



Mission Critical Server Solutions

• NVMe • SAS 3.0 • 100G/40G/25G Ethernet • 100G IB/OPA • BBP® • SRSD
Intel® Xeon® Scalable Processors (Skylake-SP)



Ultra Enterprise System - 1U

Up to highest performing 205W CPUs, full 24 DIMMs and 10 NVMe



SYS-1029U-TN10RT

Ultra Enterprise Solutions:

- Dual Intel® Xeon® Scalable processors up to 205W
- Up to 3TB ECC Reg. DDR4-2666MHz in 24 DIMMs
- 2 PCI-E 3.0 x16 (FH, 10.5" L)
- 10 Hot-swap 2.5" Drive Bays; 10 NVMe
- (4 hybrid ports - optional SAS3 via AOC)
- 2 internal M.2 (1 SATA3, 1 NVMe)
- 100G/40G/25G/10G networking options
- 1000W Redundant Titanium Level (96%+) Power Supplies

4-Node BigTwin™ - 2U

24 DIMMs, 6 NVMe/SAS3 per node, up to highest performing 205W CPUs



SYS-2029BT-HTR/HNR/HNC0R

2U BigTwin™ per node:

- Up to 3TB ECC Reg. DDR4-2666MHz in 24 DIMMs
- 6 NVMe/SAS3 hybrid drive bays
- 100G/40G/25G/10G onboard S10M options
- 2 PCI-E 3.0 x16 slots
- Dual Intel® Xeon® Scalable processors up to 205W
- 30% better thermal capacity for free air cooling

SuperBlade® - 8U

20 hot-swap DP nodes in 8U



SBI-4129P-C2N/T3N

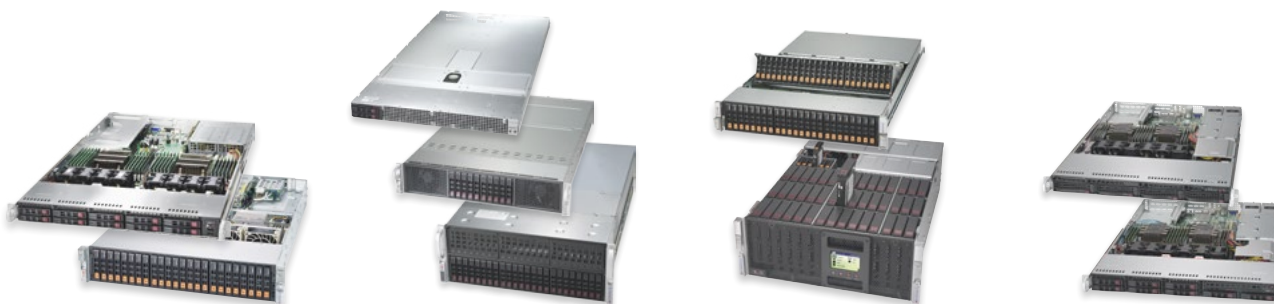
Highest Blade Density/Performance in the Industry:

- Dual Intel® Xeon® Scalable processors
- Up to 2TB ECC Reg. DDR4 memory per Node
- 2 NVMe/SAS3 or 3 SATA3 (2 can be NVMe) per Node
- Up to 5 M.2 NVMe per Node
- 100G EDR IB, 100G OPA or 25/10GbE
- 8x 2200W Titanium power (N+N or N+1 redundant)
- 8U/20 Blade and 4U/14 Blade models available

July 2017

X11 Solutions

NEW! Intel® Xeon® Scalable Processors Supported



Ultra	GPU/Coprocessor	SuperStorage	WIO
<i>All Flash Server Solutions, Up to 24 NVMe, 3TB DDR4, Titanium Level Power</i>	<i>Up to 8 GPU/Coprocessor Supported</i>	<i>Large Memory / Quad LAN / 10GbE / Up to 24 DIMMs / SAS3 / Up to 7 PCI-E Slots</i>	<i>Resource-Optimized / Feature Rich / Cost-Effective / UP WIO</i>
SYS-1029U-TN10RT SYS-1029U-TR4/TR4T/TRT/TRTP/TR2P/TR25M SYS-1029U-E1CR4/E1CR4T/E1CRT/E1CRTP/E1CRTP2/E1CR25M SYS-1019U-TN4RT/TN4R4T/TR4/TR4T/TRT/TRTP/TRTP2/TR25M SYS-2029U-TN24R4T/TR4/TR4T/TRT/TRTP/TR25M SYS-2029U-E1CR4/E1CR4T/E1CRT/E1CRTP/E1CR25M SYS-6029U-TR4/TR4T/TRT/TRTP/TR25M SYS-6029U-E1CR4/E1CR4T/E1CRT/E1CRTP/E1CR25M SYS-1029UZ-TN20R25M SYS-2029UZ-TN20R25M	SYS-1029GR-TRT/TXRT/TNRT SYS-2029GP-TR SYS-7049GP-TRT SYS-1019GP-TT SYS-5019GP-TT	SYS-2029P-ACR24H/ACR24L SYS-2029P-E1CR24H/E1CR24L SYS-6029P-E1CR12T/E1CR12H/E1CR12L SYS-6029P-E1CR16T SYS-6039P-E1CR16H/E1CR16L SYS-6049P-E1CR24H/E1CR24L SYS-6049P-E1CR36H/E1CR36L	SYS-6019P-WT/WTR/WT8 SYS-6029P-WTR/WTRT SYS-1029P-WT/WTR/WTRT SYS-1019P-WTR SYS-5029P-WTR SYS-5019P-WT/WTR



Mainstream	Embedded/Max I/O	DC0	BigTwin™/TwinPro/Twin
<i>2TB DDR4 2666MHz ECC R/LR DIMM memory in 16 DIMM slots</i>	<i>Redundant 2200W high efficiency (96%) power supplies</i>	<i>Cost-Optimized / 16 DIMMs / NVMe / 10GbBase-T / SAS3</i>	<i>3TB DDR4 2666MHz ECC R/LR DIMM memory in 24/24 DIMM slots</i>
SYS-2029P-C1R/C1RT SYS-6029P-TR/TRT SYS-7049P-TR/TRT SYS-5019P-MT/MTR	SYS-2029P-TXRT SYS-6039P-TXRT	SYS-1029P-MT/MTR SYS-6019P-MT/MTR	SYS-2029BT-HTR/HNR/HNCOR SYS-2029TP-HTR/HC1R/HCOR SYS-6029TP-HTR/HC1R/HCOR



FatTwin™	8-Way/4-Way	SuperWorkstation
<i>12 DIMM slots; Up to 1.5TB ECC RDIMM</i>	<i>Extremely large in-memory computing and mission critical applications</i>	<i>Server Grade Quality Workstations for High Performance Workloads</i>
SYS-F619P2-RT/RTN/RC0/RC1 SYS-F629P3-RTB/RTBN/RC0B/RC1B	SYS-2049U-TR4 SYS-7089P-TR4T	SYS-7039A-i SYS-7049A-T

Supermicro Supports Intel® Xeon® Scalable Processors



Supermicro has tested and validated the Intel® Xeon® scalable processors on all our X11 server, storage, blade, and serverboard platforms. The new processor features:

- 70W to 205W TDP
- Up to 28 cores per socket
- Up to 6 ch. DDR4 per CPU
- 2666 2DPC
- UPI: 2-3 channels per CPU (9.6, 10.4 GT/s)
- PCI-E: 48 lanes per CPU
- PCH: 14 SATA3, 20 PCI-E 3.0, 4x 10GbE ports

X11 BigTwin™

NEW!

Intel® Xeon® Scalable Processors Supported



- **A Full Range of Processors** Up to the highest performing 205 watt TDP CPUs
- **Maximum Memory** 3TB in 24 DIMMs per node
- **All-Flash NVMe** 24 NVMe or Hybrid NVMe/SAS3 drives
- **Double the I/O Capacity** 3 PCI-E 3.0 x16 options per node

• Redundant 2600W/2200W Titanium Level Power Supplies

• Dual Intel® Xeon® Scalable Processors Up to 205W

• 24 DIMM Slots DDR4

• 2 PCI-E 3.0 x16 LP Slots

• SIOM Slot

Rear View

• VGA Port

• Dedicated IPMI/KVM LAN Port

• 2 USB 3.0 Ports

SYS-2029BT-HTR/HNR/HNCOR

4 DP Nodes in 2U

24/12x 2.5"/3.5" NVMe/SAS3/SATA3 drives

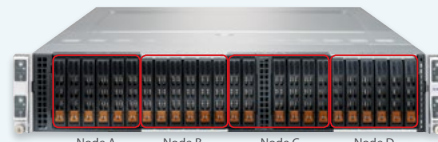


SIOM



X10DPT-B

BigTwin™



Front View - 4 DP Nodes in 2U (2.5" drives)



Front View - 2 DP Nodes in 2U (2.5" drives)

Supermicro X11 BigTwin™ Solutions



The Supermicro Twin SuperServer® systems are a family of high-density 2U hot-plug node servers available with a variety of memory capacities, HDD technologies, PCI-E alternatives, networking capabilities, and GPU support options. Support for the latest Intel® Xeon® processor Scalable family enables a host benefits to each generation of the Twin architecture with up to: 3TB of DDR4-2666MHz ECC memory in 24 DIMM slots, flexible networking options of up to 100G, and integrated Ultra Path Interconnect technology for lower latency and extra bandwidth.

The BigTwin™ is the 5th generation of the breakthrough Twin architecture which extends the compute and storage capabilities of Supermicro's 2U TwinPro and 1U Twin family SuperServer systems. Offering up to 24 All-Flash NVMe or Hybrid HDDs, 2 low-profile PCI-E x16 slots and 1 SIOM slot for maximum networking flexibility, the BigTwin is optimized for today's demanded IT requirements.

The Supermicro Twin Family represents a revolution in Green Computing designed to support customers' critical applications and also reduce Data Center TCO to help preserve the environment. Due to their shared components, the Twin Family improves cost-effectiveness and reliability over rackmount servers, while their modular architecture enables flexible configuration and easy maintenance.

X11 Ultra

NEW! Intel® Xeon® Scalable Processors Supported



- **All-Flash Support** Up to 24 NVMe hot-swap 2.5" Drives in 2U
- **A Full Range of Processors** Up to 205 watt TDP CPUs
- **Full Memory Support** 3TB in 24 DIMMs
- **High Flexibility** Variety of networking options

1U Ultra

SYS-1029U: 2.5" Drive Bays

- TR4: 4x GbE
- TR4T: 4x 10Gbase-T
- TRT: 2x 10Gbase-T
- TRTP: 2x 10GSFP+
- TR2TP: 2x GbE, 2 10GSFP+
- TR25M: 2x Mellanox 25GbE
- TN10RT: 2x 10Gbase-T, 10 NVMe



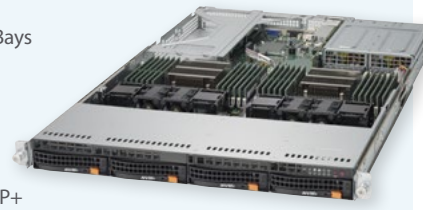
SYS-1029U-TN10RT

10 NVMe | 24 DDR4 DIMMs | 2x 10GBase-T
Titanium Level, 96% Efficiency Power Supplies



SYS-6019U: 3.5" Drive Bays

- TR4: 4x GbE
- TR4T: 4x 10Gbase-T
- TRT: 2x 10Gbase-T
- TRTP: 2x 10GSFP+
- TR2TP: 2x GbE, 2 10GSFP+
- TR25M: 2x Mellanox 25GbE
- TN4RT: 2x 10Gbase-T, 4 NVMe



SYS-6019U-TN4RT

4 NVMe | 24 DDR4 DIMMs | 4x 10GBase-T
Titanium Level, 96% Efficiency Power Supplies



2U Ultra

SYS-2029U: 2.5" Drive Bays

- TR4: 4x GbE
- TR4T: 4x 10Gbase-T
- TRT: 2x 10Gbase-T
- TRTP: 2x 10GSFP+
- TR2TP: 2x GbE, 2 10GSFP+
- TR25M: 2x Mellanox 25GbE
- TN24R4T: 4x 10Gbase-T, 24 NVMe



SYS-2029U-TN24R4T

24 NVMe | 24 DDR4 DIMMs | 4x 10GBase-T
Titanium Level, 96% Efficiency Power Supplies



SYS-6029U: 3.5" Drive Bays

- TR4: 4x GbE
- TR4T: 4x 10Gbase-T
- TRT: 2x 10Gbase-T
- TRTP: 2x 10GSFP+
- TR2T: 2x GbE, 2 10GSFP+
- TR25M: 2x Mellanox 25GbE



SYS-6029U-TR25M

24 DDR4 DIMMs | 2x 25G
Titanium Level, 96% Efficiency Power Supplies



Highest Performance Ultra SuperServers



Supermicro Ultra SuperServers are designed to deliver the highest performance, flexibility, scalability and serviceability to demanding IT environments, and to power mission-critical Enterprise workloads.

With support for the latest Intel® Xeon® processor Scalable family CPUs which boast incredible benefits over previous generations. Brand new advancements in Intel Xeon architecture include Intel UltraPath Interconnect (UPI) and Cross Bar technologies which provide direct communication between two CPUs in a dual socket server to catapult performance and dramatically reduce latency.

Available in 1U and 2U form factors, Ultra SuperServers support up to: 3TB DDR4 2666MHz in 24 DIMMs; SATA3 with optional SAS3 and NVMe support for increased storage bandwidth; a variety of Ultra Riser options including built-in 1G, 10Gbase-T, 10G SFP+, 40G and 25G Ethernet options; support for add-on SAS3 HW/SW RAID controllers and additional PCI-E 3.0 slots. The range is the perfect fit for diverse workloads and applications and can be easily reconfigured for multiple Enterprise and Data Center applications in Virtualization, Big Data, Analytics and Cloud Computing.

X11 SuperBlade®

NEW!

Intel® Xeon® Scalable Processors Supported



- UP, DP and MP platforms supporting new generation Intel® Xeon® Scalable processors
- **100G** EDR InfiniBand, **100G** Intel® Omni-Path Architecture or 1G, 10G, **25G** Ethernet
- Hot-swap U.2 NVMe SSD and HW SAS3 RAID support
- Redundant 2200W **Titanium Level** (96%+ efficiency) digital power supplies
- 1200W Battery Backup Power (**BBP**®) modules



8U SuperBlade



BBP Module®



4U SuperBlade

New Generation SuperBlade® Servers



Dual Intel® Xeon® Scalable Processors with NVMe

4U DP with 10G, SATA3



SBI-4429P-T2N

8U DP with 100G*, SAS3



SBI-4129P-C2N

8U DP with 100G*, SATA3



SBI-4129P-T3N

Quad Intel® Xeon® Scalable Processors with NVMe

MP with 100G*, 8 NVMe/SAS3



SBI-8149P-C4N

MP with 100G*, 8 NVMe/SATA3



SBI-8149P-T8N

NVMe (U.2/M.2)

NEW! Intel® Xeon® Scalable Processors Supported



• RAID support • Boot enabled • Hot-swappable

Highest Performance • Up to **12x** the bandwidth of SAS/SATA 3.0 (12/6Gbps) SSDs

• Over **7x** Lower Latency than **SAS 3.0** (12Gbps) SSDs • Widest Variety of Serverboards and Optimized Chassis Available

All Flash Server Solutions



BigTwin™
4 Node in 2U, 24 NVMe
SYS-2029BT-HN(CO)R



SuperBlade®
SBI-4429P-T2N
SBI-4129P-C2N/T3N
SBI-4419P-C2N/T2N
SBI-4119P-C2N/T2N
SBI-4428R-T2N
SBI-8149P-C4N/T8N



1U Ultra
1U 4 NVMe 3.5"
SYS-6019U-TN4RT
SYS-6019U-TN4R4T



1U Ultra
1U 10 NVMe 2.5"
SYS-1029U-TN10RT
SYS-1029U-TN10RT



1U Ultra
1U 20 NVMe 1.8"
SYS-1029UZ-TN20R25M



2U Ultra
2U 24 NVMe
SYS-2029U-TN24R4T



2U Ultra
2U 20 NVMe 2.5",
4 SAS3/SATA3 2.5"
SYS-2029UZ-TN20R25M



FatTwin™
SYS-F619P2-RTN
SYS-F629P3-RTBN

NVMe Serverboards



Ultra X11DPU-Z+
4 Ports NVMe
24 DIMMs
Networking options
Provide via Ultra Riser



Ultra X11DPU
4 Ports NVMe
24 DIMMs
Networking options
Provide via Ultra Riser



Datacenter Optimized X11DDW-NT
4 Ports NVMe
2x 10GBase-T, 12 DIMMs,
1 PCI-E 3.0 x32 LHR,
1 PCI-E 3.0 x16 RHR
1 AOM, 1 M.2



Mainstream X11DPi-N (T)
2 ports NVMe
2x 10GBase-T, 16 DIMMs,
4 PCI-E 3.0 x16,
2 PCI-E 3.0 x8, 1 M.2



Workstation X11DAi-N
2 Ports NVMe
16 DIMMs, 2x GbE,
4 PCI-E 3.0 x16, 2 PCI-E 3.0 x8
1 M.2, 7.1 HD Audio

Large Bandwidth and Latency Improvements with True Hot-Swap Capability



The primary benefits of Supermicro SuperServer® solutions with NVMe support include improved performance (throughput and latency), hot-swap capability, ability to support many true hot-swap NVMe drives per server, cost-effectiveness compared to add-on card based solutions, and availability of many cost-optimized models from which to choose.

Supermicro is the first to market with true hot-swap support for NVMe SSD drives. This feature allows easy addition of storage capacity through the addition of SSDs, the replacement of existing SSDs with higher capacity units, or replacement of failed drives, while the server system is in operation. Additionally, the hot-swap feature protects against surprise removals, random device failures, or operator errors. Software hardening from Supermicro on its NVMe server product line provides an excellent protection against these all too-common data center issues.

NVMe Now

NEW! Intel® Xeon® Scalable Processors Supported



Higher Performance

Up to 12x higher IOPS and 7x lower latency than SAS3 SSDs

Lower Power

Up to 15x less wattage per IOPS than SAS3 SSDs

Reduced Cost

No SAS HBA/AOC required, less CAPEX and power consumption

Efficient & Scalable

Streamlined protocol & command set, fewer clock cycles per I/O

Optimized for Next Generation NVM

New storage stack with lower latency and less overhead



Supermicro Has The Best NVMe Solutions (X11 and X10)

Ultra

- 1U Ultra (All-Flash NVMe Supported): 2/4/10/20 Hot-swap U.2 NVMe Drives Up to 8M IOPS
- 2U Ultra (All-Flash NVMe Supported): 4/20/24 Hot-swap U.2 NVMe Drives Up to 13M IOPS

DCO/WIO

- 1U DCO / WIO: 2 Hot-swap U.2 NVMe Drives
- 2U DCO / WIO: 4 Hot-swap U.2 NVMe Drives

Twin 2U Architecture

- 2U TwinPro™: 4 Hot-swap U.2 NVMe Drives per Node
- 2U BigTwin™ (All-Flash NVMe Supported): 6 Hot-swap U.2 NVMe Drives per Node

FatTwin™

- 4U FatTwin™: 2 Hot-swap U.2 NVMe Drives per Node

MicroCloud

- 3U MicroCloud: 4 M.2 or 2 Hot-swap U.2 NVMe Drives per Node

MicroBlade

- 3U/6U MicroBlade: 2 M.2 NVMe Drives per Node

SuperBlade®

- 7U SuperBlade®: 3 Hot-swap U.2 NVMe Drives per Node

8-Way SuperServer®

- 7U 8-Way: 16 Hot-swap U.2 NVMe Drives

SuperStorage

- 2U SuperStorage (All-Flash NVMe Supported): 24/48 Hot-swap U.2 NVMe Drives
- 4U SuperStorage: 6 Hot-swap U.2 NVMe Drives

Storage Bridge Bay

- 2U Super Bridge Bay (All-Flash NVMe Supported): 20/40 Hot-swap Dual-Port U.2 NVMe Drives

BigTwin™

- 2U 4-Node BigTwin™: 6 Hot-swap U.2 NVMe Drives per Node
- 2U 2-Node BigTwin™: 12 Hot-swap U.2 NVMe Drives per Node

Massively Improved Throughput and IOPS with Lowered Latency, Power Consumption and CAPEX



NVMe Express® (NVMe™) is an optimized, high-performance and scalable host controller interface architected from the ground up to exploit the full potential of non-volatile memory (NVM) technologies, more specifically PCI Express® -based solid-state storage. NVMe specifies hardware and software protocols that are designed to provide efficient access to storage subsystems built with non-volatile memory, from today's NAND flash technology to future higher performing, persistent memory technologies, focusing on bandwidth, IOPS and latency.

Supermicro's NVMe SSD Systems with Intel Optane™ SSDs for the Data Center enable breakthrough performance compared to traditional NAND based SSDs, giving top tier customers a new memory deployment strategy that provides better write performance and latency than existing NVMe NAND SSD solutions

Supermicro offers the widest variety of server and storage systems with NVMe support, and is the first-to-market with All-Flash and hot-swap capability for U.2 NVMe drives. This feature allows easy addition of storage capacity through front access 2.5" drive bays, the replacement of existing SSDs with higher capacity units, or replacement of failed drives. Additionally, the hot-swap feature protects against surprise removals, random device failures, or operator errors. Software hardening from Supermicro on its NVMe server product line provides an excellent protection against these all too-common data center issues.

https://supermicro.com/white_paper/white_paper_NVMe2.pdf

SUPERMICRO® SuperServer® Solutions - July 2017

X11 SuperStorage

NEW!

Intel® Xeon® Scalable
Processors Supported



New! Highest Performance and Storage Density

Supports up to: • 56 Cores per Server • 205W TDP CPUs • 3TB DDR4-2666MHz in 24 DIMMs

• NVMe SAS 3.0 • Quad 10G Base-T LAN • Redundant **Titanium Level** Power Supplies

Top-Loading



SSG-6049P-E1CR45H/L
SSG-6049P-E1CR60H/L
SSG-6048R-E1CR90L

Simply Double



SSG-2029P-E1CR48H/L
SSG-2029P-NR48L
SSG-6029P-E1CR24H/L

SBB



SSG-2029P-DE2CR24L
SSG-2029P-DN2R24L
SSG-6049P-DE2CR24L

General Purpose



1U

SSG-6019P-ACR12L



2U

SSG-2029P-ACR24H/L
SSG-2029P-E1CR24H/L
SSG-6029P-E1CR12T
SSG-6029P-E1CR12H/L
SSG-6029P-E1CR16T



3U

SSG-6039P-E1CR16H/L



4U

SSG-6049P-E1CR24H/L
SSG-6049P-E1CR36H/L

High Performance Storage Servers

The Foundation of a Flexible and Efficient Enterprise



New generation X11 Supermicro SuperStorage systems feature the latest Intel® Xeon® Processor Scalable Family, delivering the performance to drive Software Defined Storage to the next level. The Supermicro SuperStorage systems offer a no compromise storage platform with flexible market entry points from 2U, 3U, and 4U form factors using 2.5" or 3.5" drive bays For SAS3/SATA3 and NVMe storage media. SuperStorage servers support up to: 3TB DDR4 2666MHz in 24 DIMM, PCI-E 3.0 slots, NVMe, flexible networking options such as Supermicro's SIOM cards and IPMI 2.0 with KVM and Redfish Support on a dedicated LAN port.

With Industry leading software compatibility Supermicro SuperStorage solutions present a number of key benefits to customers working with CPU and Capacity Intensive Storage applications, from the lowest-latency flash to massive scalability, there is an optimized model for every storage workload.

X11 GPU/Coprocessor

NEW!

Intel® Xeon® Scalable Processors Supported



4/6/8 GPU/Coprocessors in 1U/2U/4U

Supports up to: • 56 Cores per Server • 205W TDP CPUs • 3TB DDR4-2666MHz in 24 DIMMs

• 10GBase-T • Redundant Titanium Level (96%) Power Supplies

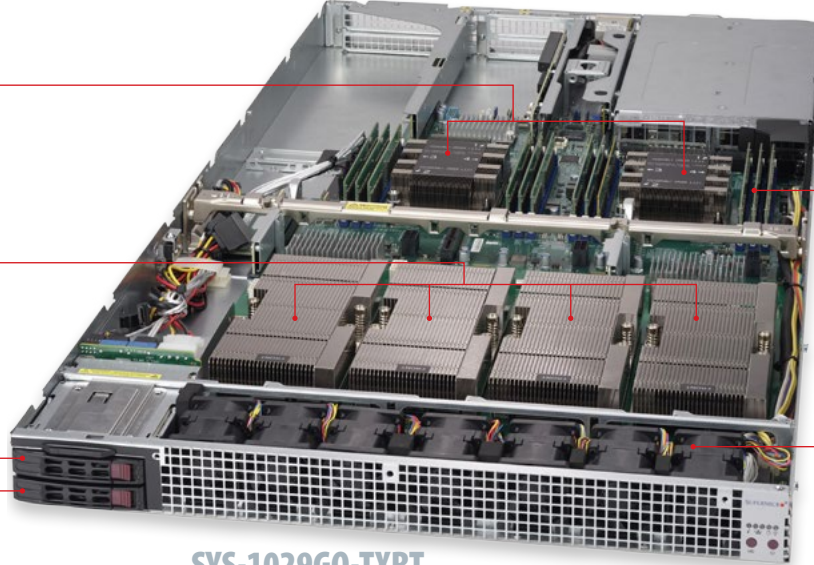
• Dual Intel® Xeon® Scalable Processors up to 205W

• 4 NVIDIA P100 GPUs

• 2x 2.5" Hot-swap SAS3/SATA3 Drive Bays

• 12 DIMM Slots DDR4

• 7 Internal Fans



SYS-1029GQ-TXRT

4 GPU in 1U

X11 GPU Server Portfolio



Model: SYS-1029GQ-TRT/TNRT/TXRT

Model: SYS-1029GP-TRT

Model: SYS-1019GP-TT/5019GP-TT

Ratio GPU : CPU

4:2 (1U)

3:2 (1U)

2:1 (1U)



Model: SYS-

Model: SYS-4029GP-TRT

Ratio GPU : CPU

6:2 (2U)

8:2 (4U)



Model: SYS-4029GP-TRT2

Model: SYS-

Model: SYS-7049GP-TRT

Ratio GPU : CPU

8:2 (4U)

8:2 (4U)

4:2 (4U)

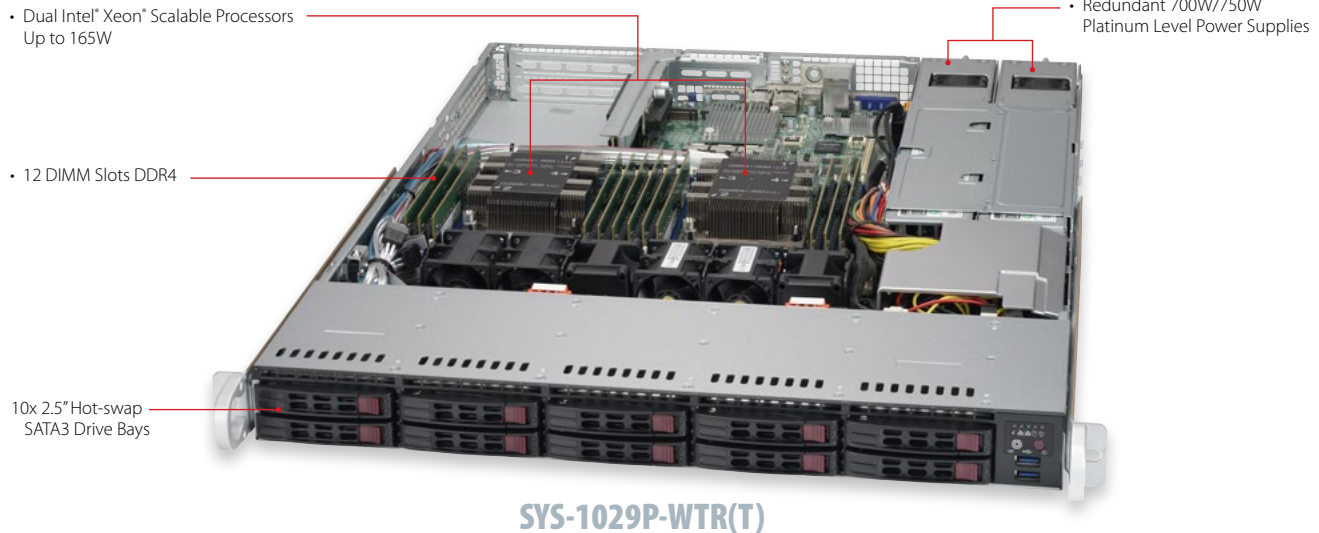
X11 WIO

NEW!

Intel® Xeon® Scalable
Processors Supported



- **A Full Range of Processors** Up to the highest performing 205 watt TDP CPUs
- **Fully Optimized** Resource and space optimized to reduce data center footprints
- **Feature-Rich WIO** serverboards are designed to enable full use of all PCI-E lanes for flexibility
- **Power Efficient** Platinum/Titanium Level (96%) Power Supplies



X11 WIO SuperServers



Densest I/O for Diverse Applications

Supermicro WIO SuperServer® systems offer a wide range of I/O options to deliver truly optimized systems for specific requirements. Users can optimize the storage and networking alternatives to accelerate performance, increase efficiency and find the perfect fit for their applications. In addition to enabling customizable configurations and optimization for multiple application requirements, Supermicro WIO SuperServers also provide attractive cost advantages and investment protection.

The Supermicro WIO SuperServer® product family supports up to: 1.5TB ECC DDR4-2666MHz memory in 12 DIMM slots, 3/6 Add-on Cards in 1U/2U, 14 SATA 3.0 (6Gbps) drive bays, hot-swap 2.5" or 3.5" drive bays, SATA3 and NVMe hybrid ports, optional NVMe drives, LAN options up to 2x 10GBase-T or 2x 1GbE ports, redundant Platinum(95%)/Titanium (96%) Level power supplies, integrated IPMI 2.0 with KVM over dedicated LAN, and dual or single Intel® Xeon® Scalable Processors up to 28 cores and 205W TDP. Supermicro WIO SuperServers are optimized for General Purpose, ERP/MRP, and Network and Security Appliance Applications.

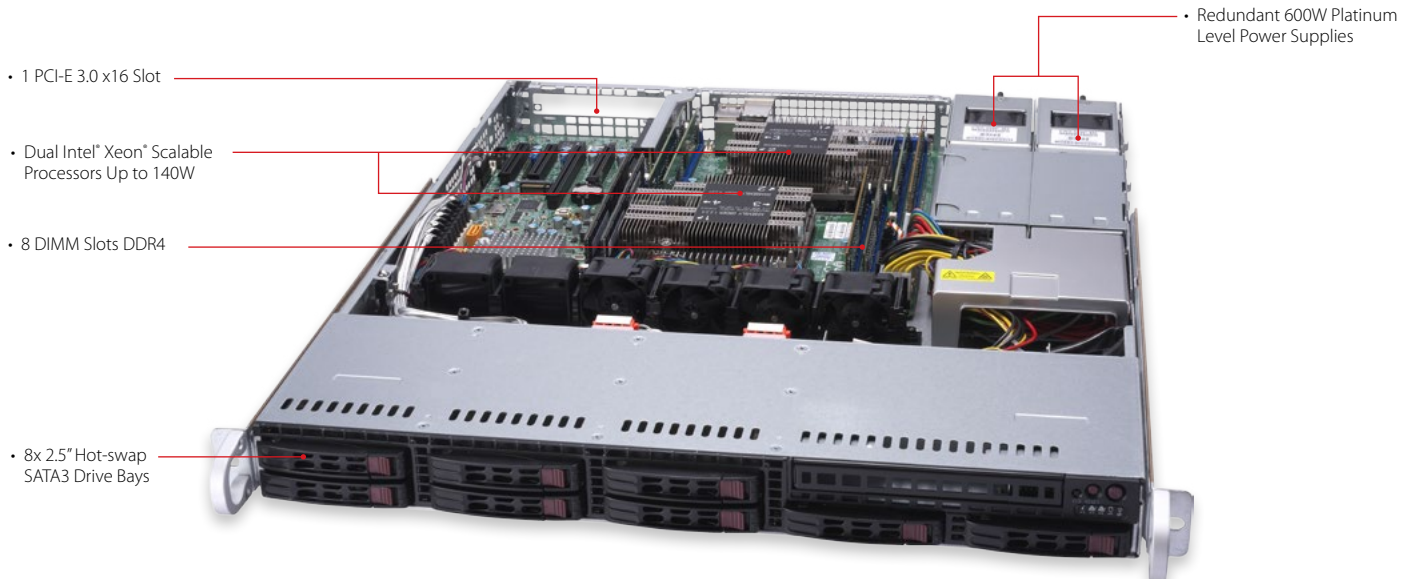
X11 DCO

NEW!

**Intel® Xeon® Scalable
Processors Supported**

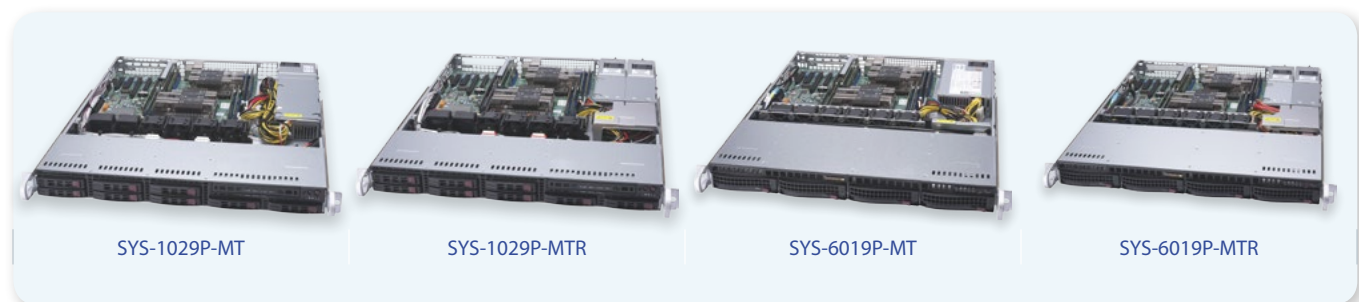


- **A Full Range of Processors** Up to 140 watt TDP CPUs
- **Temperature Optimized Operation** From 0-47°C and leverage data center free air cooling environments
- **Power Efficient Platinum Level (96%) Power Supplies**
- **Multiple SKUs Available**



SYS-1029P-MTR

X11 DCO SuperServers



Best Cooling for Highest Data Center Power Efficiency

The new generation X11 Supermicro Data Center Optimized SuperServer® product family is designed to deliver the best performance-per-watt and per-dollar to the modern data center. Improved thermal architecture that utilizes power efficient components, offset processor placement to help eliminate CPU preheating, and highest-efficiency power supplies to allow higher operating temperatures, enable this product line to perfectly align with complex requirements and complement energy efficiency data center design in order to achieve lower Total Cost of Ownership (TCO).

Expert Supermicro server design, high quality components and support for the latest Intel® Xeon® Processor Scalable Family CPUs ensure the highest performing SuperServers for your data center deployments. Each server supports up to: 1TB ECC DDR4-2666MHz memory in 8 DIMM slots, 1 standard AOC, 8 SATA 3.0 (6Gbps) drive bays with Intel® C612 controller and up to 2x 1GbE.

X11 Mainstream

NEW!

Intel® Xeon® Scalable Processors Supported



Wide Variety of Servers for Entry Level or Volume Selections Supporting Mainstream Server Applications

- Variety of SKUs available
- Mainstream Application Optimized
- Redundant 2200W (96%) Power Supplies
- Highest Density and Flexibility



Mainstream SuperServers



Widest Server Selections for SMB and Enterprise IT

The Mainstream Application Optimized SuperServer® product family from Supermicro is a series of servers designed for entry level or volume selections. Enterprise IT Managers can choose the exact model for their applications, with a precise set of integrated features needed for their applications.

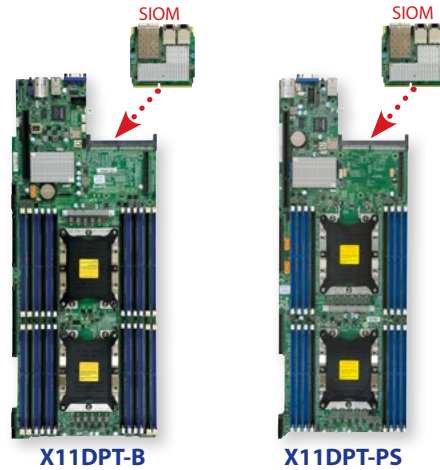
The new generation of X11 Mainstream SuperServers supports up to: 2TB LRDIMM or RDIMM DDR4-2666MHz memory in 16 DIMM slots, 6 PCI-E 3.0 slots, 10 SATA 3.0 (6Gbps) ports with Intel® C620 controller, LAN supports 2x 10GBase-T or 2x 1GbE ports, redundant Platinum Level (94%+) or Titanium Level (96%) power supplies, integrated IPMI 2.0 with KVM over dedicated LAN, and dual or single Socket P (LGA 3647) Intel® Xeon® Processor Scalable Family; UPI up to 10.4GT/s, Support CPU TDP 45-205W with IVR. This range enables customers to save significant amounts on CAPEX/OPEX thanks to Supermicro energy-efficient server design.

SIOM (Super I/O Module)

Most Flexible, Cost-optimized Server I/O

NEW!

Intel® Xeon® Scalable
Processors Supported



X11DPT-B

X11DPT-PS

SIOM Networking Adapters



Model	AOC-MGP-i2	AOC-MGP-i4	AOC-MTGN-i2S	AOC-MTG-i4S	AOC-MTG-i2T
Type	SIOM	SIOM	SIOM	SIOM	SIOM
Description	Dual-port GbE	Quad-port GbE	Dual-port 10GbE	Quad-port 10GbE	Dual-port 10GbE
Port	2 RJ45 ports	4 RJ45 ports	2 SFP+ ports	4 SFP+ ports	2 RJ45 ports
Speed	1Gb/port	1Gb/port	10Gb/port	10Gb/port	10Gb/port
Controller	Intel® i350	Intel® i350	Intel® 82599ES	Intel® XL710	Intel® X550
Dimension (LxW) (without end brackets)	3.622" x 3.428" (9.2 x 8.708cm)	3.622" x 3.428" (9.2 x 8.708cm)	3.622" x 3.428" (9.2 x 8.708cm)	3.622" x 3.428" (9.2 x 8.708cm)	3.622" x 3.428" (9.2 x 8.708cm)
Compatible Motherboards	Supermicro® Motherboards with SIOM slot	Supermicro® Motherboards with SIOM slot	Supermicro® Motherboards with SIOM slot	Supermicro® Motherboards with SIOM slot	Supermicro® Motherboards with SIOM slot
Compatible Servers	Supermicro® Servers with SIOM slot	Supermicro® Servers with SIOM slot	Supermicro® Servers with SIOM slot	Supermicro® Servers with SIOM slot	Supermicro® Servers with SIOM slot

SIOM Networking Adapters



Model	AOC-MTG-i4T	AOC-MH25G-m2S2T	AOC-MHIBF-m2Q2G	AOC-MHIBF-m1Q2G	AOC-MHFI-i1C
Type	SIOM	SIOM	SIOM	SIOM	SIOM
Description	Quad-port 10GbE	Dual-port 25GbE & Dual-port 10GbE	Dual-port IB FDR & Dual-port GbE	Single-port IB FDR & Dual-port GbE	Single-port Host Fabric Interface
Port	4 RJ45 ports	2 SFP28 & 2 RJ45 ports	2 QSFP & 2 RJ45 ports	1 QSFP & 2 RJ45 ports	1 QSFP28 port
Speed	10Gb/port	25Gb/port, 10Gb/port	56Gb/port, 1Gb/port	56Gb/port, 1Gb/port	100Gb/port
Controller	Intel® X550	Mellanox® ConnectX-4 Lx EN Intel® X550	Mellanox® ConnectX-3 Pro Intel® i350	Mellanox® ConnectX-3 Pro Intel® i350	Intel® Omni Path HFI ASIC
Dimension (LxW) (without end brackets)	3.622" x 3.428" (9.2 x 8.708cm)	3.622" x 3.428" (9.2 x 8.708cm)	3.622" x 3.428" (9.2 x 8.708cm)	3.622" x 3.428" (9.2 x 8.708cm)	3.622" x 3.428" (9.2 x 8.708cm)
Compatible Motherboards	Supermicro® Motherboards with SIOM slot	Supermicro® Motherboards with SIOM slot	Supermicro® Motherboards with SIOM slot	Supermicro® Motherboards with SIOM slot	Supermicro® Motherboards with SIOM slot
Compatible Servers	Supermicro® Servers with SIOM slot	Supermicro® Servers with SIOM slot	Supermicro® Servers with SIOM slot	Supermicro® Servers with SIOM slot	Supermicro® Servers with SIOM slot

Supported Server and Storage Systems



2U TwinPro²
4 DP Nodes in 2U
12x 3.5" or 24x 2.5" Bays

2U SuperStorage
Simply Double
24x 3.5" Bays Server

2U SuperStorage
Simply Double
48x 2.5" Bays Server

4U SuperStorage
45 Bay Hyper-Scale
Storage Server

4U SuperStorage
60 Bay Hyper-Scale
Storage Server

4U SuperStorage
90 Bay Hyper-Scale
Storage Server

Supermicro® Global SKUs

Supermicro® provides full integration, fulfillment and support services for customers in the Americas, Asia-Pacific (APAC), Europe, Middle East and Africa (EMEA) regions. Logistics and support for each region is processed through advanced operations centers in San Jose, CA (HQ), Taiwan (TW) and the Netherlands (NL). Products listed below are available in all of our branches across the globe.

Supermicro's global operations centers offer customers TTM advantages with streamlined processing, accelerated delivery as well as cost savings with reduced shipping charges and dedicated support within local time zones. Consult with your local Supermicro Sales Representative to optimize fulfillment and support of your Supermicro products through our worldwide logistics and service centers.



SYS-1028U-TR(4/4T/T)+	SYS-6018R-MT(R)	SYS-5019S-M	SYS-2027TR-H71RF
SYS-6018U-TR(4/4T/T/TP)+	SYS-6018R-TDW	SYS-5019S-MR	SYS-2027TR-HTRF
SYS-2028U-TR(4/4T/T/TP)+	SYS-6018R-WTR(T)	SYS-5019S-WR	SYS-2027GR-TRF
SYS-6028U-TR(4/4T/T/TP)+	SYS-6028R-TR	SYS-5015A-EHF-D525	SYS-6027R-TRF
SYS-5018D-MTF	SYS-6028R-WTR(T)	SYS-5017C-MTF	SYS-7037A-I
SYS-1028GR-TR	SYS-6028TP-HC1R/HC1TR/HC1FR	SYS-1027GR-TRF	SYS-7047GR-TRF
SYS-1028R-TDW	SYS-6028TP-HTR/HTTR/HTFR	SYS-1027R-WRF	SYS-7046GT-TRF
SYS-1028R-WTR(T)	SYS-6028TR-D72R/DTR	SYS-6016T-NT(R)F	
SYS-2028GR-TR	SYS-6028TR-HTR/HTFR	SYS-6016T-URF	FatTwin™
SYS-2028TP-DNCR	SYS-7038A-I	SYS-6017R-NTF	SYS-F618R3-FT
SYS-2028TP-DNCTR	SYS-7048A-T	SYS-6017R-TDF	SYS-F628R3-R72B+
SYS-2028TP-DNCFR	SYS-7048A-T	SYS-6017R-WRF	SYS-F628R3-RTB+
SYS-2028TP-DTR/DTTR/DTFR	SYS-5018-M	SSG-6027R-E1R12N	
SYS-2028TP-HC1R/HC1TR/HC1FR	SYS-5018R-MR	SSG-6047R-E1R36N	
SYS-2028TP-HTR/HTTR/HTFR	SYS-5018R-WR	SYS-6026TT-HTRF	
SYS-2028TR-H72R/H72FR	SYS-5019S-L	SYS-6027TR-HTRF	

Global SKUs are identified by the Global SKU logo (see above) in this document, and Global SKU part numbers are highlighted in green text throughout.

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Rackmount

X11 Generation: Systems - Intel® Xeon® Scalable Processors Supported

Ultra

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1029U-E1CR4/E1CR4T/E1CRT/E1CRTP/E1CRTP2/E1CR25M, 6019U-TN4RT/TN4R4T	20
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2029U-TN24R4T, 2029UZ-TN20R25M	28
2029U-TR4/TR4T/TRT/TRTP/TR25M, 2029U-E1CR4/E1CR4T/E1CRT/E1CRTP/E1CR25M,	29
6029U-TR4/TR4T/TRT/TRTP/TR25M, 6029U-E1CR4/E1CR4T/E1CRT/E1CRTP/E1CR25M	30

GPU/Coprocessor Supercomputing

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Data Center-Optimized

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6029P-E1CR16T	35
6039P-E1CR16H/E1CR16L	36
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1028U-TR4T+, 6018U-TR4+, 6018U-TRT+, 6018U-TR4T+, 6018U-TRTP+	42
2028U-TN24RT+, 2028U-E1CNRT+, 2028U-E1CNR4T+	43
6028U-E1CNRT+, 6028U-E1CNR4T+, 2028U-TNRT+, 2028U-TNR4T+, 6028U-TNRT+, 6028U-TNR4T+	44
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2028GR-TR/TRT, 2028GR-TRH/TRHT	71
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X11 Generation Systems- Intel® Xeon® Processor E3-1200 v5 product family support

UP 1U Servers

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X11 Generation Systems- 6th Generation Intel® Core™ i7 Processor, Intel® Core™ i5 Processor, Intel® Core™ i3 Processor product families support

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X10 Generation Systems

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X11 Generation Systems- Intel® Xeon® Processor D product family support

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X10 Generation Systems- Intel® Atom® Processor, Pentium® Processor, Celeron® Processor product families support

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X10 Generation Systems- Intel® Xeon® Processor D-1500 product family support

Embedded Systems: 5018D-MHR7N4P, 5018D-LN4T	63
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5028D-TN4T	83

X9 1U SuperServer®

Mainstream, Single 8-core Intel® Xeon® Processor E3-1200 v3 processor series, Intel® C224 chipset

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5018D-MF, 1018D-73MTF	66

Embedded, Single Intel® Atom® processor series

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Cold Storage SuperServer, Intel® Atom® processor C2750

5018A-A(R/S)12L	69
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X9 2U SuperServer® and SuperStorage Systems

New! EX-DP, 32 DIMMs, Dual 15-Core Intel® Xeon® Processor E7-8800 v2, Intel® Xeon® Processor 4800 v2, Intel® Xeon® Processor 2800 v2 product families, Intel® C602 chipset with QPI up to 8GT/s

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JBOD Storage Solutions

927R-E2CJB, 937R-E2CJB, 947-E2CJB, 946ED-R2KJBOD, 847DE1C-R2K04JBOD, 847DE2C-R2K04JBOD, 946SE1C-R1K66JBOD, 946SE2C-R1K66JBOD, 847E1C-R1K28JBOD, 847E2C-R1K28JBOD, 846E1C-R1K03JBOD, 846E2C-R1K03JBOD, 417E1C-R1K23JBOD, 417E2C-R1K23JBOD, 826SE1C-R1K02JBOD, 826BE1C-R741JBOD, 826BE2C-R741JBOD, 216BE1C-R741JBOD, 216BE2C-R741JBOD	96-99
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BigTwin™ / TwinPro™/Twin Systems

BigTwin Skylake-SP - Intel® Xeon® Scalable Processors Supported

2029BT-HTR, 2029BT-HNR, 2029BT-HNCOR	101
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X11 Generation TwinPro™ Systems - Intel® Xeon® Processor E5-2600 v4/v3 product families support

2029TP-HTR/HC1R/HCOR, 6029TP-HTR/HC1R/HCOR	102
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X10 Generation TwinPro™ Systems - Intel® Xeon® Processor E5-2600 v4/v3 product families support

BigTwin X10 Generation TwinPro™ Systems - Intel® Xeon® Processor E5-2600 v4 product families support

2028BT-HTR+, 2028BT-HNR+, 2028BT-HNC1R+/HNCOR+, 6028BT-HNCOR+	103
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1U TwinPro X10 Generation TwinPro™ Systems - Intel® Xeon® Processor E5-2600 v4/v3 product families support

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2U TwinPro²™ with SIOM support

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6028TP-HTR-SIOM, 6028TP-HC1R-SIOM, 6028TP-HCOR-SIOM	108

2U TwinPro²™ - 4 hot-swap nodes in 2U w/ 2.5" or 3.5" HDDs, New!

2028TP-HC1R/HC1TR/HC1FR, 2028TP-HCOR/HCOTR/HCOFR, 2028TP-HTR/HTTR/HTFR	109
6028TP-HC1R/HC1TR/HC1FR, 6028TP-HCOR/HCOTR/HCOFR, 6028TP-HTR/HTTR/HTFR	110

2U TwinPro™ - 2 hot-swap nodes in 2U w/ up to 4 NVMe per Node

2028TP-DNCR/DNCTR/DNCFR, 6028TP-DNCR/DNCTR/DNCFR	111
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2U TwinPro™ - 2 hot-swap nodes in 2U w/ 2.5" HDDs

2028TP-DECR/DECFR/DECTR, 2028TP-DC1R/DC1TR/DC1FR, 2028TP-DCOR/DCOTR/DCOFR, 2028TP-DTR/DTTR/DTFR	112
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2U Twin²™ - Cost-Optimized, 4 hot-swap nodes in 2U

6028TR-HTR/HTFR, 2028TR-H72R/H72FR/HTR/HTFR	114
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1U Twin

6018TR-T/TF, 1028TR-T/TF	115
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FatTwin™ Systems

New! X11 Generation FatTwin™ Systems - Intel® Xeon® Scalable Processors Supported

F619P2-RT/RTN/RCO/RC1, F629P3-RTB/RTBN/RCOB/RC1B	117
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X10 Generation FatTwin™ Systems – Intel® Xeon® Processor E5-2600 v4/v3 product families support	
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Hadoop & 2-Node GPU: F648G2 -FT+/FCO+/FTPT+/FCOPT+, F618H6 -FT+/FTPT+	122
8-Node Rear I/O: F618R2 -RTN+/RTPTN+, F618R2 -RT+/RTPT+, F618R2 -RCO+/RCOPT+	123
8-Node Rear I/O: F618R2 -RC1+/RC1PT+, F618R2 -R72+/R72PT+	124
4-Node Rear I/O: F628R3 -RTB+/RTBPT+/RTBPTN+/RTBN+, F628R3 -RCOB+/RC1B+/RCOBPT+/RC1BPT+, F628R3 -R72B+/R72BPT+	125
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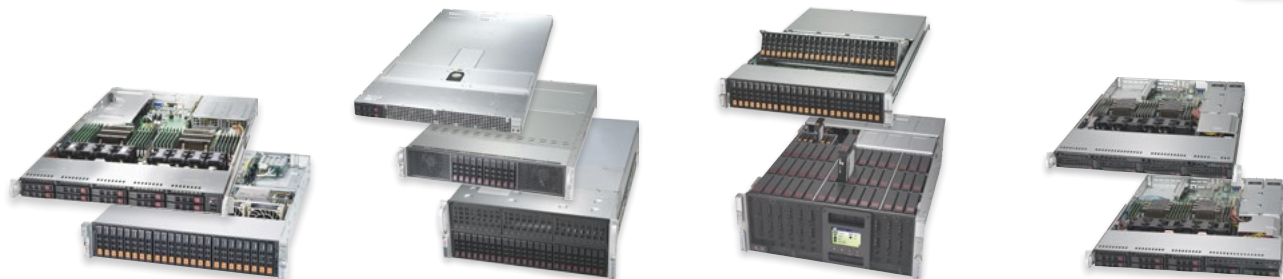
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X11 Solutions



Intel® Xeon® Scalable Processors Supported



Ultra	GPU®/Coprocessor	SuperStorage	WIO
<i>All Flash Server Solutions, Up to 24 NVMe, 3TB DDR4, Titanium Level Power</i>	<i>Up to 8 GPU®/Coprocessor Supported</i>	<i>Large Memory / Quad LAN / 10GbE / Up to 24 DIMMs / SAS3 / Up to 7 PCI-E Slots</i>	<i>Resource-Optimized / Feature Rich / Cost-Effective / UP WIO</i>
SYS-1029U-TN10RT SYS-1029U-TR4/TR4T/TRT/TRTP/TRTP2/TR25M SYS-1029U-E1CR4/E1CR4T/E1CRT/E1CRTP/E1CRTP2/E1CR25M SYS-6019U-TN4RT/TN4R4T/TR4/TR4T/TRT/TRTP/TRTP2/TR25M SYS-2029U-TN24R4T/TR4/TR4T/TRT/TRTP/TRTP2/TR25M SYS-2029U-E1CR4/E1CR4T/E1CRT/E1CRTP/E1CR25M SYS-6029U-TR4/TR4T/TRT/TRTP/TRTP2/TR25M SYS-6029U-E1CR4/E1CR4T/E1CRT/E1CRTP/E1CR25M SYS-1029UZ-TN20R25T SYS-2029UZ-TN20R25T	SYS-1029GR-TRT/TXRT/TNRT SYS-2029GP-TR SYS-7049GP-TRT SYS-1019GP-TT SYS-5019GP-TT	SYS-2029P-ACR24H/ACR24L SYS-2029P-E1CR24H/E1CR24L SYS-6029P-E1CR12T/E1CR12H/E1CR12L SYS-6029P-E1CR16T SYS-6039P-E1CR16H/E1CR16L SYS-6049P-E1CR24H/E1CR24L SYS-6049P-E1CR36H/E1CR36L	SYS-6019P-WT/WTR/WT8 SYS-6029P-WTR/WTRT SYS-1029P-WT/WTR/WTRT SYS-1019P-WTR SYS-5029P-WTR SYS-5019P-WT/WTR



Mainstream	Embedded/Max I/O	DCO
<i>2TB DDR4 2666MHz ECC R/LR DIMM memory in 16 DIMM slots</i>	<i>Redundant 2200W high efficiency (96%) power supplies</i>	<i>Cost-Optimized / 16 DIMMs / NVMe / 10GBase-T / SAS3</i>
SYS-2029P-C1R/C1RT SYS-6029P-TR/TRT SYS-7049P-TR/TRT SYS-5019P-MT/MTR	SYS-2029P-TXRT SYS-6039P-TXRT	SYS-1029P-MT/MTR SYS-6019P-MT/MTR

Supermicro Supports the New Generation Intel® Xeon® Scalable Processors

Supermicro's X11 DP and UP SuperServer®, SuperWorkstation, SuperStorage, and SuperBlade® solutions offer numerous advantages over previous generations and the highest levels of performance, efficiency, security and scalability in the industry. Supermicro X11 SuperServers support the latest Intel® Xeon® Scalable Processors and offer up to 3TB ECC DDR4-2666MHz memory in 24 DIMMs, 7 PCI-E slots, SAS 3.0/SATA 3.0/NVMe hot-swap HDD/SSD support, 10GBase-T/10G SFP+/56Gbps FDR InfiniBand networking options, redundant Titanium Level (96%+) Digital power supplies, and IPMI 2.0 plus KVM with dedicated LAN. The SuperWorkstation systems offer in addition 7.1 HD Audio, SLI and Thunderbolt support, and up to 11 USB ports.

The latest generation X11 platforms enable Supermicro to offer the most extensive and technologically advanced range of computing solutions for Data Center, Enterprise, Cloud, HPC, Hadoop/Big Data, Storage, and Embedded environments.

Power efficiency in high availability, mission-critical applications is increased with upgraded high speed cooling architectures including high-speed fans, high-efficiency redundant Titanium Level (96%+) Digital Switching power supplies, BBP® (Battery Backup Power) and integrated SuperCap (CacheVault) power supply technologies.

When combined with full Rack Integration Services, Hardware Maintenance Services, and new Data Center Management Software that manages health, power, and maintenance of servers in large deployments, Supermicro New Generation X11 Serverboard, Chassis, SuperServer®, SuperWorkstation, SuperStorage, and SuperBlade® platforms provide the most complete, scalable computing solutions with maximum performance and the highest levels of efficiency and reliability.



1U X11 Ultra

10x 2.5" NVMe Drive Bays



1U X11 Ultra

10x 2.5" Drive Bays



MODEL	SYS-1029U-TN10RT	SYS-1029U-TR4/TR4T/TRT/TRTP/TRTP2/TR25M
Processor Support	Dual Intel® Xeon® Scalable processors with UPI up to 10.4GT/s	Dual Intel® Xeon® Scalable processors with UPI up to 10.4GT/s
Key Applications	- Virtualization - Cloud Computing - High End Enterprise Server	- Virtualization - Cloud Computing - High End Enterprise Server
Outstanding Features	10 NVMe SSDs Support 24 DIMM sockets 2 PCI-E 3.0 (x16) - Dual 10G BaseT 1000W Titanium Level Power Supply 2 SATA DOMs Support with Embedded Power	- Flexible LAN options 24 DIMM sockets 4 PCI-E Add-on cards 205W CPU support - Platinum Level Power Supply 2 SATA DOM support with embedded power -TR4: 10x 2.5" SAS/SATA drive bays -TR4T/TRT/TRTP/TRTP2/TR25M: 10x 2.5" SAS3 (12Gb/s) drive bays
Serverboard	SUPER [®] X11DPU	SUPER [®] X11DPU
Chipset	Intel® C621 Chipset	Intel® C621 Chipset
System Memory (Max.)*	Up to 3TB 3DS ECC RDIMM/LRDIMM; DDR4 up to 2666MT/s, in 24 DIMM slots	24x DIMM slots, Up to 3TB ECC 3DS LRDIMM, Up to 2666 MHz
Expansion Slots	2 PCI-E 3.0 x16 (2 FH, 10.5"L)	2 PCI-E 3.0 x 16 (FH, 10.5"L); 2 PCI-E 3.0 x 8 (1 LP, 1 Internal LP)
Onboard Storage Controller	Intel® C621 SATA3 (6 Gbps) controller	Intel® C621 SATA3 (6Gb/s) controller
Connectivity	2 10Gbase-T Ethernet 5 USB 3.0 ports (2 Rear, 2 Front, 1 Type A) 1 Serial Port	2 VGA ports (1 rear, 1 onboard) 1 Serial Port -TR4: 4 Gigabit Ethernet; 5 USB 3.0 ports (2 rear, 2 front, 1 Type A) -TR4T: 4 10Gbase-T Ethernet; 3 USB 3.0 ports (2 rear, 1 Type A) -TRT: 2 10Gbase-T Ethernet; 3 USB 3.0 ports (2 rear, 1 Type A) -TRTP: 2 10G SFP+ Ethernet; 3 USB 3.0 ports (2 rear, 1 Type A); -TRTP2: 2 10G SFP+ Ethernet; 2 Gigabit Ethernet; 3 USB 3.0 ports (2 rear, 1 Type A); -TR25M: 2 25G SFP28 Ethernet; 3 USB 3.0 ports (2 rear, 1 Type A);
VGA/Audio	2 VGA ports (1 rear, 1 onboard) 1 Aspeed AST2500 BMC	2 VGA D-Sub Connector, 1 Aspeed AST2500 BMC;
Management	Intel® Node Manager; Redfish API; IPMI2.0; KVM with dedicated LAN; NMI; SPM; SSM; SUM; SuperDoctor® 5	Intel® Node Manager; IPMI2.0; KVM with dedicated LAN; NMI; SPM; SSM; SUM; SuperDoctor® 5;
Drive Bays	10 Hot-Swappable 2.5" drive bays: 6 NVMe ports (NVMe from CPU1) 4 NVMe/SAS3 hybrid ports for optional SAS3/SATA3 (NVMe from CPU 2)	-TR4: 10 hot-swap 2.5" drive support -TR4T/TRT/TRTP/TRTP2/TR25M: 10 SAS3 ports support via AOC
Power Supply	Redundant 1000W Titanium Level Power Supply	750W Platinum Level Power Supply
Cooling System	8 Heavy Duty fans w/ Optimal Fan Speed Control , 1 Air Shroud	1 Air Shroud -TR4: 4 heavy duty fans w/ Optimal Fan Speed Control -TR4T/TRT/TRTP/TRTP2/TR25M: 8 heavy duty fans w/ Optimal Fan Speed Control,
Form Factor	1U Chassis, Enclosure: 432 x 25 x 706mm (17.2" x 1.7" x 27.8")	1U Chassis; Enclosure: 437 x 43 x 707mm (17.2" x 1.7" x 27.82")

* Please check with your Supermicro sales representative and website for compatibility and configuration details



1U X11 Ultra

10x 2.5" Drive Bays, SAS3 Expander



1U X11 Ultra

4x 3.5" NVMe Drive Bays



MODEL	SYS-1029U-E1CR4/E1CR4T/E1CRT/E1CRTP/E1CRTP2/E1CR25M	SYS-6019U-TN4RT/TN4R4T
Processor Support	Dual Intel® Xeon® Scalable processors with UPI up to 10.4GT/s	Dual Intel® Xeon® Scalable processors with UPI up to 10.4GT/s
Key Applications	- Virtualization - Cloud Computing - High End Enterprise Server	- Virtualization - Cloud Computing - High End Enterprise Server
Outstanding Features	- Flexible LAN options 10x 2.5" SAS3 (12Gb/s) drive bays 24 DIMM sockets 4 PCI-E Add-on cards 205W CPU support - Platinum Level Power Supply 2 SATA DOM support with embedded power	4 Hot-Swap NVMe Support 4 3.5" drive bays 24 DIMM sockets 4 PCI-E Add-on cards 205W CPU support - Platinum Level Power Supply 2 SATA DOM support with embedded power
Serverboard	SUPER [®] X11DPU	SUPER [®] X11DPU
Chipset	Intel® C621 chipset	Intel® C621 chipset
System Memory (Max.)*	24x DIMM slots, Up to 3TB ECC 3DS LRDIMM, Up to 2666 MHz	24x DIMM slots, Up to 3TB ECC 3DS LRDIMM, Up to 2666 MHz
Expansion Slots	2 PCI-E 3.0 x 16 (FH, 10.5"L); 2 PCI-E 3.0 x 8 (1 LP, 1 Internal LP)	2 PCI-E 3.0 x 16 (FH, 10.5"L); 2 PCI-E 3.0 x 8 (1 LP, 1 Internal LP)
Onboard Storage Controller	Intel® C621 SATA3 (6Gb/s) controller	Intel® C621 SATA3 (6Gb/s) controller
Connectivity	2 VGA ports (1 rear, 1 onboard) 1 Serial Port -E1CR4: 4 Gigabit Ethernet; 3 USB 3.0 ports (2 rear, 1 Type A); -E1CR4T: 4 10GbBase-T Ethernet; 3 USB 3.0 ports (2 rear, 1 Type A); -E1CRT: 2 10GbBase-T Ethernet; 3 USB 3.0 ports (2 rear, 1 Type A); -E1CRTP: 2 10G SFP+ Ethernet; 3 USB 3.0 ports (2 rear, 1 Type A); -E1CRTP2: 2 10G SFP+ Ethernet; 2 Gigabit Ethernet; 3 USB 3.0 ports (2 rear, 1 Type A); -E1CR25M: 2 25G SFP28 Ethernet; 3 USB 3.0 ports (2 rear, 1 Type A);	2 VGA ports (1 rear, 1 onboard) 3 USB 3.0 ports (2 rear, 1 Type A) 1 Serial Port -TN4RT: 2 10GbBase-T Ethernet ports -TN4R4T: 4x 10GbBase-T Ethernet ports via AOC-UR-i4XTF; Intel® X710 + X557 10GbBase-T; 1x Realtek RTL8211E PHY (dedicated IPMI);
VGA/Audio	Aspeed AST2500 BMC	Aspeed AST2500 BMC
Management	Intel® Node Manager; Redfish API; IPMI2.0; KVM with dedicated LAN; NMI; SPM; SSM; SUM; SuperDoctor® 5;	Intel® Node Manager; Redfish API; IPMI2.0; KVM with dedicated LAN; NMI; SPM; SSM; SUM; SuperDoctor® 5;
Drive Bays	10 hot-swap 2.5" drive bays; 10 SAS3 ports support via Expander and AOC	4 hot-swap 3.5" drive support; 4 NVMe/SATA3 ports
Peripheral Bays	750W Platinum Level Power Supply	
Power Supply	5 heavy duty fans w/ Optimal Fan Speed Control, 1 Air Shroud	750W Platinum Level Power Supply
Cooling System	1U Chassis; Enclosure: 437 x 43 x 707mm (17.2" x 1.7" x 27.82")	4 heavy duty fans w/ Optimal Fan Speed Control, 1 Air Shroud
Form Factor	1U Chassis; Enclosure: 437 x 43 x 737mm (17.2" x 1.7" x 29")	1U Chassis; Enclosure: 437 x 43 x 737mm (17.2" x 1.7" x 29")

* Please check with your Supermicro sales representative and website for compatibility and configuration details



1U X11 Ultra

4x 3.5" Drive Bays



1U X11 Ultra



MODEL	SYS-6019U-TR4/TR4T/TRT/TRTP/TRTP2/TR25M	SYS-1029UZ-TN20R25M
Processor Support	Dual Intel® Xeon® Scalable processors with UPI up to 10.4GT/s	Dual Intel® Xeon® Scalable processors with UPI up to 10.4GT/s
Key Applications	- Virtualization - Cloud Computing - High End Enterprise Server	- Virtualization - Cloud Computing - High Density Enterprise Server - Software Defined Storage
Outstanding Features	- Flexible LAN options 24 DIMM sockets 4 PCI-E Add-on cards 4 3.5" drive bays 205W CPU support - Platinum Level Power Supply 2 SATA DOM support with embedded power	20 7mm 2.5" Hot-swap drive bays 165W CPU support 24 DIMM sockets - Up to 2 PCI-E Add-on cards - Dual 25G SFP28 1600W Titanium Level Power Supply 2 SATA DOMs Support with Embedded Power
Serverboard	SUPER● X11DPU	SUPER● X11DPU-Z+
Chipset	Intel® C621 chipset	Intel® C621 chipset
System Memory (Max.)*	24x DIMM slots, Up to 3TB ECC 3DS LRDIMM, Up to 2666 MHz	24x DIMM slots, Up to 3TB ECC 3DS LRDIMM, Up to 2666 MHz
Expansion Slots	2 PCI-E 3.0 x 16 (FH, 10.5"L); 2 PCI-E 3.0 x 8 (1 LP, 1 Internal LP)	Up to 2 PCI-E 3.0 x8(FH, FL);
Onboard Storage Controller	Intel® C621 SATA3 (6Gb/s) controller	Intel® C621 SATA3 (6Gb/s) controller
Connectivity	2 VGA ports (1 rear, 1 onboard) 3 USB 3.0 ports (2 rear, 1 Type A) 1 Serial Port -TR4: 4 10GBase-T Ethernet ports -TR4T: 4 10GBase-T Ethernet ports -TRT: 2 10GBase-T Ethernet ports -TRTP: 2 10G SFP+ Ethernet ports -TRTP2: 2 Gigabit Ethernet ports; 2 10G SFP+ Ethernet ports;	2 25G SFP28 Ethernet, 3 USB 3.0 ports (2 Rear, 1 Type A), 2 USB 2.0 ports (Front), 1 Serial Port
VGA/Audio	Aspeed AST2500 BMC	
Management	Intel® Node Manager; Redfish API; IPMI2.0; KVM with dedicated LAN; NMI; SPM; SSM; SUM; SuperDoctor® 5;	Intel® Node Manager; IPMI2.0; KVM with dedicated LAN; NMI; SPM; SSM; SUM; SuperDoctor® 5; Watchdog;
Drive Bays	4 hot-swap 3.5" drive support	20 Hot-Swappable 2.5" 7mm drive bays: 8 NVMe ports and 2 SAS/SATA3/NVMe Hybrid Ports from CPU1 and 10 NVMe ports from CPU2
Peripheral Bays		
Power Supply	750W Platinum Level Power Supply	1600W Titanium Level Power Supply
Cooling System	4 heavy duty fans w/ Optimal Fan Speed Control, 1 Air Shroud	8 Heavy Duty fans w/ Optimal Fan Speed Control , 2 Air Shroud
Form Factor	1U Chassis; Enclosure: 437 x 43 x 737mm (17.2" x 1.7" x 29")	1U Chassis; Enclosure: 437 x 43 x 706mm (17.2" x 1.7" x 27.8")

* Please check with your Supermicro sales representative and website for compatibility and configuration details



1U X11 GPU



X11 GPU/Coprocessor

1U UP 2 GPUs



MODEL	SYS-1029GQ-TRT/TXRT/TNRT	SYS-1019GP-TT SYS-5019GP-TT
Processor Support	Dual Intel® Xeon® Scalable processors with UPI up to 10.4GT/s	Dual Intel® Xeon® Scalable processors
Key Applications	- High-performance computing - Big Data Analytics - Business Intelligence - Research lab/National Lab - Astrophysics	HPC cluster computer nodes
Outstanding Features	- Supports up to 4 GPUs in 1U - Support Active/Passive GPUs - Supports 2000W Titanium Power Supply - IPMI 2.0 + KVM with dedicated LAN - GPU health monitoring with fan speed control	1400W Platinum Level Digital Power Supply 6x 2.5" SATA drives - Cost effective UP platform - GPU health monitoring with fan speed control - IPMI 2.0 + KVM with dedicated LAN - UID LED
Serverboard	SUPER [®] X11DGQ	SUPER [®] X11SPG-TF
Chipset	Intel® C621 chipset	Intel® C621 chipset
System Memory (Max.)*	LRDIMM/RDIMM; DDR4 up to 2666MT/s, in 12 DIMM slots	Up to 6x 288-pin DDR4 DIMM slots
Expansion Slots	-TRT: 4 PCI-E 3.0 x16 slots (FHFL); 2 PCI-E 3.0 x16 (LP) -TNRT: 4 PCI-E 3.0 x16 slots (FHFL); 1 PCI-E 3.0 x16 (LP); 1 PCI-E 3.0 x8 (LP) -TXRT: 3 PCI-E by 16 slots; 1 x PCI-E by 8 low profile slots	1 PCI-E 3.0 x16 Center Right Hand Slot; 1 PCI-E 3.0 x16 Left Riser Slot; 1 PCI-E 3.0 x16 Right Riser Slot;
Onboard Storage Controller	Intel® C621 controller for 4 SATA3 (6 Gbps) ports; RAID 0,1,5,10;	Intel® C621 controller for 6 SATA3 (6 Gbps) ports; RAID 0,1,5,10;
Connectivity	Dual LAN with 10GBase-T with Intel® X550;	Dual LAN with 10GBase-T with Intel® X550;
VGA/Audio	Aspeed AST2500	Matrox G200ew graphics
Management	Intel® Node Manager; Redfish API; IPMI2.0; KVM with dedicated LAN; NMI; SPM; SSM; SUM; SuperDoctor® 5;	Intel® Node Manager; IPMI2.0; KVM with dedicated LAN; NMI; SPM; SUM; SuperDoctor® 5; Watchdog;
Drive Bays	2x 2.5" hot-swap SAS/SATA/NVME drive bay; 2x 2.5" Internal Fixed drive bay	-1019GP-TT: 3x 3.5" hot-swap SAS/SATA drive bay -5019GP-TT: 6x 2.5" hot-swap SAS/SATA drive bay
Peripheral Bays	N/A	N/A
Power Supply	2000W Titanium level efficiency power supplies	1400W Redundant Platinum Level high-efficiency power supplies with I ² C & PMBus
Cooling System	9 x 4cm heavy duty counter-rotating fans with air shroud & optimal fan speed control	8x 4cm high-performance counter-rotating PWM fans with optimal fan speed control;
Form Factor	1U Rackmount 437 x 43 x 894mm (17.2" x 1.7" x 35.2")	-1019GP-TT: 1U 17.2" (437mm) x 1.7" (43mm) x 28.2" (716mm) -5019GP-TT: 1U 17.2" (437mm) x 1.7" (43mm) x 28.5" (724mm)

* Please check with your Supermicro sales representative and website for compatibility and configuration details



X11 Data Center Optimized

2.5" Short Depth



X11 Data Center Optimized

3.5" Short Depth



MODEL	SYS-1029P-MT/MTR	SYS-6019P-MT/MTR
Processor Support	Dual Intel® Xeon® Scalable processors	Dual Intel® Xeon® Scalable processors
Key Applications	• Data Center • Web Server • Enterprise Server • Managed Hosting	• Data Center • Web Server • Enterprise Server • Managed Hosting
Outstanding Features	• 2x 1GbE LAN Marvell 88E1512 PHY • Short-Depth • 2x 1GbE port, 1x dedicated IPMI port • IPMI 2.0 + KVM with dedicated LAN	• 2x 1GbE LAN Marvell 88E1512 PHY • Short Depth • 2x 1GbE LAN Marvell 88E1512 PHY • IPMI 2.0 + KVM with dedicated LAN
Serverboard	SUPER [®] X11DPL-i	SUPER [®] X11DPL-i
Chipset	Intel® C620 chipset	Intel® C620 chipset
System Memory (Max.)*	8 DIMM, 1TB Reg. ECC DDR4 up to 2666 MHz	1TB Registered ECC, DDR4-2666MHz in 8 DIMM slots
Expansion Slots	1 PCI-E 3.0x16 (FHHL)	1 PCI-E 3.0 x16 (FHHL)
Onboard Storage Controller	SATA3 (6Gbps); RAID 0, 1, 5, 10	SATA3 (6Gbps); RAID 0, 1, 5, 10
Connectivity	2x 1GbE LAN Marvell 88E1512 PHY	2x 1GbE LAN Marvell 88E1512 PHY
VGA/Audio	AST2500 VGA	AST2500 VGA
Management	Intel® Node Manager; IPMI2.0; KVM with dedicated LAN; NMI; SPM; SSM; SUM; SuperDoctor® 5; Watchdog;	Intel® Node Manager; IPMI2.0; KVM with dedicated LAN; NMI; SPM; SSM; SUM; SuperDoctor® 5; Watchdog;
Drive Bays	8 Hot-Swap 2.5" SATA3 6Gb/s	N/A
Peripheral Bays	Optional PCI M.2 NVMe drive 1x Slim DVD-ROM drive (optional)	Optional PCI M.2 NVMe drive
Power Supply	-MT: 600W Single Power Supply, 80PLUS Platinum -MTR: 600W Redundant Power Supply, 80PLUS Platinum	-MT: 500W Single Power Supply, 80PLUS Platinum -MTR: 600W Redundant Power Supply, 80PLUS Platinum
Cooling System	40x40x28 mm, 22.5K RPM, SC813MF Middle Cooling Fan	40x40x28 mm, 22.5K RPM, SC813MF Middle Cooling Fan
Form Factor	1U 17.2" (437mm) x 1.7" (43mm) x 19.98" (507mm)	1U Rackmount 437 x 43 x 508mm (17.2" x 1.7" x 19.98")

* Please check with your Supermicro sales representative and website for compatibility and configuration details



X11 W10

1U 4x 3.5" Drive Bays



X11 W10



MODEL	SYS-6019P-WT/WTR/WT8	SYS-1029P-WT
Processor Support	Dual Intel® Xeon® Scalable processors with UPI up to 10.4 GT/s	Dual Intel® Xeon® Scalable processors with UPI up to 10.4 GT/s
Key Applications	• Web Server • FireWall Applications • Corporate- WINS, DNS, Print, Login • Gateway, provisioning servers • Compact Network Appliance • Cloud Computing	• Web Server • FireWall Applications • Corporate- WINS, DNS, Print, Login • Gateway, provisioning servers • Compact Network Appliance • Cloud Computing
Outstanding Features	• Supports up to 3 PCI-E cards • M.2 Support • Flexible I/O options -WT/WTR: 4x 3.5" SAS3/SATA3 drive bays -WT8: 8x 3.5" & 2x 2.5" Fixed SATA3 drive bays in 1U	• Supports up to 3 PCI-E cards • M.2 Support • Flexible I/O options • 8x 2.5" SAS3/SATA3 drive bays • Cost Effective • DVD ROM Support
Serverboard	SUPER● X11DDW-L	SUPER● X11DDW-L
Chipset	Intel® C621 chipset	Intel® C621 chipset
System Memory (Max.)*	Up to 768GB 3DS ECC, DDR4-2666MHz in 12 DIMM slots	Up to 768GB 3DS ECC, DDR4-2666MHz in 12 DIMM slots
Expansion Slots	• 2x PCI-E 3.0 x16 (FHHL) slots • 1x PCI-E 3.0 x8 (LP) slot • 1 PCI-E 3.0 x16 for Add-On-Module (AOM)	• 2x PCI-E 3.0 x16 (FHHL) slots • 1x PCI-E 3.0 x8 (LP) slot • 1 PCI-E 3.0 x16 for Add-On-Module (AOM)
Onboard Storage Controller	Intel®C621 controller for 14 SATA3 (6 Gbps) ports; RAID 0,1,5,10	Intel® C621 controller for 14 SATA3 (6 Gbps) ports; RAID 0,1,5,10;
Connectivity	Dual LAN with Lewisburg	Dual LAN with Lewisburg;
VGA/Audio	Onboard VGA	Onboard VGA
Management	Intel® Node Manager; IPMI2.0; KVM with dedicated LAN; SPM; SSM; SUM; SuperDoctor® 5; Watchdog;	Intel® Node Manager; IPMI2.0; KVM with dedicated LAN; SPM; SSM; SUM; SuperDoctor® 5; Watchdog;
Drive Bays	-WT/WTR: 4x 3.5" hot-swap SAS/SATA drive bay with SES2 -WT8: 8x 3.5" + 2x 2.5" fixed SATA	8x 2.5" hot-swap SAS/SATA drive bay
Peripheral Bays	-WT/WTR: 1x Slim DVD-ROM Drive	1x Slim DVD-ROM Drive
Power Supply	-WT: 1 Qty. PWS-605P-1H -WTR: Redundant 2 Qty. PWS-706P-1R -WT8: 1 Qty. PWS-656P-1H	1 Qty. PWS-605P-1H 1U 600W Multi Output Power Supply PMbus
Cooling System	-WT/WTR: 4x 4cm heavy duty counter-rotating with optimal fan speed control -WT8: 6x 4cm heavy duty counter-rotating with optimal fan speed control	4x 4cm heavy duty counter-rotating with optimal fan speed control
Form Factor	-WT/WTR: 1U 17.2" (437mm) x 1.7" (43mm) x 25.6" (650mm) -WT8: 1U 17.2" (437mm) x 1.7" (43mm) x 32" (813mm)	1U 17.2" (437mm) x 1.7" (43mm) x 23.5" (597mm)

* Please check with your Supermicro sales representative and website for compatibility and configuration details



X11 W10

1U 8x2.5" Drive Bays



X11 W10

1U 10x 2.5" Drive Bays, 10GbE



MODEL	SYS-1029P-WTR	SYS-1029P-WTRT
Processor Support	Dual Intel® Xeon® Scalable processors with UPI up to 10.4 GT/s	Dual Intel® Xeon® Scalable processors with UPI up to 10.4 GT/s
Key Applications	• Web Server • FireWall Applications • Corporate- WINS, DNS, Print, Login • Gateway, provisioning servers • Compact Network Appliance • Cloud Computing	• Web Server • FireWall Applications • Corporate- WINS, DNS, Print, Login • Gateway, provisioning servers • Compact Network Appliance • Cloud Computing
Outstanding Features	• Supports up to 3 PCI-E cards • M.2 Support • Flexible I/O options • 8x 2.5" SAS3/SATA3 drive bays • Cost Effective • DVD ROM Support	• Supports up to 3 PCI-E cards • M.2 Support • Dual 10GbE LAN Ports • 10x 2.5" SAS3/SATA3 drive bays with 2x optional NVMe support
Serverboard	SUPER [®] X11DDW-L	SUPER [®] X11DDW-NT
Chipset	Intel® C621 chipset	Intel® C622 chipset
System Memory (Max.)*	Up to 768GB 3DS ECC, DDR4-2666MHz in 12 DIMM slots	Up to 768GB 3DS ECC, DDR4-2666MHz in 12 DIMM slots
Expansion Slots	• 2x PCI-E 3.0 x16 (FHHL) slots • 1x PCI-E 3.0 x8 (LP) slot • 1 PCI-E 3.0 x16 for Add-On-Module (AOM)	• 2x PCI-E 3.0 x16 (FHHL) slots • 1x PCI-E 3.0 x8 (LP) slot • 1 PCI-E 3.0 x16 for Add-On-Module (AOM)
Onboard Storage Controller	Intel® C621 controller for 14 SATA3 (6 Gbps) ports; RAID 0,1,5,10	Intel® C622 controller for 14 SATA3 (6 Gbps) ports; RAID 0,1,5,10
Connectivity	Dual LAN with Lewisburg	2x RJ45 10GbE-T ports 1x RJ45 Dedicated IPMI LAN port
VGA/Audio	Onboard VGA	Onboard VGA
Management	Intel® Node Manager; IPMI2.0; KVM with dedicated LAN; SPM; SSM; SUM; SuperDoctor® 5; Watchdog;	Intel® Node Manager; IPMI2.0; KVM with dedicated LAN; SPM; SSM; SUM; SuperDoctor® 5; Watchdog;
Drive Bays	8x 2.5" hot-swap SAS/SATA drive bay	10x 2.5" hot-swap SAS/SATA drive bays (with 2x 2.5" NVMe/SAS3/SATA Hybrid drive bays)
Peripheral Bays	1x Slim DVD-ROM Drive	N/A
Power Supply	Redundant 700W High-efficiency (platinum level) power supply	Redundant 2 Qty. PWS-706P-1R
Cooling System	4x 4cm heavy duty counter-rotating with optimal fan speed control	4x 4cm heavy duty counter-rotating with optimal fan speed control
Form Factor	1U 17.2" (437mm) x 1.7" (43mm) x 23.5" (597mm)	1U 17.2" (437mm) x 1.7" (43mm) x 23.5" (597mm)

* Please check with your Supermicro sales representative and website for compatibility and configuration details



X11 Mainstream

UP Server with 4x 3.5 Drive Bays



X11 Mainstream

UP Server with Redundant Power and BBP*



MODEL	SYS-5019P-MT	SYS-5019P-MTR
Processor Support	Dual Intel® Xeon® Scalable processors with UPI up to 10.4 GT/s	Dual Intel® Xeon® Scalable processors with UPI up to 10.4 GT/s
Key Applications	• Web Hosting, VM • Application and data serving • Database Applications	• Web Hosting, VM • Application and data serving • Database Applications • Mission-critical applications
Outstanding Features	• 1 TB LRDIMM 3DS • M.2 2280, 22110 SUPPORT • Quick Release Rails	• 1 TB LRDIMM 3DS • M.2 2280, 22110 SUPPORT • Quick Release Rails
Serverboard	SUPER [®] X11DPI	SUPER [®] X11DPI
Chipset	Intel® C622 chipset	Intel® C622 chipset
System Memory (Max.)*	6-CH memory, 8-DIMM with AP support, 8x DDR4 ECC at 2666MHz, Up to 256GB RDIMM, 512GB LRDIMM, 1TB LRDIMM 3D	6-CH memory, 8-DIMM with AP support, 8x DDR4 ECC at 2666MHz, Up to 256GB RDIMM, 512GB LRDIMM, 1TB LRDIMM 3DS
Expansion Slots	1 x16 PCI-E 3.0 slot	1 x16 PCI-E 3.0 slot
Onboard Storage Controller	RAID 0/1/10	RAID 0/1/10
Connectivity	4x USB 3.0 (front/rear), USB 2.0, VGA, Serial PORT	4x USB 3.0 (front/rear), USB 2.0, VGA, Serial PORT
VGA/Audio	Built-in Aspeed VGA from BMC	Built-in Aspeed VGA from BMC
Management	1x dedicated IPMI port via Aspeed BMC onboard	1x dedicated IPMI port via Aspeed BMC onboard
Drive Bays	4x 3.5" Hot-swap SATA3 bays w/ RAID	4x 3.5" Hot-swap SATA3 bays w/ RAID
Peripheral Bays	Optional slim optical device bay, optional FDD/USB bay	Optional slim optical device bay, optional FDD/USB bay
Power Supply	350W Platinum High-Efficiency Power Supply	400W Platinum Redundant High-Efficiency Power Supply
Cooling System	4x 40mm mid-fan	4x 40mm mid-fan
Form Factor	1U rackmount, 1.7" H x 17.2" W x 19.8" D (43mm H x 437mm W x 503mm D)	1U rackmount, 1.7" H x 17.2" W x 19.8" D (43mm H x 437mm W x 503mm D)

* Please check with your Supermicro sales representative and website for compatibility and configuration details



X11 UP W10

1U Flexible I/O, Storage Array



X11 UP W10

1U Flexible I/O, Flexible Array



MODEL	SYS-1019P-WTR	SYS-5019P-WT SYS-5019P-WTR (shown)
Processor Support	Intel® Xeon® Scalable processors	Intel® Xeon® Scalable processors
Key Applications	- Database Processing & Storage - DataCenter Applications - Data Center	- Database Processing & Storage - DataCenter Applications - FireWall Applications
Outstanding Features	1 PCI-E x8 3.0 slots 2 PCI-E x16 3.0 slots 2x 10 Gigabit Ethernet Ports 2x NVMe w/AOC(option)	1 PCI-E x8 3.0 slots 2 PCI-E x16 3.0 slots 2x 10 Gigabit Ethernet Ports -WTR: Redundant PWS
Serverboard	SUPER● X11SPW-TF	SUPER● X11SPW-TF
Chipset	Intel® C622 Chipset	Intel® C622 Chipset
System Memory (Max.)*	6-CH memory, 6x DDR4 ECC at 2666MHz, Up to 192GB RDIMM, 384GB LRDIMM, 768GB LRDIMM 3DS	6-CH memory, 6x DDR4 ECC at 2666MHz, Up to 192GB RDIMM, 384GB LRDIMM, 768GB LRDIMM 3DS
Expansion Slots	2 x16 PCI-E 3.0(FHFL), 1 x8 PCI-E3.0(LP)slot	2 x16 PCI-E 3.0(FHFL), 1 x8 PCI-E3.0(LP) slot
Onboard Storage Controller	Intel® C622 controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10;	Intel® C622 controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10;
Connectivity	Dual LAN with 10GBase-T with Intel® X557	Dual LAN with 10GBase-T with Intel® X557
VGA/Audio	1 VGA, 1 Aspeed AST2500 BMC;	Built-in VGA output via Aspeed BMC
Management	Intel® Node Manager; IPMI2.0; KVM with dedicated LAN; NMI; SPM; SUM; SuperDoctor® 5; Watchdog;	1x dedicated IPMI port
Drive Bays	10x 2.5" Hot-swap SATA3 bays	4x 3.5" Hot-swap SATA3 bays
Peripheral Bays	N/A	1x slim DVD-ROM drive bay
Power Supply	Yes Redundant 2 Qty. PWS-706P-1R	No Redundant 1 Qty. PWS-605P-1H
Cooling System	4x 40x56mm counter-rotation PWM fan; 2x fans for AOC cooling	4x 40x56mm counter-rotation PWM fan
Form Factor	Enclosure: 25 x 25 x 597mm (17.2" x 1.7" x 23.5") Package: 610 x 203 x 813mm (24" x 8" x 32") Gross Weight: 40lbs (18.14kg) Net Weight: 25lbs (11.34kg)	1U 17.2" (437mm) x 1.7" (43mm) x 25.6" (650mm)

* Please check with your Supermicro sales representative and website for compatibility and configuration details



2U X11 Ultra

24x 2.5" NVMe Drive Bays



2U X11 Ultra



MODEL	SYS-2029U-TN24R4T	SYS-2029UZ-TN20R25M
Processor Support	Dual Intel® Xeon® Scalable processors with UPI up to 10.4 GT/s	Dual Intel® Xeon® Scalable processors
Key Applications	- Virtualization - Hyperconverge Storage - Cloud Computing - High End Enterprise Server	- Virtualization Hosting - Cloud Computing - Database - Data Center
Outstanding Features	24x 2.5" hot-swap NVMe drive bays 4 PCI-E Add-on cards 24 DIMM support - Redundant 1600W Titanium Level high-efficiency power supplies 4 x 10GBase-T Ports	24 15mm hot-swap 2.5" HDS (20 Nvme + 4 SATA/SAS) 24 DIMM, 3TB Reg. ECC DDR4 up to 2666MT/s 2 PCI-E 3.0 Add-on cards - Optional 4 SAS3 support - Optimized cooling (205W CPU) - Redundant Titanium level high efficiency digital power supply 2 SAS/SATA ports with built-in SATA DOM power Support
Serverboard	SUPER● X11DPU	SUPER● X11DPU-Z+
Chipset	Intel® C621 chipset	Intel® C621 chipset
System Memory (Max.)*	Up to 3TB 3DS ECC RDIMM/LRDIMM; DDR4 up to 2666MT/s, in 24 DIMM slots	24x DIMM slots, Up to 3TB ECC 3DS LRDIMM, Up to 2666 MHz, Apache Pass (AEP) memory Ready
Expansion Slots	2 PCI-E 3.0 x16 (FH, 10.5"L); 2 PCI-E 3.0 x8 (FH, 10.5"L)	2x PCI-E Gen 3.0 x8
Onboard Storage Controller	Intel® C621 SATA3 (6Gb/s) controller	Intel® C621 SATA3 (6Gb/s) controller
Connectivity	4 10GBase-T ports with Intel® X550 Ethernet Controller; 3 USB 3.0 ports (2 rear, 1 Type A); 1 Serial Port	2 25GbE SFP28 Ethernet ports; 1 VGA ports, 1 COM/Serial port (rear); 3USB 3.0 ports (2 rear, 1 Type A)
VGA/Audio	2 VGA ports (1 rear, 1 onboard); 1 Aspeed AST2500 BMC	
Management	Intel® Node Manager; Redfish API; IPMI2.0; KVM with dedicated LAN; NMI; SPM; SSM; SUM; SuperDoctor® 5;	Built-in Server management tool (IPMI 2.0, KVM/media over LAN) with dedicated LAN port
Drive Bays	24 Hot-swap 2.5" NVMe Drive Bays; Optional 20 NVMe + 4 NVMe/SAS3; 2 Rear Hot-swap 2.5" Drive Bays (2x SATA3 ports default)	24 hot-swap 2.5" drive bays; 20 NVMe (10 NVMe from CPU1, 10 NVMe from CPU2); 4 SAS/SATA3 ports from CPU1
Peripheral Bays	N/A	
Power Supply	1600W Redundant Power Supplies with PMBus	Two 1600W High-efficiency (Titanium level) digital power supply
Cooling System	4 8cm heavy duty PWM fans	4 heavy duty fans w/ Optimal Fan Speed Control
Form Factor	2U Rackmount; Enclosure: 437 x 89 x 705mm (17.2" x 3.5" x 27.76")	

* Please check with your Supermicro sales representative and website for compatibility and configuration details



2U X11 Ultra

24x 2.5" SAS3/SATA3 Drive Bays



2U X11 Ultra

24x 2.5" Drive Bays, SAS3 Expander



MODEL	SYS-2029U-TR4/TR4T/TRT/TRTP/TR25M	SYS-2029U-E1CR4/E1CR4T/E1CRT/E1CRTP/E1CR25M
Processor Support	Dual Intel® Xeon® Scalable processors with UPI up to 10.4 GT/s	Dual Intel® Xeon® Scalable processors with UPI up to 10.4 GT/s
Key Applications	- Virtualization - Hyperconverge Storage - Cloud Computing - High End Enterprise Server	- Virtualization - Hyperconverge Storage - Cloud Computing - High End Enterprise Server
Outstanding Features	- Flexible LAN Options 24x 2.5" hot-swap drive bays - Optional SAS3 and NVMe support 24 DIMM support 8 PCI-E Add-on cards 1000W Titanium Level Power Supply	- Flexible LAN Options 24x 2.5" hot-swap drive bays - SAS3.0 (12Gbps) support - Optional NVMe support 24 DIMM support 1000W Titanium Level Power Supply
Serverboard	SUPER [®] X11DPU	SUPER [®] X11DPU
Chipset	Intel® C621 chipset	Intel® C621 chipset
System Memory (Max.)*	Up to 3TB ECC LRDIMM/RDIMM; DDR4 up to 2666MT/s, in 24 DIMM slots	Up to 3TB ECC LRDIMM/RDIMM; DDR4 up to 2666MT/s, in 24 DIMM slots
Expansion Slots	1 PCI-E 3.0 x8 (LP); -TR4/TRT/TRTP/TR25M: 1 PCI-E 3.0 x16 (FH, 10.5"L); 5 PCI-E 3.0 x8 (FH, 10.5"L); 1 PCI-E 3.0 x8 (internal LP) -TR4T: 2 PCI-E 3.0 x16 (FH, 10.5"L); 4 PCI-E 3.0 x8 (FH, 10.5"L);	1 PCI-E 3.0 x8 (LP); -E1CR4/E1CRT/E1CRTP/E1CR25M: 1 PCI-E 3.0 x16 (FH, 10.5"L); 5 PCI-E 3.0 x8 (FH, 10.5"L); 1 PCI-E 3.0 x8 (internal LP) -E1CR4T: 2 PCI-E 3.0 x16 (FH, 10.5"L); 4 PCI-E 3.0 x8 (FH, 10.5"L);
Onboard Storage Controller	Intel® C621 SATA3 (6Gb/s) controller	Intel® C621 SATA3 (6Gb/s) controller
Connectivity	-TR4: 4 GbE ports; Intel® i350 -TR4T: 4 10GbBase-T ports; Intel® X540 -TRT: 2 10GbBase-T ports; Intel® X540 -TRTP: 2 10G SFP+ ports; Intel® 82599ES -TR25M: 2 25GbE SFP28 ports; Mellanox® ConnectX®-4 Lx EN	-E1CR4: 4 GbE ports; Intel® i350 -E1CR4T: 4 10GbBase-T ports; Intel® XL710 -E1CRT: 2 10GbBase-T ports; Intel® X540 -E1CRTP: 2 10G SFP+ ports; Intel® 82599ES -E1CR25M: 2 25GbE SFP28 ports; Mellanox® ConnectX®-4 Lx EN
VGA/Audio	Aspeed AST2500; 7.1 HD Audio	Aspeed AST2500; 7.1 HD Audio
Management	Intel® Node Manager; Redfish API; IPMI2.0; KVM with dedicated LAN; NMI; SPM; SSM; SUM; SuperDoctor® 5;	Intel® Node Manager; Redfish API; IPMI2.0; KVM with dedicated LAN; NMI; SPM; SSM; SUM; SuperDoctor® 5;
Drive Bays	24 Hot-swap 2.5" Drive Bays; 14 SATA3 ports by default; Optional drive support: 20 SAS3 + 4 SAS3/NVMe; Optional 2 Rear Hot-swap 2.5" Drive Bays	24 Hot-swap 2.5" Drive Bays; 24 SAS3 ports support via Expander and AOC; Optional drive support: 20 SAS3 + 4 SAS3/NVMe; Optional 2 Rear Hot-swap 2.5" Drive Bays
Peripheral Bays		
Power Supply	1000W Redundant Power Supplies with PMBus	1000W Redundant Power Supplies with PMBus
Cooling System	4 8cm heavy duty PWM fans	4 8cm heavy duty PWM fans
Form Factor	2U Rackmount; Enclosure: 437 x 89 x 705mm (17.2" x 3.5" x 27.76")	2U Rackmount; Enclosure: 437 x 89 x 705mm (17.2" x 3.5" x 27.76")

* Please check with your Supermicro sales representative and website for compatibility and configuration details



2U X11 Ultra

12x 3.5" Drive Bays



2U X11 Ultra

12x 3.5" Drive Bays



MODEL	SYS-6029U-TR4/TR4T/TRT/TRTP/TR25M	SYS-6029U-E1CR4/E1CR4T/E1CRT/E1CRTP/E1CR25M
Processor Support	Dual Intel® Xeon® Scalable processors with UPI up to 10.4 GT/s	Dual Intel® Xeon® Scalable processors with UPI up to 10.4 GT/s
Key Applications	- Virtualization - Hyperconverge Storage - Cloud Computing - High End Enterprise Server	- Virtualization - Hyperconverge Storage - Cloud Computing - High End Enterprise Server
Outstanding Features	- Flexible LAN Options 12x 3.5" hot-swap drive bays - Optional SAS3 and NVMe support 24 DIMM support 1000W Titanium Level Power Supply	- Flexible LAN Options 12x 3.5" hot-swap drive bays - SAS3.0 (12Gbps) support - Optional NVMe support 24 DIMM support 1000W Titanium Level Power Supply
Serverboard	SUPER [®] X11DPU	SUPER [®] X11DPU
Chipset	Intel® C621 chipset	Intel® C621 chipset
System Memory (Max.)*	Up to 3TB ECC LRDIMM/RDIMM; DDR4 up to 2666MT/s, in 24 DIMM slots	Up to 3TB ECC LRDIMM/RDIMM; DDR4 up to 2666MT/s, in 24 DIMM slots
Expansion Slots	1 PCI-E 3.0 x8 (LP); -TRA/TRT/TRTP/TR25M: 1 PCI-E 3.0 x16 (FH, 10.5"L), 5 PCI-E 3.0 x8 (FH, 10.5"L), 1 PCI-E 3.0 x8 (internal LP) -TR4T: 2 PCI-E 3.0 x16 (FH, 10.5"L), 4 PCI-E 3.0 x8 (FH, 10.5"L)	1 PCI-E 3.0 x8 (LP); -E1CR4/E1CR4T/E1CRTP/E1CR25M: 1 PCI-E 3.0 x16 (FH, 10.5"L), 5 PCI-E 3.0 x8 (FH, 10.5"L), 1 PCI-E 3.0 x8 (internal LP) -E1CR4T: 2 PCI-E 3.0 x16 (FH, 10.5"L), 4 PCI-E 3.0 x8 (FH, 10.5"L)
Onboard Storage Controller	Intel® C621 SATA3 (6Gb/s) controller	Intel® C621 SATA3 (6Gb/s) controller
Connectivity	-TR4: 4 GbE Ports; Intel® i350 -TR4T: 4 10GBase-T Ports; Intel® XL710 -TRT: 2 10GBase-T Ports; Intel® X540 -TRTP: 2 10G SFP+ ports; Intel® 82599ES -TR25M: 2 25GbE SFP28 ports; Mellanox® ConnectX®-4 Lx EN	-E1CR4: 4 GbE Ports; Intel® i350 -E1CR4T: 4 10GBase-T Ports; Intel® XL710 -E1CRT: 2 10GBase-T Ports; Intel® X540 -E1CRTP: 2 10G SFP+ ports; Intel® 82599ES -E1CR25M: 2 25GbE SFP28 ports; Mellanox® ConnectX®-4 Lx EN
VGA/Audio	Aspeed AST2500	Aspeed AST2500
Management	Intel® Node Manager; Redfish API; IPMI2.0; KVM with dedicated LAN; NMI; SPM; SSM; SUM; SuperDoctor® 5;	Intel® Node Manager; Redfish API; IPMI2.0; KVM with dedicated LAN; NMI; SPM; SSM; SUM; SuperDoctor® 5;
Drive Bays	12 Hot-swap 3.5" Drive Bays; 12 SATA3 ports by default; Optional drive support: 8 SAS3 + 4 SAS3/NVMe; Optional 2 Rear Hot-swap 2.5" Drive Bays	12 Hot-swap 3.5" Drive Bays; 12 SAS3 ports support via Expander and AOC; Optional drive support: 8 SAS3 + 4 SAS3/NVMe; Optional 2 Rear Hot-swap 2.5" Drive Bays
Peripheral Bays		
Power Supply	1000W Redundant Power Supplies with PMBus	1000W Redundant Power Supplies with PMBus
Cooling System	4 8cm heavy duty PWM fans	4 8cm heavy duty PWM fans
Form Factor	2U Rackmount; Enclosure: 437 x 89 x 723mm (17.2" x 3.5" x 28.46")	2U Rackmount; Enclosure: 437 x 89 x 723mm (17.2" x 3.5" x 28.46")

* Please check with your Supermicro sales representative and website for compatibility and configuration details

2U X11 GPU

X11 WIO

X11 WIO



MODEL	SYS-2029GP-TR	SYS-6029P-WTR	SYS-6029P-WTRT
Processor Support	Dual Intel® Xeon® Scalable processors with UPI up to 10.4 GT/s	Dual Intel® Xeon® Scalable processors with UPI up to 10.4 GT/s	Dual Intel® Xeon® Scalable processors with UPI up to 10.4 GT/s
Key Applications	2D/3D and CAD Applications 3D Rendering - Astrophysics - Chemistry - Cloud and Virtualization needs - Cloud Computing	- Web Server - FireWall Applications - Corporate- WINS, DNS, Print, Login - Gateway, provisioning servers - Compact Network Appliance - Cloud Computing	- Web Server - FireWall Applications - Corporate- WINS, DNS, Print, Login - Gateway, provisioning servers - Compact Network Appliance - Cloud Computing
Outstanding Features	- Up to 4 PCI-E 3.0 x16 slots support 4 double-width GPU cards 10x 2.5" SAS/SATA drive bays 16 DIMM sockets 512GB DDR3 SDRAM - GPU health monitoring with fan speed control - High-density, Enterprise Performance, Cost-effective	- Support up to 6 PCI-E cards - M.2 Support - Flexible I/O options 8x 3.5" SAS3/SATA3 drive bays	- Support up to 5 PCI-E cards - M.2 Support 12x 3.5" SAS3/SATA3 drive bays 4x optional NVMe drive bays - Dual 10GbE LAN Ports - Redundant 1200W Titanium Level Power Supply
Serverboard	SUPER● X11DPG-SN	SUPER● X11DDW-L	SUPER● X11DDW-NT
Chipset	Intel® C620 chipset	Intel® C621 chipset	Intel® C622 chipset
System Memory (Max.)*	16 DIMM up to 512GB	Up to 768GB 3DS ECC, DDR4-2666MHz in 12 DIMM slots	Up to 768GB 3DS ECC, DDR4-2666MHz in 12 DIMM slots
Expansion Slots	4 x PCI-E by 16 slots (GPU/MIC opt.); 1 x PCI-E by 8 (in x16) low profile slot	4x PCI-E 3.0 x8 (FHHL) slots 2x PCI-E 3.0 x8 (LP) slot 1 PCI-E 3.0 x16 for Add-On-Module (AOM)	1x PCI-E 3.0 x16 (FHHL) slot 4x PCI-E 3.0 x8 (2x FHHL, 2x LP) slots 1 PCI-E 3.0 x16 for Add-On-Module (AOM)
Onboard Storage Controller	Intel® C620 controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10;	Intel® C621 controller for 14 SATA3 (6 Gbps) ports; RAID 0,1,5,10	Intel® C622 controller for 14 SATA3 (6 Gbps) ports; RAID 0,1,5,10;
Connectivity	Dual LAN with Intel® X540 10GbE-T Ethernet Controller; Single LAN with 1 Realtek RTL8211E PHY (dedicated IPMI);	Dual LAN with Lewisburg;	2x RJ45 10GbE-T ports 1x RJ45 Dedicated IPMI LAN port
VGA/Audio	1 VGA, 1 Aspeed AST2400 BMC	Onboard VGA	Onboard VGA
Management	Intel® Node Manager; IPMI2.0; NMI; SPM; SUM; SuperDoctor® 5; Watchdog;	Intel® Node Manager; IPMI2.0; KVM with dedicated LAN; SPM; SSM; SUM; SuperDoctor® 5; Watchdog;	Intel® Node Manager; IPMI2.0; KVM with dedicated LAN; SPM; SSM; SUM; SuperDoctor® 5; Watchdog;
Drive Bays	10 x 2.5" hot-swap SAS/SATA drive bay	8x 3.5" hot-swap SAS/SATA drive bay with SGPIO 2x 3.5" fixed drive bay	12x 3.5" hot-swap SAS/SATA drive bay with SES2 and Mini-i-Pass (SFF 8087) connectivity
Peripheral Bays	N/A	1x slim DVD-ROM drive bay 2x USB 2.0 ports 1x COM port tray 2x USB 3.0 ports	N/A
Power Supply	1600W Platinum level efficiency redundant power supplies	Redundant 800W	Redundant 1200W High-efficiency power supply
Cooling System	5x 8cm heavy duty fans with optimal fan speed control	3x 80mm heavy duty fans with PWM fan speed control;	3x 8cm high-performance PWM fans;
Form Factor	2U 17.2" (437mm) x 3.5" (89mm) x 31" (787mm)	2U 17.2" (437mm) x 3.5" (89mm) x 25.5" (647mm)	2U 17.2" (437mm) x 3.5" (89mm) x 25.5" (647mm)

* Please check with your Supermicro sales representative and website for compatibility and configuration details



X11 Mainstream

8x 3.5" SATA3 Drive Bays



X11 Max I/O

2U 11 PCI-E Slots



MODEL	SYS-6029P-TR/TRT	SYS-2029P-TXRT
Processor Support	Dual Intel® Xeon® Scalable processors with UPI up to 10.4 GT/s	Intel® Xeon® Scalable processor
Key Applications	• Cloud and Virtualization needs • Compute Intensive Application • Compute Intensive Storage Environments • Database Processing & Storage • High Availability Storage Appliance Platform • Hosting & Application delivery	• Industrial Server • Networking Telephony • Surveillance DCR • GPU Pass-through VM server • Flash Array Server • Head-node controller
Outstanding Features	• optional support 2x NVMe fixed drives • 16 DIMM sockets • 2 SATA DOM support with embedded power • 1000W Titanium Level high-efficiency power supply • Cost optimized • 1x M.2 Support by default -TR: 2 Gigabit Ethernet Ports -TRT: 2x 10GBase-T Ports	• 3 UPI designed for up to 11.2 GT/s • 11 Low-profile PCI-E slots • 16x Hot-swap 2.5" HDD Bays • 1x PCI-E 3.0 x4 M.2 Slot • Redundant (1+1) 1KW 1000 W Titanium level 96+%
Serverboard	-TR: SUPER● X11DPI-N -TRT: SUPER● X11DPI-NT	SUPER● X11DPX-T
Chipset	Intel® C620 chipset	Intel® C621 chipset
System Memory (Max.)*	Up to 1TB Registered ECC RDIMM and up to 2TB 3DS ECC LRDIMM, DDR4-2666MHz in 16 DIMM slots	Up to 2TB Registered ECC, DDR4-2666MHz in 16 DIMM slots
Expansion Slots	Supports total 6x low profile add-on cards in 4x PCI-E 3.0 x16, 2x PCI-E 3.0 x8 slots	11 Low-profile PCI-E slots 2 PCI-E 3.0 x16 Slots (2x HSSI for CPU1/2 SKL+FPGA) 8 PCI-E 3.0 x8 Slots 1 PCI-E 3.0 x4 in x8 slot
Onboard Storage Controller	Intel® C620 controller for 8 SATA3 (6Gbps) ports; RAID 0,1,5,10	Intel® C621 controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10;
Connectivity	-TR: Dual LAN RJ45 ports with Intel® X722 Gigabit Ethernet Controller; 1x Dedicated IPMI LAN RJ45 port -TRT: Dual LAN RJ45 ports with Intel® X722 10G Based-T Ethernet Controller; 1x Dedicated IPMI LAN RJ45 port	Dual 10G baseT LAN(X550-AT2)
VGA/Audio	Aspeed AST2500	1 VGA, Aspeed AST2500
Management	Intel® Node Manager; IPMI2.0; KVM with dedicated LAN; SPM; SSM; SUM; SuperDoctor® 5; Watchdog;	Intel® Node Manager; IPMI2.0
Drive Bays	8x 3.5" hot-swap SATA3 drive bay	16x 2.5" SATA/ SAS Hot Swap HDD Bay
Peripheral Bays	USB Support: Rear: 2x3.0 + 2x2.0, Front 2x2.0 front, 1x Type A, optional 1x slim DVD-ROM drive bay and 2x NVMe fixed drives	1x slim DVD-ROM drive bay 2x USB 2.0 ports 1x COM port tray 1x standard 5.25" drive bay
Power Supply	2x Redundant 1000W Redundant Power Supply Titanium Level (96% typical efficiency)	Redundant 2 Qty. PWS-1K05A-1R
Cooling System	3x 80mm heavy duty fans with PWM fan speed control, Adjustable Air Shroud with Enhanced cooling design	4x middle fans
Form Factor	2U Rackmount Standard Barebone Mainstream Server	2U Rackmount

* Please check with your Supermicro sales representative and website for compatibility and configuration details



X11 SuperStorage

2U



X11 SuperStorage

2U



MODEL	SSG-2029P-ACR24H/L	SSG-2029P-E1CR24H/L
Processor Support	Dual Intel® Xeon® Scalable processors with UPI up to 10.4 GT/s	Dual Intel® Xeon® Scalable processors with UPI up to 10.4 GT/s
Key Applications	- High Performance NAS Servers - Web Cache - Corporate Database - HPC - Database Processing & Storage - Large Database	- Corporate Database - Database Processing & Storage - Enterprise Server - HPC - Data Center - iSCSI SAN
Outstanding Features	3x LSI 3108 SAS3 HW RAID controller 2x Optional Onboard NVMe M.2 24x 2.5" Hot-swap SAS3 bays 205W CPU support 16 DIMM support - Dual 10G BaseT 3x LSI 3108 HW controller 1200W Titanium Level high-efficiency power supply	24x 2.5" Hot-swap SAS3 bays 205W CPU support 16 DIMM support - Dual 10G BaseT - Dual JBOD Expansion Ports 1200W Titanium Level high-efficiency power supply
Serverboard	SUPER● X11DPH-T	SUPER● X11DPH-T
Chipset	Intel® C624 chipset	Intel® C624 chipset
System Memory (Max.)*	Up to 1TB 3DS ECC, DDR4-2666MHz in 16 DIMM slots	Up to 1TB 3DS ECC, DDR4-2666MHz in 16 DIMM slots
Expansion Slots	3 PCI-E 3.0 x16, 4 PCI-E 3.0 x8.	3 PCI-E 3.0 x16, 4 PCI-E 3.0 x8. Slot 2 & 3 occupied by controller and JBOD Expansion Port
Onboard Storage Controller	3x LSI 3108 SAS3 add-on controller card	LSI 3108 SAS3 add-on controller card
Connectivity	Dual LAN with 10GBase-T with Intel® X557	Dual LAN with 10GBase-T with Intel® X557
VGA/Audio	1 VGA	1 VGA
Management	Intel® Node Manager, IPMI2.0, NMI, SPM, SUM, SuperDoctor® 5, Watchdog	Intel® Node Manager, IPMI2.0, NMI, SPM, SUM, SuperDoctor® 5, Watchdog
Drive Bays	24x 2.5" hot-swap SAS3/SATA3 drive bay	24x 2.5" hot-swap SAS3/SATA3 drive bay
Peripheral Bays	2x 2.5" rear hot-swap drive bay.	2x 2.5" rear hot-swap drive bay.
Power Supply	1200W Titanium Level high-efficiency power supply	1200W Titanium Level high-efficiency power supply
Cooling System	3x 8cm hot-swap redundant PWM cooling fans.	3x 8cm hot-swap redundant PWM cooling fans
Form Factor		

* Please check with your Supermicro sales representative and website for compatibility and configuration details



X11 SuperStorage

2U



X11 SuperStorage

2U



MODEL	SSG-6029P-E1CR12T	SSG-6029P-E1CR12H/L
Processor Support	Dual Intel® Xeon® Scalable processors with UPI up to 10.4 GT/s	Dual Intel® Xeon® Scalable processors with UPI up to 10.4 GT/s
Key Applications	• Corporate Database • Database Processing & Storage • Enterprise Server • HPC • Data Center • iSCSI SAN	• Corporate Database • Database Processing & Storage • Enterprise Server • HPC • Data Center • iSCSI SAN
Outstanding Features	• LSI 3108 SAS3 HW RAID controller • 2x Optional Onboard NVMe M.2 • 12x 3.5" hot-swap SAS3/SATA3 drive bays • 205W CPU support • 16 DIMM support • Dual 10G BaseT • 1200W Titanium Level high-efficiency power supply	• 2x Optional Onboard NVMe M.2 • 12x 3.5" hot-swap SAS3/SATA3 drive bays • 205W CPU support • 16 DIMM support • Dual 10G BaseT • Dual JBOD Expansion Ports • 1200W Titanium Level high-efficiency power supply
Serverboard	SUPER [®] X11DPH-T	SUPER [®] X11DPH-T
Chipset	Intel® C624 chipset	Intel® C624 chipset
System Memory (Max.)*	Up to 1TB 3DS ECC, DDR4-2666MHz in 16 DIMM slots	Up to 1TB 3DS ECC, DDR4-2666MHz in 16 DIMM slots
Expansion Slots	3 PCI-E 3.0 x16, 4 PCI-E 3.0 x8. Slot 1 occupied by controller	3 PCI-E 3.0 x16, 4 PCI-E 3.0 x8. Slot 2 & 3 occupied by controller and JBOD Expansion Port
Onboard Storage Controller	LSI 3108 SAS3 add-on controller card	-H: LSI 3108 SAS3 add-on controller card -L: LSI 3008 SAS3 add-on controller card
Connectivity	Dual LAN with 10GBase-T with Intel® X557	Dual LAN with 10GBase-T with Intel® X557
VGA/Audio	1 VGA	1 VGA
Management	Intel® Node Manager, IPMI2.0, NMI, SPM, SUM, SuperDoctor® 5, Watchdog	Intel® Node Manager, IPMI2.0, NMI, SPM, SUM, SuperDoctor® 5, Watchdog
Drive Bays	12x 3.5" hot-swap SAS3/SATA3 drive bays	12x 3.5" hot-swap SAS3/SATA3 drive bays
Peripheral Bays	2x 2.5" rear hot-swap drive bays	2x 2.5" rear hot-swap drive bays
Power Supply	1200W Titanium Level high-efficiency power supply	1200W Titanium Level high-efficiency power supply
Cooling System	3x 8cm hot-swap redundant PWM cooling fans.	3x 8cm hot-swap redundant PWM cooling fans.
Form Factor		

* Please check with your Supermicro sales representative and website for compatibility and configuration details

X11 SuperStorage

2U



X11 UP WIO

2U 4 Full-Height PCI-E Slots



MODEL	SSG-6029P-E1CR16T	SYS-5029P-WTR
Processor Support	Dual Intel® Xeon® Scalable processors with UPI up to 10.4 GT/s	Intel® Xeon® Scalable processor
Key Applications	• Corporate Database • Database Processing & Storage • Enterprise Server • HPC • Data Center • iSCSI SAN	• Database Processing & Storage • Connectivity/Storage Computer Nodes • Data Warehouse
Outstanding Features	• LSI 3108 SAS3 HW RAID controller • 2x Optional Onboard NVMe M.2 • 16x 3.5" Hot-swap SAS3 bays • 205W CPU support • 16 DIMM support • Dual 10G BaseT • Redundant 1600W Titanium Level high-efficiency power supplies	• 8x 3.5" Hot-swap SATA3 bays w/ RAID • 2x 10 Gigabit Ethernet Ports
Serverboard	SUPER [®] X11DPH-T	SUPER [®] X11SPW-TF
Chipset	Intel® C624 chipset	Intel® C622 Chipset
System Memory (Max.)*	Up to 1TB 3DS ECC, DDR4-2666MHz in 16 DIMM slots	6-CH memory, 6x DDR4 ECC at 2666MHz, Up to 192GB RDIMM, 384GB LRDIMM, 768GB LRDIMM 3DS
Expansion Slots	3 PCI-E 3.0 x16, 4 PCI-E 3.0 x8. Slot 1 occupied by controller	4x 8 PCI-E 3.0(FHFL), 1 x8 PCI-E3.0(LP)slot
Onboard Storage Controller	LSI 3108 SAS3 add-on controller card	Intel® C622 controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10;
Connectivity	Dual LAN with 10GBase-T with Intel® X557	Dual LAN with 10GBase-T with Intel® X557
VGA/Audio	1 VGA	1 VGA, 1 Aspeed AST2500 BMC;
Management	Intel® Node Manager, IPMI2.0, NMI, SPM, SUM, SuperDoctor® 5, Watchdog	Intel® Node Manager; IPMI2.0; KVM with dedicated LAN; NMI; SPM; SUM; SuperDoctor® 5; Watchdog;
Drive Bays	16x 3.5" hot-swap SAS3/SATA3 drive bays	8x 3.5" Hot-swap SATA3 bays
Peripheral Bays	2x 2.5" rear hot-swap drive bays	1x slim DVD-ROM drive bay 2x USB 2.0 ports 1x COM port tray 2x USB 3.0 ports
Power Supply	1600W Titanium Level high-efficiency power supply	Yes Redundant 2 Qty. PWS-741P-1R
Cooling System	3x 8cm hot-swap redundant PWM cooling fans.	3x 8cm (7000 RPM) hot-swap PWM cooling fan
Form Factor		2U 17.2" (437mm) x 3.5" (89mm) x 25.5" (647mm)

* Please check with your Supermicro sales representative and website for compatibility and configuration details



X11 Multi I/O

3U 11 PCI-E Slots



X11 SuperStorage

3U



MODEL	SYS-6039P-TXRT	S5G-6039P-E1CR16H/L
Processor Support	Intel® Xeon® Scalable processor	Intel® Xeon® Scalable processor with QPI up to 10.4 GT/s
Key Applications	- Industrial Server - Surveillance DCR - GPU support server - Flash Array Server - Data Acquisitions - Video and Music Production	- Corporate Database - Data Center - Database Processing & Storage - Enterprise Server - HPC - iSCSI SAN
Outstanding Features	3 UPI designed for up to 11.2 GT/s 2x PCI-E 3.0 x14, 8x PCI-E 3.0 x8, 1x PCI-E 2.0 x4 (in x8) 8x Hot-swap 3.5" HDD Bays and 2x 5.25" Drive Bays 2 SATA DOMs Support with Embedded Power - Redundant (1+1) 980W Platinum level 94+%	2x Optional Onboard NVMe M.2 16x 3.5" SAS3/SATA3 drive bays 205W CPU support 16 DIMM support - Dual 10G BaseT - Dual JBOD Expansion Ports 1200W Titanium Level high-efficiency power supply
Serverboard	SUPER [®] X11DPX-T	SUPER [®] X11DPH-T
Chipset	Intel® C621 chipset	Intel® C624 chipset
System Memory (Max.)*	Up to 2TB Registered ECC, DDR4-2666MHz in 16 DIMM slots	Up to 1TB 3DS ECC, DDR4-2666MHz in 16 DIMM slots
Expansion Slots	2 PCI-E 3.0 x16 Slots (2x HSSI for CPU1/2 SKL+FPGA) 8 PCI-E 3.0 x8 Slots (6x opened slots) 1 PCI-E 3.0 x4 in x8 slot	3 PCI-E 3.0 x16, 4 PCI-E 3.0 x8. Slot 2 & 3 occupied by controller and JBOD Expansion Port
Onboard Storage Controller	Intel® C621 SATA3 (6Gb/s) controller	-E1CR116H: LSI 3108 SAS3 add-on controller card -E1CR116L: LSI 3008 SAS3 add-on controller card
Connectivity	Dual 10G baseT LAN(X550-AT2)	Dual LAN with 10GBase-T with Intel® X557
VGA/Audio	1 VGA, Aspeed AST2500	1 VGA
Management	Intel® Node Manager IPMI2.0 KVM with dedicated LAN SPM SUM SuperDoctor® 5	Intel® Node Manager, IPMI2.0, NMI, SPM, SUM, SuperDoctor® 5, Watchdog
Drive Bays	8x 3.5" hot-swap and 2x 5.25" drive bay	16x 3.5" hot-swap SAS3/SATA3 drive bays
Peripheral Bays	1x slim DVD-ROM drive bay and 1x FDD bay	2x 2.5" rear hot-swap drive bays
Power Supply	Redundant 2 Qty. PWS-982P-1R	1200W Titanium Level high-efficiency power supply
Cooling System	3x middle fans & 1x rear exhaust fan	3x 8cm hot-swap redundant PWM cooling fans. 2x 80mm rear hot-swap exhaust PWM fan
Form Factor	3U Chassis	3U Chassis

* Please check with your Supermicro sales representative and website for compatibility and configuration details



MODEL	SYS-7049GP-TRT
Processor Support	Dual Intel® Xeon® Scalable processors with UPI up to 10.4 GT/s
Key Applications	• Scientific Virtualization • High Performance Computing • High-End GPU workstation • Bio-Informatics • Machine Learning • Computer Aided Design
Outstanding Features	• Support up to 4 GPUs/Coprocessor • Redundant 2000W Titanium Power Supplies • 16 DIMM slots • 8 Hot-Swap 3.5" SATA/SAS Drives • 7.1 HD Audio Header
Serverboard	SUPER [®] X11DPG-QT
Chipset	Intel C621, LBG-2 Chipset
System Memory (Max.)*	Up to 2TB ECC LRDIMM/RDIMM; DDR4 up to 2666MT/s, in 16 DIMM slots
Expansion Slots	6 PCI-E 3.0 x16 Slots; 1 PCI-E x4 (in x8 slot)
Onboard Storage Controller	N/A
Connectivity	2 10GBase-T ports; Intel® X550 10GBase-T
VGA/Audio	Aspeed AST2500
Management	Intel® Node Manager; Redfish API; IPMI2.0; KVM with dedicated LAN; NMI; SPM; SSM; SUM; SuperDoctor® 5;
Drive Bays	8 Hot-swap 3.5" Drive Bays; (2x SATA3 ports default)
Peripheral Bays	N/A
Power Supply	2200W Titanium Level efficiency redundant power supplies
Cooling System	4 heavy duty fans, 4 exhaust fans, and 2 active heat sink w/ Optimal Fan Speed Control
Form Factor	4U Rackmount/Workstation 462 x 178 x 673mm (18.2" x 7.0" x 26.5")

* Please check with your Supermicro sales representative and website for compatibility and configuration details



X11 Mainstream

8x 3.5" SATA3 Drive Bays



MODEL	SYS-7049P-TR/TRT
Processor Support	Dual Intel® Xeon® Scalable processor with UPI up to 10.4GT/s
Key Applications	• Cloud and Virtualization needs • Business Critical Applications • Compute Intensive Storage Environments • Database Processing & Storage • Application and data serving • Hosting & Application delivery
Outstanding Features	• optional support 2x NVMe fixed drives • 1x M.2 support by default • 16 DIMM sockets • 2 SATA DOM support with embedded power • Super Quiet 1280W Redundant Power high-efficiency Platinum Level (94% typical efficiency) • Cost optimized -TR: 2 Gigabit Ethernet Ports -TRT: 2x 10GBase-T Ports
Serverboard	SUPER● X11DPI
Chipset	Intel® C620 chipset
System Memory (Max.)*	Supports 16xDIMM,DDR4-2666MHz
Expansion Slots	Supports total 6x full height, full length add-on cards in 4x PCI-E 3.0 x16, 2x PCI-E 3.0 x8 slots
Onboard Storage Controller	Intel® C620 controller for 8 SATA3 (6Gbps) ports; RAID 0,1,5,10
Connectivity	-TR: Dual LAN RJ45 ports with Intel® X722 Gigabit Ethernet Controller; 1x Dedicated IPMI LAN RJ45 port -TRT: Dual LAN RJ45 ports with Intel® X722 10G Based-T Ethernet Controller; 1x Dedicated IPMI LAN RJ45 port
VGA/Audio	Aspeed AST2500
Management	Intel® Node Manager; IPMI2.0; KVM with dedicated LAN; SPM; SSM; SUM; SuperDoctor® 5; Watchdog;
Drive Bays	8x 3.5" hot-swap SATA3 drive bay
Peripheral Bays	USB Support: Rear: 2x3.0 + 2x2.0, Front 2x2.0 front, 1x Type A, optional 1x 5.25" DVD-ROM drive and 2x NVMe fixed drives
Power Supply	2x Super Quiet 1280W Redundant Power Supply modules, high-efficiency Platinum Level (94% typical efficiency),
Cooling System	2x 80mm PWM Rear Chassis Fans; 3x 80mm high-performance fan; Adjustable Air Shroud with Enhanced cooling design
Form Factor	2U Rackmount Standard Barebone Mainstream Server Enclosure: 178 x 452 x 648mm (7" x 17.8" x 25.5")

* Please check with your Supermicro sales representative and website for compatibility and configuration details



X11 SuperStorage

4U



X11 SuperStorage

4U



MODEL	SSG-6049P-E1CR24H SSG-6049P-E1CR24L	SSG-6049P-E1CR36H SSG-6049P-E1CR36L
Processor Support	Dual Intel® Xeon® Scalable processor with UPI up to 10.4 GT/s	
Key Applications	• Corporate Database • Data Center • Database Processing & Storage • Enterprise Server • HPC • iSCSI SAN	
Outstanding Features	• 2x Optional Onboard NVMe M.2 • 24x 3.5" Hot-swap SAS3 bays • 205W CPU support • 16 DIMM support • Dual 10G BaseT • Dual JBOD Expansion Ports • 1200W Titanium Level high-efficiency power supply	
Serverboard	SUPER [®] X11DPH-T	
Chipset	Intel® C624 chipset	
System Memory (Max.)*	Up to 1TB 3DS ECC, DDR4-2666MHz in 16 DIMM slots	
Expansion Slots	3 PCI-E 3.0 x16, 4 PCI-E 3.0 x8. Slot 2 & 3 occupied by controller and JBOD Expansion Port	
Onboard Storage Controller	-E1CR24H: LSI 3108 SAS3 add-on controller card -E1CR24L: LSI 3008 SAS3 add-on controller card	-E1CR36H: LSI 3108 SAS3 add-on controller card -E1CR36L: LSI 3008 SAS3 add-on controller card
Connectivity	Dual LAN with 10GBase-T with Intel® X557	
VGA/Audio	1 VGA	
Management	Intel® Node Manager, IPMI2.0, NMI, SPM, SUM, SuperDoctor® 5, Watchdog	
Drive Bays	24x 3.5" hot-swap SAS3/SATA3 drive bays	
Peripheral Bays	2x 2.5" rear hot-swap drive bays	
Power Supply	1200W Titanium Level high-efficiency power supply	
Cooling System	3x 8cm hot-swap redundant PWM cooling fans. 2x 80mm rear hot-swap exhaust PWM fan	
Form Factor	7x 8cm high-performance PWM fans, air shroud	

* Please check with your Supermicro sales representative and website for compatibility and configuration details



1U Ultra

10 NVMe, 2.5" Drives



1U Ultra

10 SAS3 Drive Bays, Expander



1U Ultra

10 SAS3 Drive Bays, Expander



MODEL	SYS-1028U-TN10RT+	SYS-1028U-E1CR4+	SYS-1028U-E1CRTP+
Processor Support	Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s	Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s	Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s
Key Applications	- Virtualization - Cloud Computing - High End Enterprise Server	- Virtualization - Cloud Computing - High End Enterprise Server	- Virtualization - Cloud Computing - High End Enterprise Server
Outstanding Features	10 NVMe SSDs Support 160W CPU support 24 DIMM slots 3 PCI-E Add-on cards 1000W Titanium Level Power Supply 2 SATA DOMs Support with Embedded Power	- Flexible LAN options - Expander Backplane 24 DIMM slots 4 PCI-E Add-on cards 10x 2.5" SAS/SATA drive bays 160W CPU support - Platinum Level Power Supply 2 SATA DOM support with embedded power	2 port 10G SFP+ and 2 port 1GBase-T connectivity - Expander Backplane 24 DIMM slots 4 PCI-E Add-on cards 10x 2.5" SAS/SATA drive bays 160W CPU support - Platinum Level Power Supply 2 SATA DOM support with embedded power
Serverboard	SUPER● X10DRU-i+	SUPER● X10DRU-i+	SUPER● X10DRU-i+
Chipset	Intel® C612 Chipset	Intel® C612 Chipset	Intel® C612 Chipset
System Memory (Max.)*	Up to 3TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 24 DIMM slots	Up to 3TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 24 DIMM slots	Up to 3TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 24 DIMM slots
Expansion Slots	3 PCI-E 3.0 x 8 (2 FH, 10.5"L, LP)	2 PCI-E 3.0 x 16 (FH, 10.5"L); 2 PCI-E 3.0 x 8 (1 LP, 1 Internal LP)	2 PCI-E 3.0 x 16 (FH, 10.5"L); 2 PCI-E 3.0 x 8 (1 LP, 1 Internal LP)
Onboard Storage Controller	Intel® C612 controller for 10 SATA3 (6Gbps) ports; RAID 0,1,5,10	One of the following storage Add-on cards required: AOC-S3108-H8iR-16DD (SAS3 HW RAID 16HDD) AOC-S3108-H8iR (SAS3 HW RAID) AOC-S3008L-L8i (SAS3 SW RAID) AOC-S3008L-L8e (SAS3 HBA)	One of the following storage Add-on cards required: AOC-S3108-H8iR-16DD (SAS3 HW RAID 16HDD) AOC-S3108-H8iR (SAS3 HW RAID) AOC-S3008L-L8i (SAS3 SW RAID) AOC-S3008L-L8e (SAS3 HBA)
Connectivity	2 10Gbase-T Ethernet 5 USB 3.0 ports (2 Rear, 2 Front, 1 Type A) 1 Serial Port	4 Gigabit Ethernet; 5 USB 3.0 ports (2 rear, 2 front, 1 Type A); 1 Serial Port	2 10G SFP+; 2 Gigabit Ethernet; 5 USB 3.0 ports (2 rear, 2 front, 1 Type A); 1 Serial Port
VGA/Audio	AST2400 VGA	AST2400 VGA	AST2400 VGA
Management	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog
Drive Bays	10 Hot-Swappable 2.5" NVMe SSD Drive bays Support and 4 NVMe/SAS3/SATA3 Hybrid Ports (SATA3/SAS3 optional)	10 hot-swap 2.5" drive bays support via Expander	10 hot-swap 2.5" drive bays support via Expander
Peripheral Bays	N/A	N/A	N/A
Power Supply	1000W Titanium Level Power Supply	750W Platinum Level Power Supply	750W Platinum Level Power Supply
Cooling System	8 Heavy Duty fans w/ Optimal Fan Speed Control, 1 Air Shroud	4 heavy duty fans w/ Optimal Fan Speed Control, 1 Air Shroud	4 heavy duty fans w/ Optimal Fan Speed Control, 1 Air Shroud
Form Factor	1U Rackmount 437 x 43 x 706.8mm (17.2" x 1.7" x 27.82")	1U Rackmount 437 x 43 x 707mm (17.2" x 1.7" x 27.82")	1U Rackmount 437 x 43 x 707mm (17.2" x 1.7" x 27.82")

* Please check with your Supermicro sales representative and website for compatibility and configuration details



1U Ultra

2 NVMe, 3TB DDR4



1U Ultra

3TB DDR4



MODEL	SYS-1028U-TNR4T+ SYS-1028U-TNRT+ SYS-1028U-TNRTP+	SYS-1028U-TR4+ SYS-1028U-TRT+
Processor Support	Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s	Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s
Key Applications	- Virtualization - Cloud Computing - High End Enterprise Server	- Virtualization - Cloud Computing - High End Enterprise Server
Outstanding Features	- Flexible LAN options - Redundant power supplies 24 DIMM slots 4 PCI-E Add-on cards 2 NVMe/SATA3 hybrid ports - Optional 8 SAS3 ports via AOC 160W CPU support - Platinum Level Power Supply 2 SATADOM	- Flexible LAN options 24 DIMM slots 4 PCI-E Add-on cards - SAS3 support 160W CPU support - Platinum Level Power Supply 2 SATA DOM support with embedded power
Serverboard	SUPER [®] X10DRU-i+	SUPER [®] X10DRU-i+
Chipset	Intel® C612 Chipset	Intel® C612 Chipset
System Memory (Max.)*	Up to 3TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 24 DIMM slots	Up to 3TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 24 DIMM slots
Expansion Slots	2 PCI-E 3.0 x 16 (FH, 10.5"L); 2 PCI-E 3.0 x 8 (1 LP, 1 Internal LP)	2 PCI-E 3.0 x 16 (FH, 10.5"L); 2 PCI-E 3.0 x 8 (1 LP, 1 Internal LP)
Onboard Storage Controller	Intel® C612 controller for 10 SATA3 (6Gbps) ports; RAID 0,1,5,10	Intel® C612 controller for 10 SATA3 (6Gbps) ports; RAID 0,1,5,10
Connectivity	5 USB 3.0 ports (2 rear, 2 front, 1 Type A); 1 Serial Port -TNR4T+: 4 10GBase-T ports; -TNRT+: 2 10Gbase-T Ethernet -TNRTP+: 2 10G SFP+ ports	5 USB 3.0 ports (2 rear, 2 front, 1 Type A); 1 Serial Port -TR4+: 4 GbE ports; -TRT+: 2 10Gbase-T ports;
VGA/Audio	AST2400 VGA	AST2400 VGA
Management	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog
Drive Bays	10 hot-swap 2.5" drive bays support: Default 8 SATA3 ports and 2 NVMe/SATA3 hybrid ports	10 hot-swap 2.5" drive bays support Default 10 SATA3 ports, Optional 8 SAS3 ports
Peripheral Bays	N/A	N/A
Power Supply	750W Platinum Level Power Supply	750W Platinum Level Power Supply
Cooling System	5 heavy duty fans w/ Optimal Fan Speed Control, 1 Air Shroud	4 heavy duty fans w/ Optimal Fan Speed Control, 1 Air Shroud
Form Factor	1U Rackmount 437 x 43 x 706.8mm (17.2" x 1.7" x 27.82")	1U Rackmount 437 x 43 x 706.8mm (17.2" x 1.7" x 27.82")

* Please check with your Supermicro sales representative and website for compatibility and configuration details



1U Ultra 3TB DDR4



1U Ultra 3TB DDR4



1U Ultra 3TB DDR4



MODEL	SYS-1028U-TR4T+	SYS-6018U-TR4+ SYS-6018U-TRT+	SYS-6018U-TR4T+ SYS-6018U-TRTP+
Processor Support	Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s	Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s	Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s
Key Applications	- Virtualization - Cloud Computing - High End Enterprise Server	- Virtualization - Cloud Computing - High End Enterprise Server	- Virtualization - Cloud Computing - High End Enterprise Server
Outstanding Features	- Flexible LAN options 24 DIMM slots 4 PCI-E Add-on cards - SAS3 support 160W CPU support - Platinum Level Power Supply 2 SATA DOM support with embedded power	- Flexible LAN options 24 DIMM slots 4 PCI-E Add-on cards - SAS3 support 160W CPU support - Platinum Level Power Supply 2 SATA DOM support with embedded power	- Flexible LAN options 24 DIMM slots 4 PCI-E Add-on cards - SAS3 support 160W CPU support - Platinum Level Power Supply 2 SATA DOM support with embedded power
Serverboard	SUPER [®] X10DRU-i+	SUPER [®] X10DRU-i+	SUPER [®] X10DRU-i+
Chipset	Intel® C612 Chipset	Intel® C612 Chipset	Intel® C612 Chipset
System Memory (Max.)*	Up to 3TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 24 DIMM slots	Up to 3TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 24 DIMM slots	Up to 3TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 24 DIMM slots
Expansion Slots	2 PCI-E 3.0 x 16 (FH, 10.5"L); 2 PCI-E 3.0 x 8 (1 LP, 1 Internal LP)	2 PCI-E 3.0 x 16 (FH, 10.5"L); 2 PCI-E 3.0 x 8 (1 LP, 1 Internal LP)	2 PCI-E 3.0 x 16 (FH, 10.5"L); 2 PCI-E 3.0 x 8 (1 LP, 1 Internal LP)
Onboard Storage Controller	Intel® C612 controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10	Intel® C612 controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10	Intel® C612 controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10
Connectivity	4 10Gbase-T ports; 5 USB 3.0 ports (2 rear, 2 front, 1 Type A); 1 Serial Port	-TR4+: 4 GbE ports; -TRT+: 2 10Gbase-T ports; 5 USB 3.0 ports (2 rear, 2 onboard header, 1 Type A); 1 Serial Port	-TR4T+: 4 10Gbase-T ports; -TRTP+: 2 10G SFP+ ports; 5 USB 3.0 ports (2 rear, 2 onboard header, 1 Type A); 1 Serial Port
VGA/Audio	AST2400 VGA	AST2400 VGA	AST2400 VGA
Management	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog
Drive Bays	10 hot-swap 2.5" drive bays support Default 10 SATA3 ports, Optional 8 SAS3 ports	4 hot-swap 3.5" drive bays support	4 hot-swap 3.5" drive bays support
Peripheral Bays	N/A	Optional 1 slim DVD-ROM drive	Optional 1 slim DVD-ROM drive
Power Supply	750W Platinum Level Power Supply	750W Platinum Level Power Supply	750W Platinum Level Power Supply
Cooling System	4 heavy duty fans w/ Optimal Fan Speed Control, 1 Air Shroud	4 heavy duty fans w/ Optimal Fan Speed Control, 1 Air Shroud	4 heavy duty fans w/ Optimal Fan Speed Control, 1 Air Shroud
Form Factor	1U Rackmount 437 x 43 x 706.8mm (17.2" x 1.7" x 27.82")	1U Rackmount 437 x 43 x 737.1mm (17.2" x 1.7" x 29.02")	1U Rackmount 437 x 43 x 737.1mm (17.2" x 1.7" x 29.02")

* Please check with your Supermicro sales representative and website for compatibility and configuration details



2U Ultra

24 NVMe, 2.5" Drives



2U Ultra

2.5" Drives, NVMe, Expander



MODEL	SYS-2028U-TN24RT+	SYS-2028U-E1CNRT+ SYS-2028U-E1CNR4T+
Processor Support	Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s	Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s
Key Applications	- Virtualization - Cloud Computing - High End Enterprise Server - All Flash Storage	- Virtualization - Cloud Computing - High End Enterprise Server - Hyperconverge Storage - Database Processing & Storage
Outstanding Features	24-port NVMe SSD Support 26x 2.5" hot-swap drive bays 24 DIMM sockets 160W CPU support Titanium Level Power Supply 2 SATA DOM support with embedded power	24 DIMM slots 24x 2.5" hot-swap drive bays 4-port NVMe SSD Support 160W CPU support Titanium Level power supply 2 SATA DOM support with embedded power
Serverboard	SUPER [®] X10DRU-i+	SUPER [®] X10DRU-i+
Chipset	Intel® C612 Chipset	Intel® C612 Chipset
System Memory (Max.)*	Up to 3TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 24 DIMM slots	Up to 3TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 24 DIMM slots
Expansion Slots	2 PCI-E 3.0 x16 (2 FH, 10.5"L) 1 PCI-E 3.0 x8 (LP)	-E1CNRT+: 7 PCI-E 3.0 x8 (5 FH, 10.5"L, 1 Internal LP) -E1CNR4T+: 6 PCI-E 3.0 x8 (4 FH, 10.5"L, 1 Internal LP)
Onboard Storage Controller	Intel® C612 controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10	One of the following storage Add-on cards required: AOC-S3108-H8IR-16DD (SAS3 HW RAID 16HDD) AOC-S3108-H8IR (SAS3 HW RAID) AOC-S3008L-L8i (SAS3 SW RAID) AOC-S3008L-L8e (SAS3 HBA)
Connectivity	2 10Gbase-T Ethernet; 5 USB 3.0 ports (2 rear, 2 onboard header, 1 Type A); 1 Serial Port	-E1CNRT+: 2 10Gbase-T ports; -E1CNR4T+: 4 10Gbase-T ports
VGA/Audio	AST2400 VGA	AST2400 VGA
Management	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog
Drive Bays	26 hot-swap 2.5" drive bays support; 20 NVMe ports (12 NVMe from CPU1, 8 NVMe from CPU2) 4 NVMe/SAS3 hybrid ports (4 NVMe from CPU2, SAS3 support with optional storage controller card)	24x hot-swap 2.5" drive bays support; 4 NVMe SAS3 hybrid ports 20 SAS3 drive ports
Peripheral Bays	N/A	N/A
Power Supply	1600W Titanium Level (96%+)Power Supply	Redundant 1000W Titanium Level (96%+)Power Supply
Cooling System	4 heavy duty fans w/ Optimal Fan Speed Control, 1 Air Shroud	4 heavy duty fans w/ Optimal Fan Speed Control, 1 Air Shroud
Form Factor	2U Rackmount 437 x 89 x 705.3mm (17.2" x 3.5" x 27.76")	2U Rackmount 437 x 89 x 705.3mm (17.2" x 3.5" x 27.76")

* Please check with your Supermicro sales representative and website for compatibility and configuration details



2U Ultra
3.5" Drives, NVMe, Expander



2U Ultra
2.5" Drives, NVMe, Titanium Level Power



2U Ultra
3.5" Drives, NVMe, Titanium Level Power

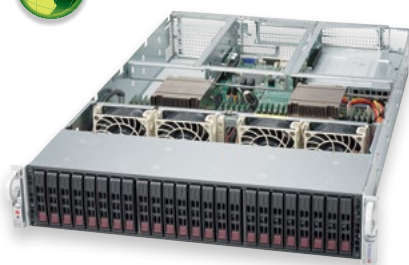


MODEL	SYS-6028U-E1CNRT+ SYS-6028U-E1CNR4T+	SYS-2028U-TNRT+ SYS-2028U-TNR4T+	SYS-6028U-TNRT+ SYS-6028U-TNR4T+
Processor Support	Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s		
Key Applications	- Virtualization - Cloud Computing - High End Enterprise Server		
Outstanding Features	24 DIMM slots 12x 3.5" hot-swap drive bays 4-port NVMe SSD Support 160W CPU support - Titanium Level power supply 2 SATA DOM support with embedded power	24 DIMM slots 24x 2.5" hot-swap drive bays 4-port NVMe SSD Support 160W CPU support - Titanium Level Power Supply 2 SATA DOM support with embedded power	- Flexible LAN options 24 DIMM slots 12x 3.5" hot-swap drive bays 4-port NVMe SSD Support 160W CPU support - Titanium Level Power Supply 2 SATA DOM support with embedded power
Serverboard	SUPER [®] X10DRU-i+		
Chipset	Intel® C612 Chipset		
System Memory (Max.)*	Up to 3TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 24 DIMM slots		
Expansion Slots	-E1CNRT+: 7 PCI-E 3.0 x8 (5 FH, 10.5"L, 1 LP, 1 Internal LP) -E1CNR4T+: 6 PCI-E 3.0 x8 (4 FH, 10.5"L, 1 LP, 1 Internal LP)	-TNRT+: 7 PCI-E 3.0 x8 (5 FH, 10.5"L, 1 LP, 1 Internal LP) -TNR4T+: 6 PCI-E 3.0 x8 (4 FH, 10.5"L, 1 LP, 1 Internal LP)	TNRT+: 7 PCI-E 3.0 x8 (5 FH, 10.5"L, 1 LP, 1 Internal LP) TNR4T+: 6 PCI-E 3.0 x8 (4 FH, 10.5"L, 1 LP, 1 Internal LP)
Onboard Storage Controller	One of the following storage Add-on cards required: AOC-S3108-H8iR-16DD (SAS3 HW RAID 16HDD) AOC-S3108-H8iR (SAS3 HW RAID) AOC-S3008L-L8i (SAS3 SW RAID) AOC-S3008L-L8e (SAS3 HBA)	Intel® C612 controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10	Intel® C612 controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10
Connectivity	-E1CNRT+: 2 10Gbase-T ports; -E1CNR4T+: 4 10Gbase-T ports	-TNRT+: 2 10Gbase-T ports; -TNR4T+: 4 10Gbase-T ports; 5 USB 3.0 ports (2 rear, 2 onboard header, 1 Type A); 1 Serial Port	-TNRT+: 2 10Gbase-T Ethernet -TNR4T+: 4 10Gbase-T Ethernet 5 USB 3.0 ports (2 rear, 2 onboard header, 1 Type A); 1 Serial Port
VGA/Audio	AST2400 VGA		
Management	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog		
Drive Bays	12x hot-swap 3.5" drive bays support; 4 NVMe SAS3 hybrid ports 8 SAS3 drive ports	24 hot-swap 2.5" drive support; 8 SATA3 + 4 NVMe; Optional 24 SAS3 drive support via AOCs	12 hot-swap 3.5" drive bays support; 8 SATA3 + 4 NVMe; Optional 12 SAS3 drive support via AOCs
Peripheral Bays	N/A		
Power Supply	1000W Titanium Level (96%+) Power Supply		
Cooling System	4 heavy duty fans w/ Optimal Fan Speed Control, 1 Air Shroud		
Form Factor	2U Rackmount 437 x 89 x 723.3mm (17.2" x 3.5" x 28.46")		

* Please check with your Supermicro sales representative and website for compatibility and configuration details

**2U Ultra**

3TB DDR4, Titanium Level Power

**2U Ultra**

3TB DDR4, Titanium Level Power



MODEL	SYS-2028U-TR4/TRT/TR4T/TRTP	SYS-6028U-TR4/TRT/TR4T/TRTP
Processor Support	Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s	Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s
Key Applications	- Virtualization - Cloud Computing - High End Enterprise Server	- Virtualization - Cloud Computing - High End Enterprise Server
Outstanding Features	- Flexible LAN options 24 DIMM slots 8 PCI-E Add-on cards 24x 2.5" SAS3 hot-swap drive bays supported 160W CPU support 1000W Titanium Level (96%+) Power Supply 2 SATA DOM support with embedded power	- Flexible LAN options 24 DIMM slots 8 PCI-E Add-on cards 24x 2.5" SAS3 hot-swap drive bays supported 160W CPU support 1000W Titanium Level (96%+) Power Supply 2 SATA DOM support with embedded power
Serverboard	SUPER● X10DRU-i+	SUPER● X10DRU-i+
Chipset	Intel® C612 Chipset	Intel® C612 Chipset
System Memory (Max.)*	Up to 3TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 24 DIMM slots	Up to 3TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 24 DIMM slots
Expansion Slots	1 PCI-E 3.0 x 16 (FH, 10.5"L) -TR4+/TRT+/TRTP+: 7 PCI-E 3.0 x 8 (5 FH, 10.5"L, 1 LP, 1 Internal LP) -TR4T+: 6 PCI-E 3.0 x 8 (4 FH, 10.5"L, 1 LP, 1 Internal LP)	1 PCI-E 3.0 x 16 (FH, 10.5"L) -TR4+/TRT+/TRTP+: 7 PCI-E 3.0 x 8 (5 FH, 10.5"L, 1 LP, 1 Internal LP) -TR4T+: 6 PCI-E 3.0 x 8 (4 FH, 10.5"L, 1 LP, 1 Internal LP)
Onboard Storage Controller	Intel® C612 controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10	Intel® C612 controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10
Connectivity	5 USB 3.0 ports (2 rear, 2 onboard header, 1 Type A); 1 Serial Port -TR4+: 4 GbE ports; -TRT+: 2 10Gbase-T ports; -TR4T+: 4 10Gbase-T ports; -TRTP+: 2 10G SFP+ ports	5 USB 3.0 ports (2 rear, 2 onboard header, 1 Type A); 1 Serial Port -TR4+: 4 GbE ports; -TRT+: 2 10Gbase-T ports; -TR4T+: 4 10Gbase-T ports; -TRTP+: 2 10G SFP+ ports
VGA/Audio	AST2400 VGA	AST2400 VGA
Management	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog
Drive Bays	24 hot-swap 2.5" drive bays support; Default 10 SATA3 ports, Optional 24 SAS3 ports via AOCs	12 hot-swap 3.5" drive bays support; Default 10 SATA3 ports, Optional 12 SAS3 ports via AOCs
Peripheral Bays	N/A	N/A
Power Supply	1000W Titanium Level (96%+) Power Supply	1000W Titanium Level (96%+) Power Supply
Cooling System	4 heavy duty fans w/ Optimal Fan Speed Control, 1 Air Shroud	4 heavy duty fans w/ Optimal Fan Speed Control, 1 Air Shroud
Form Factor	2U Rackmount 437 x 89 x 705.3mm (17.2" x 3.5" x 27.76")	2U Rackmount 437 x 89 x 723.3mm (17.2" x 3.5" x 28.46")

* Please check with your Supermicro sales representative and website for compatibility and configuration details



1U 4 Pascal GPU



1U 4-GPU/Coprocessor



1U 3-GPU/Coprocessor



MODEL	SYS-1028GQ-TXR SYS-1028GQ-TXRT	SYS-1028GQ-TR SYS-1028GQ-TRT	SYS-1028GR-TR SYS-1028GR-TRT
Processor Support	Dual Intel® Xeon® Processor E5-2600 v4 product family with QPI up to 9.6 GT/s	Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s	Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s
Key Applications	- Artificial Intelligence - Big Data Analytics - High-performance computing - Research Lab/National Lab - Astrophysics - Business Intelligence	- HPC cluster computer nodes 2D/3D and CAD Applications - High-performance computing - Oil & Gas - Cloud and Virtualization needs - Astrophysics	2D/3D and CAD Applications 3D Rendering - Astrophysics - Chemistry - Cloud and Virtualization needs - Cloud Computing - Financial Analysis - High-performance computing - Oil & Gas
Outstanding Features	- Supports up to 4 Pascal GPUs with 80GB/s NVLink - Optimized for GPUDirect RDMA 145W CPU support 16 DIMM support (96%) Power Supplies 2x 2.5" Hot-Swap HDD and internal 2x 2.5" HDD - IPMI 2.0 + KVM with dedicated LAN - GPU health monitoring with fan speed control	- Up to 4 double width GPU cards in 1U - Supports 16 DIMM DDR4-2133MHz 2000W Redundant Platinum Level high-efficiency power supplies 4x 2.5" SATA drives - IPMI 2.0 + KVM with dedicated LAN - GPU health monitoring with fan speed control	- Supports 16 DIMM DDR4-2133MHz 4x 2.5" SATA drives - GPU health monitoring with fan speed control - Up to 3 GPU cards in 1U
Serverboard	SUPER● X10DGQ	SUPER● X10DGQ	-TR: SUPER● X10DRG-H -TRT: SUPER● X10DRG-HT
Chipset	Intel® C612 Chipset	Intel® C612 Chipset	Intel® C612 Chipset
System Memory (Max.)*	Up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots	Up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots	Up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots
Expansion Slots	3 PCI-E by 16 slots 1 PCI-E by 8 low profile slot	4 PCI-E 3.0 x16 slots (4x GPU/Coprocessor opt.) 2 PCI-E 3.0 x8 (in x16) low profile slot	3 PCI-E 3.0 x16 slots (3x GPU/Coprocessor opt.) 1 PCI-E 3.0 x8 (in x16) low profile slot
Onboard Storage Controller	Intel® C612 controller for 4 SATA3 (6Gbps) Ports; RAID 0,1,5,10	Intel® C612 controller for 4 SATA3 (6Gbps) Ports; RAID 0,1,5,10	Intel® C612 controller for 4 SATA3 (6Gbps) Ports; RAID 0,1,5,10
Connectivity	-TXR: Dual LAN with Intel® i350 Gigabit Ethernet controller -TXRT: Dual 10Gb Ethernet LAN with Intel® X540 and 10GBase-T Connector	-TR: Dual LAN with Intel® i350 Gigabit Ethernet controller -TRT: Dual 10Gb Ethernet LAN with Intel® X540 and 10GBase-T Connector	-TR: Dual LAN with Intel® i350 Gigabit Ethernet controller -TRT: Dual 10Gb Ethernet LAN with Intel® X540 and 10GBase-T Connector
VGA/Audio	AST2400 VGA	AST2400 VGA	AST2400 VGA
Management	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog
Drive Bays	2x 2.5" hot-swap SATA drive bays; 2x 2.5" internal HDDs	2x 2.5" hot-swap SATA drive bays; 2x 2.5" internal HDDs	4x 2.5" hot-swap SAS/SATA drive bays
Peripheral Bays	N/A	N/A	N/A
Power Supply	Redundant 2000W Titanium Level high-efficiency power supplies	Redundant 2000W Platinum Level high-efficiency power supplies	Redundant 1600W Platinum Level high-efficiency power supplies
Cooling System	9x 4cm heavy duty counter-rotating PWM fans with air shroud with optimal fan speed control	9x 4cm heavy duty counter-rotating PWM fans with air shroud with optimal fan speed control	10x 4cm heavy duty counter-rotating PWM fans with air shroud with optimal fan speed control
Form Factor	1U Rackmount 437 x 43 x 894mm (17.2" x 1.7" x 35.2")	1U Rackmount 437 x 43 x 894mm (17.2" x 1.7" x 35.2")	1U Rackmount 437 x 43 x 777mm (17.2" x 1.7" x 30.6")

* Please check with your Supernova sales representative and website for compatibility and configuration details

Data Center Optimized



Data Center Optimized



MODEL	SYS-6018R-MD <i>(shown)</i> SYS-6018R-MDR	SYS-6018R-TD
Processor Support	Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s	Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s
Key Applications	• Data Center • Cloud and Virtualization needs • Hosting & Application delivery • Simulation & Automation	• Data Center • Cloud and Virtualization needs • Hosting & Application delivery • Database Processing & Storage • Simulation & Automation
Outstanding Features	• 500W Platinum Level high-efficiency power supply; or Redundant 400W Gold Level high-efficiency power supplies • IPMI 2.0 + KVM with Dedicated LAN • Cost Effective	• 480W Platinum Level high-efficiency power supply • IPMI 2.0 + KVM with Dedicated LAN • Cost Effective
Serverboard	SUPER [®] X10DRD-L	SUPER [®] X10DRD-L
Chipset	Intel® C612 Chipset	Intel® C612 Chipset
System Memory (Max.)*	Up to 1TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 8 DIMM slots	Up to 1TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 8 DIMM slots
Expansion Slots	1 PCI-E 3.0 x8 (Full-Height, Half-Length)	1 PCI-E 3.0 x8 (Full-Height, Half-Length)
Onboard Storage Controller	Intel® C612 controller for 4 SATA3 (6Gbps) ports; RAID 0,1	Intel® C612 controller for 6 SATA3 (6Gbps) ports; RAID 0,1,5,10
Connectivity	Dual LAN with Intel® i350 Gigabit Ethernet controller	Dual LAN with Intel® i350 Gigabit Ethernet controller
VGA/Audio	AST2400 VGA	AST2400 VGA
Management	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog
Drive Bays	-MD: 2x 2.5" or 1x 3.5" fixed SATA drive bays with bracket -MDR: 2x 2.5" fixed SATA drive bays with bracket	4x 3.5" hot-swap SATA HDD drive bays
Peripheral Bays	N/A	1 slim DVD-ROM drive (optional)
Power Supply	-MD: 500W Platinum Level high-efficiency power supply -MDR: Redundant 400W Gold Level high-efficiency power supplies	480W Platinum Level high-efficiency power supply
Cooling System	5x 4cm heavy duty counter-rotating fans with optimal fan speed control	2x blower + 1x 4cm fans with optimal fan speed control
Form Factor	1U Rackmount 437 x 43 x 429mm (17.2" x 1.7" x 16.9")	1U Rackmount 437 x 43 x 650mm (17.2" x 1.7" x 25.6")

* Please check with your Supermicro sales representative and website for compatibility and configuration details

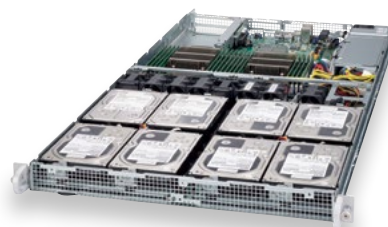


Data Center Optimized

Onboard Dual SFP+



Data Center Optimized



MODEL	SYS-6018R-TDTP/TDTPR _(shown)	SYS-6018R-TD8
Processor Support	Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s	Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s
Key Applications	- Data Center - Cloud and Virtualization needs - Hosting & Application delivery - Database Processing & Storage - Simulation & Automation	- Data Center - Cloud and Virtualization needs - Hosting & Application delivery - Database Processing & Storage - Simulation & Automation
Outstanding Features	600W Platinum Level High-Efficiency Power Supply; or 500W Redundant Platinum Level - IPMI 2.0 + KVM with Dedicated LAN 2x 10G SFP+ onboard	650W Platinum Level high-efficiency power supply - IPMI 2.0 + KVM with Dedicated LAN 16 DIMM DDR4-2133MHz - Up to 3 add-on cards 8x 3.5" & 2x 2.5" Fixed SATA Drives
Serverboard	SUPER [®] X10DRD-LTP	SUPER [®] X10DDW-i
Chipset	Intel® C612 Chipset	Intel® C612 Chipset
System Memory (Max.)*	Up to 1TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 8 DIMM slots	Up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots
Expansion Slots	1 PCI-E 3.0 x8 (Full-Height, Half-Length)	2 PCI-E 3.0 x16 (Full-Height, Half-Length) 1 PCI-E 3.0 (LP)
Onboard Storage Controller	Intel® C612 controller for 6 SATA3 (6Gbps) ports; RAID 0,1,5,10	Intel® C612 controller for 10 SATA3 (6Gbps) ports; RAID 0,1,5,10
Connectivity	Dual LAN with Intel® 82599ES 10 Gigabit Ethernet w/ SFP+	Dual LAN with Intel® i350 Gigabit Ethernet controller
VGA/Audio	AST2400 VGA	AST2400 VGA
Management	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog
Drive Bays	4x 3.5" hot-swap SATA HDD drive bays	8x 3.5" & 2x 2.5" Fixed SATA drive bays
Peripheral Bays	1 slim DVD-ROM drive (optional)	N/A
Power Supply	-TDTP: 600W Platinum Level high-efficiency power supply -TDTPR: 500W Redundant Platinum Level high-efficiency power supplies	650W Platinum Level high-efficiency power supply
Cooling System	5x 4cm heavy duty counter-rotating fans with optimal fan speed control	6x 4cm heavy duty counter-rotating fans with optimal fan speed control
Form Factor	1U Rackmount 437 x 43 x 650mm (17.2" x 1.7" x 25.6")	1U Rackmount 437 x 43 x 813mm (17.2" x 1.7" x 32")

* Please check with your Supermicro sales representative and website for compatibility and configuration details

Data Center Optimized



Data Center Optimized



MODEL	SYS-6018R-TDW	SYS-1028R-TDW
Processor Support	Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s	Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s
Key Applications	- Data Center - Cloud and Virtualization needs - Hosting & Application delivery - Database Processing & Storage - Simulation & Automation	- Data Center - Cloud and Virtualization needs - Hosting & Application delivery - Database Processing & Storage - Simulation & Automation
Outstanding Features	600W Platinum Level high-efficiency power supply - IPMI 2.0 + KVM with Dedicated LAN 16 DIMM DDR4-2133MHz - Up to 3 add-on cards	600W Platinum Level high-efficiency power supply - IPMI 2.0 + KVM with Dedicated LAN 16 DIMM DDR4-2133MHz - Up to 3 add-on cards
Serverboard	SUPER [®] X10DDW-i	SUPER [®] X10DDW-i
Chipset	Intel® C612 Chipset	Intel® C612 Chipset
System Memory (Max.)*	Up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots	Up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots
Expansion Slots	2 PCI-E 3.0 x16 (Full-Height, Half-Length) 1 PCI-E 3.0 (LP) 1 slot for SAS controller mezzanine card	2 PCI-E 3.0 x16 (Full-Height, Half-Length) 1 PCI-E 3.0 (LP) 1 slot for SAS controller mezzanine card
Onboard Storage Controller	Intel® C612 controller for 4 SATA3 (6Gbps) Ports; RAID 0,1,5,10	Intel® C612 controller for 8 SATA3 (6Gbps) Ports; RAID 0,1,5,10
Connectivity	Dual LAN with Intel® i350 Gigabit Ethernet controller	Dual LAN with Intel® i350 Gigabit Ethernet controller
VGA/Audio	AST2400 VGA	AST2400 VGA
Management	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog
Drive Bays	4x 3.5" hot-swap SATA HDD drive bays	8x 2.5" hot-swap SATA HDD drive bays
Peripheral Bays	1 slim DVD-ROM drive (optional)	1 slim DVD-ROM drive (optional)
Power Supply	600W Platinum Level high-efficiency power supply	600W Platinum Level high-efficiency power supply
Cooling System	5x 4cm heavy duty counter-rotating fans with optimal fan speed control	5x 4cm heavy duty counter-rotating fans with optimal fan speed control
Form Factor	1U Rackmount 437 x 43 x 650mm (17.2" x 1.7" x 25.6")	1U Rackmount 437 x 43 x 597mm (17.2" x 1.7" x 23.5")

* Please check with your Supermicro sales representative and website for compatibility and configuration details



W10

NVMe Optimized



W10

Short-Depth 16.9"
Compact

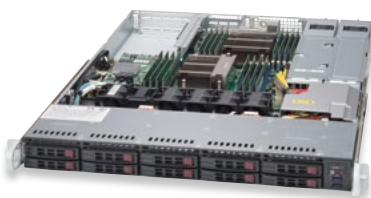


MODEL	SYS-1028R-WTNR SYS-1028R-WTNR-T	SYS-1028R-WMR SYS-1028R-WMRT
Processor Support	Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s	Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s; up to 145W TDP
Key Applications	- Enterprise Performance Native NVMe - Cost-effective Storage optimized 8 SATA3 ports and 2 NVMe/SATA3 hybrid ports - High-density, Enterprise Performance, Cost-effective 16 DIMM slots	- File/Print Server - Application and data serving - Clone of Server Clustering - Business Critical Applications
Outstanding Features	700W/750W Platinum Level high-efficiency power supply - IPMI 2.0 + KVM with Dedicated LAN 16 DIMM slots - Up to 2 add-on cards	- Supports up to 2x AOCs - Short-Depth 16.9"
Serverboard	-WTNR: SUPER [®] X10DRW-N -WTNR-T: SUPER [®] X10DRW-NT	-WMR: SUPER [®] X10DRW-E -WMRT: SUPER [®] X10DRW-ET
Chipset	Intel® C612 Chipset	Intel® C612 Chipset
System Memory (Max.)*	Up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots	Up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots
Expansion Slots	2 PCI-E 3.0 x16 full-height, half-length slots	2 PCI-E 3.0 x16 full-height, half-length slots
Onboard Storage Controller	Intel® C612 controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10	Intel® C612 controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10
Connectivity	-WTNR: Dual LAN with Intel® Ethernet Controller i350-AM2 -WTNR-T: Dual LAN with Intel® X540 10GBase-T Ethernet Controller;	-WMR: 2x RJ45 Gigabit Ethernet LAN ports 1x RJ45 Dedicated IPMI LAN port -WMRT: Dual LAN with Intel® X540 10GBase-T Ethernet Controller;
VGA/Audio	AST2400 VGA	AST2400 VGA
Management	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog
Drive Bays	8 SATA3 ports and 2 NVMe/SATA3 hybrid ports	2x 2.5" fixed with bracket
Peripheral Bays	N/A	N/A
Power Supply	700W/750W redundant Platinum Level (PWS-706) or Gold Level (PWS-704) high-efficiency power supplies	400W Redundant Gold Level power supplies
Cooling System	5x 4cm heavy duty counter-rotating fans with optimal fan speed control	4x 40x56mm PWM fan; ; 2x fans for AOC cooling
Form Factor	1U Rackmount 437 x 43 x 630mm (17.2" x 1.7" x 24.8")	1U Rackmount 437 x 43 x 429mm (17.2" x 1.7" x 16.9")

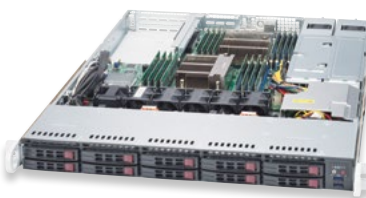
* Please check with your Supermicro sales representative and website for compatibility and configuration details



W10 1U
12Gbps SAS 3.0 HW RAID
Optional NVMe



W10 1U
10 SATA3 2.5"



W10 1U



MODEL	SYS-1028R-WC1R(T)	SYS-1028R-WTR(T)	SYS-6018R-WTR(T)
Processor Support	Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s		
Key Applications	- Downloads - e-Business - Email Server - Enterprise Server - Web Server	- Hosting - Cloud & Virtualization - VDI - Unified Communications	- Hosting - Cloud & Virtualization - VDI - Unified Communications
Outstanding Features	2 SATA DOM support with built-in power - SAS 3.0 (12Gbps) support 16 DIMM slots - Up to 2 add-on cards - Redundant 700W/750W Platinum Level high efficiency power supplies - Optional two 2.5" NVMe drives support	2 SATA DOM support with built-in power 16 DIMM slots - Up to 2 add-on cards - Redundant 700W/750W Platinum Level high efficiency power supplies 10x SATA3 ports	2 SATA DOM support with built-in power 2x 10GBase-T Ports - Redundant 700W/750W Platinum Level high efficiency power supplies 16 DIMM slots - Up to 2 add-on cards
Serverboard	-WC1R: SUPER● X10DRW-i -WC1RT: SUPER● X10DRW-iT	-WTR: SUPER● X10DRW-i -WTRT: SUPER● X10DRW-iT	-WTR: SUPER● X10DRW-i -WTRT: SUPER● X10DRW-iT
Chipset	Intel® C612 Chipset	Intel® C612 chipset	Intel® C612 chipset
System Memory (Max.)*	Up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots	Up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots	Up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots
Expansion Slots	2 PCI-E 3.0 x16 (FHHL)	2 PCI-E 3.0 x16 (FHHL) 1 PCI-E 3.0 x8 Mezzanine for HBA cards	2 PCI-E 3.0 x16 (FHHL) 1 PCI-E 3.0 x8 Mezzanine for HBA cards
Onboard Storage Controller	SAS3 Broadcom 3108 (12Gbps) HW RAID controller for 8 SAS3 (12Gbps) ports; RAID 0,1,5,6,10,50,60; 2GB DDR3 Cache; C612 controller for 2 SATA3 (6Gbps) ports; RAID 0,1	Intel® C612 controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10	Intel® C612 controller for 4 SATA3 (6 Gbps) ports; RAID 0,1,5,10
Connectivity	-WC1R: Dual LAN with Intel® i350 Gigabit Ethernet Controllers -WC1RT: Dual 10Gb Ethernet LAN with Intel® X540 and 10GBase-T Connector	-WTR: Dual LAN with Intel® i350 Gigabit Ethernet Controllers -WTRT: Dual 10Gb Ethernet LAN with Intel® X540 and 10GBase-T Connector	-WTR: Dual LAN with Intel® i350 Gigabit Ethernet Controllers -WTRT: Dual 10Gb Ethernet LAN with Intel® X540 and 10GBase-T Connector
VGA/Audio	AST2400 VGA	AST2400 VGA	AST2400 VGA
Management	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog
Drive Bays	8x 2.5" hot-swap SAS/SATA + 2x 2.5" SATA/NVMe drive bays	10x 2.5" hot-swap SAS/SATA drive bays	4x 3.5" hot-swap SAS/SATA drive bays
Peripheral Bays	N/A	N/A	1 slim DVD-ROM drive (optional)
Power Supply	Redundant 700W/750W Platinum Level high-efficiency power supplies with iFC & PMBus	Redundant 700W/750W Platinum Level high-efficiency power supplies with iFC & PMBus	Redundant 700W/750W Platinum Level high-efficiency power supplies with iFC & PMBus
Cooling System	5x 4cm heavy duty counter-rotating fans with air shroud with optimal fan speed control	5x 4cm heavy duty counter-rotating fans with air shroud with optimal fan speed control	5x 4cm heavy duty counter-rotating fans with air shroud with optimal fan speed control
Form Factor	1U Rackmount 437 x 43 x 597mm (17.2" x 1.7" x 23.5")	1U Rackmount 437 x 43 x 597mm (17.2" x 1.7" x 23.5")	1U Rackmount 437 x 43 x 650mm (17.2" x 1.7" x 25.6")

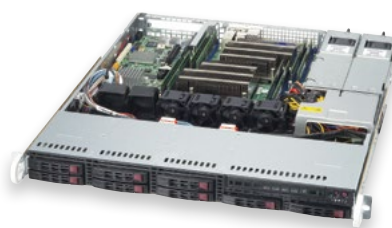
* Please check with your Supermicro sales representative and website for compatibility and configuration details



Short Depth SAS3



Short Depth, 10GbE, SAS3 Redundant Power Supplies



MODEL	SYS-1028R-MCT	SYS-1028R-MCTR
Processor Support	Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s	Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s
Key Applications	- Data Center - Web Server - Enterprise Server - Managed Hosting	- Data Center - Web Server - Enterprise Server - Managed Hosting
Outstanding Features	- IPMI 2.0 + KVM with dedicated LAN 600W Platinum Level high-efficiency power supply - Short-Depth 2x 10GBase-T Ports - Broadcom 3108 controller for 8 SAS3 (12Gbps) hot-swappable drives	- IPMI 2.0 + KVM with dedicated LAN - Redundant 600W Platinum Level high-efficiency power supplies - Short-Depth 2x 10GBase-T Ports - Broadcom 3108 controller for 8 SAS3 (12Gbps) hot-swappable drives
Serverboard	SUPER [®] X10DRL-CT	SUPER [®] X10DRL-CT
Chipset	Intel® C612 Chipset	Intel® C612 Chipset
System Memory (Max.)*	Up to 1TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 8 DIMM slots	Up to 1TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 8 DIMM slots
Expansion Slots	1 PCI-E 3.0 x8	1 PCI-E 3.0 x8
Onboard Storage Controller	Broadcom 3108 HW with 2G Cache controller for 8 SAS3 (12Gbps) ports; RAID 0,1,5,6,10,50,60; Intel® C612 controller for 6 SATA3 (6Gbps) ports; RAID 0,1,5,10	Broadcom 3108 HW with 2G Cache controller for 8 SAS3 (12Gbps) ports; RAID 0,1,5,6,10,50,60; Intel® C612 controller for 6 SATA3 (6Gbps) ports; RAID 0,1,5,10
Connectivity	Dual LAN with Intel® Ethernet Controller I210; Dual LAN with Intel® X540 10GBase-T Ethernet Controller	Dual LAN with Intel® Ethernet Controller I210; Dual LAN with Intel® X540 10GBase-T Ethernet Controller
VGA/Audio	AST2400 VGA	AST2400 VGA
Management	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog
Drive Bays	8x 2.5" hot-swap SATA/SAS drive bays	8x 2.5" hot-swap SATA/SAS drive bays
Peripheral Bays	1 slim DVD-ROM drive (optional)	1 slim DVD-ROM drive (optional)
Power Supply	600W Platinum Level high-efficiency power supply	Redundant 600W Platinum Level high-efficiency power supplies
Cooling System	4x 4cm high performance PWM fans with optimal fan speed control	4x 4cm high performance PWM fans with optimal fan speed control
Form Factor	1U Rackmount 437 x 43 x 503mm (17.2" x 1.7" x 19.8")	1U Rackmount 437 x 43 x 503mm (17.2" x 1.7" x 19.8")

* Please check with your Supermicro sales representative and website for compatibility and configuration details

Short Depth

DDR4 8x DIMMs

WIO

Mainstream UP



MODEL	SYS-6018R-MT SYS-6018R-MTR	SYS-1019S-WR	SYS-5019S-L
Processor Support	Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s	Intel® Xeon® processor E3-1200 v6/v5, 6th Gen. Intel® Core™ i3 processor, Intel® Pentium® Processor, Intel® Celeron® Processor product families supported	Intel® Xeon® processor E3-1200 v6/v5, 6th Gen. Intel® Core™ i3 processor, Intel® Celeron® processor, Intel® Pentium® processor product families, Socket H4 (LGA 1151) supported
Key Applications	- Data Center - Web Server - Enterprise Server - Managed Hosting	- Appliance Server - Embedded Applications	Low Power, Low Cost Applications
Outstanding Features	400W Redundant Gold Level high-efficiency power supplies - IPMI 2.0 + KVM with dedicated LAN - Short-Depth	- Max. I/O solution 1 x4, and 2 x8 or 1 x16 optional expansion slots - Support 1 double width GPU card (option) - Quick Release Rail - M.2 PCI-E 3.0 x4 support 2260	- Supports Low Power CPU - Compact Form Factor - Less than 12 inches depth 1x PCI-E 3.0 x8 expansion slot - Up to 1x internal 3.5", 2x 2.5" drives (option)
Serverboard	SUPER● X10DRL-i	SUPER● X11SSW-F	SUPER● X11SSL-F
Chipset	Intel® C612 Chipset	Intel® C236 chipset	Intel® C232 Express chipset
System Memory (Max.)*	Up to 1TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 8 DIMM slots	Up to 64GB Unbuffered ECC, DDR4-2133MHz in 4 DIMM slots	Up to 4x ECC UDIMM slots, up to 64GB DDR4-2133MHz
Expansion Slots	1 PCI-E 3.0 x8	1 PCI-E 3.0 x16 or 2 x8 Left Riser Slot; 1 PCI-E 3.0 x4 (in x8 slot)	1x PCI-E 3.0 x8 expansion slot
Onboard Storage Controller	Intel® C612 controller for 4 SATA3 (6Gbps) ports; RAID 0,1,5,10	Intel® C236 controller for 6 SATA3 (6 Gbps) ports; RAID 0,1,5,10	Intel® C232 Express chipset
Connectivity	Dual Intel® i210 single port Gigabit Ethernet LAN	Dual LAN with Intel® Ethernet Controller I210-AT	2x USB 2.0, USB 3.0, VGA, Serial
VGA/Audio	AST2400 VGA	1 Aspeed AST2400 BMC	Integrated video from Aspeed BMC
Management	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog	Intel® Node Manager; IPMI2.0; NMI; SPM; SSM; SUM; SuperDoctor® 5; Watchdog	Built-in Aspeed BMC with IPMI 2.0, KVM, and more
Drive Bays	4x 3.5" hot-swap SATA drive bays	Internal 2x 2.5" SATA	Up to 1x internal 3.5", 2x 2.5" drives (option)
Peripheral Bays	1 slim DVD-ROM drive (optional)	N/A	N/A
Power Supply	-MT: 480W Platinum Level high-efficiency power supply; -MTR: Redundant 400W Gold Level high-efficiency power supplies	400W Platinum Level 1U Redundant Power Supplies with PMbus	200W high-efficiency power supply
Cooling System	4x 4cm heavy duty counter-rotating fans with optimal fan speed control	4x 40x56mm PWM fan; 2x fans for AOC cooling	2x 4cm chassis internal fan
Form Factor	1U Rackmount 437 x 43 x 503mm (17.2" x 1.7" x 19.8")	1U Rackmount 437 x 43 x 429mm (17.2" x 1.7" x 16.9")	1U rackmount 437 x 43 x 287mm (17.2" x 1.7" x 11.3")

* Please check with your Supermicro sales representative and website for compatibility and configuration details

Mainstream UP



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MODEL	SYS-5019S-ML	SYS-5019S-M	SYS-5019S-MR
Processor Support	Intel® Xeon® processor E3-1200 v6/v5, 6th Gen. Intel® Core™ i3 processor, Intel® Celeron® processor, Intel® Pentium® processor product families, Socket H4 (LGA 1151) supported	Intel® Xeon® processor E3-1200 v6/v5, 6th Gen. Intel® Core™ i3 processor, Intel® Celeron® processor, Intel® Pentium® processor product families, Socket H4 (LGA 1151) supported	Intel® Xeon® processor E3-1200 v6/v5, 6th Gen. Intel® Core™ i3 processor, Intel® Celeron® processor, Intel® Pentium® processor product families, Socket H4 (LGA 1151) supported
Key Applications	Entry level, Cost effective	- High Flexibility, VM, Communication - File/Print, Web Hosting	- HA, File/Print Server - Web Hosting, VM
Outstanding Features	- Support Intel® VHD (with selected CPU) and NM - M.2 mini-PCI-E connector: Support 2280 - Compact, less than 15 inches depth - Up to 2x internal 3.5", 3x 2.5" drives (option)	- M.2 mini-PCI-E support 2280 form factor - Up to 4 hot-swap 3.5" drives - Front USB 3.0 ports - Quick Release Rails 1x PCI-E 3.0 x8 (x16) expansion slot - SuperDOM support (SATA DOM support) 2x GbE port, 1x dedicated IPMI port	- M.2 PCI-E support 2280 form factor - Supermicro Battery Back Up (BBP) option - Support Intel® VHD (with selected CPU) and NM - Redundant 400W high-efficiency power - Up to 4 hot-swap 3.5" drives - Internal fixed drive options 2x GbE port, 1x dedicated IPMI port - Front USB 3.0 ports - Quick Release Rails
Serverboard	SUPER● X11SSH-F	SUPER● X11SSH-F	SUPER● X11SSH-F
Chipset	Intel® C236 Express chipset	Intel® C236 Express chipset	Intel® C236 Express chipset
System Memory (Max.)*	Up to 4x ECC UDIMM slots, up to 64GB DDR4-2133MHz	Up to 4x ECC UDIMM slots, up to 64GB DDR4-2133MHz	Up to 4x ECC UDIMM slots, up to 64GB DDR4-2133MHz
Expansion Slots	1x PCI-E 3.0 x8 add-on card slot	1x PCI-E 3.0 x8 (in x16)	1x PCI-E 3.0 x8 (in x16)
Onboard Storage Controller	Intel® C236 Express chipset	Intel® C236 Express chipset	Intel® C236 Express chipset
Connectivity	USB 3.0, 2x USB 2.0, VGA, Serial	2x USB 3.0 (front/rear), USB 2.0, VGA, Serial	2x USB 3.0 (front/rear), USB 2.0, VGA, Serial
VGA/Audio	Integrated VGA from Aspeed BMC	Integrated VGA from Aspeed BMC	Integrated video from Aspeed BMC
Management	IPMI 2.0 + KVM with dedicated LAN, SuperDoctor® 5, Watchdog	IPMI 2.0 + KVM with dedicated LAN, SuperDoctor® 5, Watchdog	Built-in Aspeed BMC with IPMI 2.0, KVM, and more
Drive Bays	Up to 2x internal 3.5"; 3x 2.5" drives (option)	4x 3.5" Hot-swap SATA3 bays w/ RAID	4x 3.5" Hot-swap SATA3 bays w/ RAID
Peripheral Bays	1x slim DVD-ROM drive bay	1x slim DVD-ROM drive bay	1x slim DVD-ROM drive bay
Power Supply	350W high-efficiency power supply	350W high-efficiency power supply	Redundant 400W high-efficiency power Supermicro Battery Back Up (BBP) option
Cooling System	2x 4cm chassis internal fan	4x 4cm chassis internal fan	4x 4cm chassis internal fan
Form Factor	1U Rackmount 437 x 43 x 366mm (17.2" x 1.7" x 14.4")	1U Rackmount 437 x 43 x 503mm (17.2" x 1.7" x 19.8")	1U Rackmount 437 x 43 x 503mm (17.2" x 1.7" x 19.8")

* Please check with your Supermicro sales representative and website for compatibility and configuration details

Mainstream UP

Mainstream UP

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MODEL	SYS-5019S-MN4	SYS-5019S-WR	SYS-5019S-MT
Processor Support	Intel® Xeon® processor E3-1200 v6/v5, 6th Gen. Intel® Core™ i3 processor, Intel® Celeron® processor, Intel® Pentium® processor product families, Socket H4 (LGA 1151) supported	Intel® Xeon® processor E3-1200 v6/v5, 6th Gen. Intel® Core™ i3 processor, Intel® Celeron® processor, Intel® Pentium® processor product families, Socket H4 (LGA 1151) supported	Intel® Xeon® processor E3-1200 v6/v5, 6th Gen. Intel® Core™ i3 processor, Intel® Celeron® processor, Intel® Pentium® processor product families, Socket H4 (LGA 1151) supported
Key Applications	- General purpose, SMB, Web Hosting - Domain Controller, File/Print - Front USB 3.0 ports - Quick Release Rails	HA, High flexibility, VM, Communication	- Storage HN, VM, Hosting Server - Compact File Server
Outstanding Features	- M.2 mini-PCI-E support 2280 - Support Intel® VHD (with selected CPU) and NM - SATA DOM support 4x GbE LAN ports	- Quick Release Rails 2x PCI-E 3.0 x8, 1x PCI-E 3.0 x4 (x8) add-on card slot - M.2 mini-PCI-E connector (PCI-E 3.0 x2) 2x PCI-E 3.0 x8 (or 1x16) and 1 x8 (x4 signal) add-on card slots 1+1 Redundant 500W high-efficiency power - Up to 4 hot-swap 3.5" drives	2x 10G Base-T LAN ports - Intel® Node Management - Up to 4x hot-swap 3.5" SATA3 drives - Optional slim optical drive or fixed internal 1x PCI-E add-on card slot - Front USB 3.0 ports - Quick Release Rails - M.2 PCI-E x4 support 2260
Serverboard	SUPER● X11SSH-LN4F	SUPER● X11SSW-F	SUPER● X11SSH-TF
Chipset	Intel® C236 Express chipset	Intel® C236 Express chipset	Intel® C236 Express Chipset
System Memory (Max.)*	Up to 4x ECC UDIMM slots, up to 64GB DDR4-2133MHz	Up to 4x ECC UDIMM slots, up to 64GB DDR4-2133MHz	Up to 4x ECC UDIMM slots, up to 64GB DDR4-2133MHz
Expansion Slots	1x PCI-E 3.0 x8 (in x16)	2x PCI-E 3.0 x8 1x PCI-E 3.0 x4 (x8) add-on card slot	1x PCI-E 3.0 x8 (in x16) add-on card slot
Onboard Storage Controller	Intel® C236 Express chipset	Intel® C236 Express chipset	Intel® C236 Express Chipset
Connectivity	Quad LAN with Intel® Ethernet Controller i210-AT; 2x USB 3.0 (front/rear), USB 2.0, VGA, Serial	USB 2.0, USB 3.0, VGA, Serial	2x USB 2.0, USB 3.0(front/rear), VGA, Serial
VGA/Audio	Integrated video from Aspeed BMC	Integrated VGA from Aspeed BMC	Integrated video from Aspeed BMC
Management	Built-in Aspeed BMC with IPMI 2.0, KVM, and more	IPMI 2.0 + KVM with dedicated LAN, SuperDoctor™ 5, Watchdog	Built-in Aspeed BMC with IPMI 2.0, KVM, and more
Drive Bays	4x 3.5" Hot-swap SATA3 bays w/ RAID	Up to 4 hot-swap 3.5" drives	Up to 4x hot-swap 3.5" SATA3 drives
Peripheral Bays	1x slim DVD-ROM drive bay	1x slim DVD-ROM drive bay	330W high-efficiency power supply
Power Supply	350W high-efficiency power supply	350W high-efficiency power supply	350W high-efficiency power supply
Cooling System	4x 4cm chassis internal fan	4x 4cm chassis internal fan	4x 4cm chassis internal fan
Form Factor	1U Rackmount 437 x 43 x 503mm (17.2" x 1.7" x 19.8")	1U Rackmount 437 x 43 x 650mm (17.2" x 1.7" x 25.6")	1U Rackmount 437 x 43 x 503mm (17.2" x 1.7" x 19.8")

* Please check with your Supermicro sales representative and website for compatibility and configuration details



Embedded



Mainstream UP



MODEL	SYS-5019S-TN4	SYS-1019S-MCOT
Processor Support	Intel® Xeon® Processor E3-1585 v5, Skylake-H	Intel® Xeon® processor E3-1200 v6/v5, 6th Gen. Intel® Core™ i3 processor, Intel® Pentium® Processor, Intel® Celeron® Processor product families supported
Key Applications	- Virtual Hosted Desktop(VHD) - Digital Recording System - Media/Content Streaming Server - Support Intel Quick Sync Video	- Storage HN, VM, Hosting Server - Compact File Server
Outstanding Features	- Faster Transcoding for Web Streaming 4x SATA3(6Gbps) via C236; RAID 0, 1, 5, 10 - Intel Iris Pro Graphics with 128M B of on-Package cache (eDRAM) for high performance graphics - VHD, Media CODEC (HEVC, JPEG, VP8) and IPMI 2.0 (Shared LAN) - Up to 18 AVC streams or 8 HEVC streams at 1080p 30FPS, or 2 HEVC streams at 4K 30FPS	2x 10G GbE port - Quick Release Rails - Intel Node Management - M.2 PCI-E 3.0 x4 support 2260 - Broadcom 3008 SAS3 built-in - Up to 8x 2.5" hot-swap SAS3 - Option slim optical drive or fixed internal drive 1 PCI-E add-on slot
Serverboard	SUPERMICRO® X11SSV-M4F	SUPERMICRO® X11SSH-CTF
Chipset	Intel® C236 Express chipset	Intel® C236 Express chipset
System Memory (Max.)*	Up to 32GB ECC Unbuffered SO-DIMM DDR4 2133MHz; 2 DIMM slots	Up to 4x ECC/non-ECC UDIMM slots, up to 64GB DDR4-2133MHz
Expansion Slots	1x PCI-E 3.0 x16 1x M.2 (M key, 2242/80/110, PCI-E3.0 x4 or SATA3) 1x Mini PCI-E w/ mSATA	1 PCI-E 3.0 x8 (in x16) add-on card slot
Onboard Storage Controller	N/A	Intel® C236 Express chipset Broadcom 3008 SAS3 built-in
Connectivity	4x 1GbE LAN 4x USB 3.0	2x USB 2.0, USB 3.0, VGA, Serial
VGA/Audio	1x BMC VGA (DVI-A) ALC 888S HD Audio	Integrated video from Aspeed BMC
Management	IPMI 2.0	Built-in Aspeed BMC with IPMI 2.0, KVM, and more
Drive Bays	2x 3.5" or 4x 2.5" HDD	8x hot-swap 2.5" HDD
Peripheral Bays	N/A	1x slim DVD-ROM drive bay
Power Supply	200W Low Noise AC-DC power supply with PFC	Single 330W high-efficiency power supply
Cooling System	3x 4028mm chassis fan 22K RPM 4-PIN PWM FAN with air shroud	3x 4cm chassis internal fan
Form Factor	Short Depth 1U Rackmount 432 x 43 x 249mm (17.2" x 1.7" x 9.8")	1U Rackmount 437 x 43 x 507.5mm (17.2" x 1.7" x 19.98")

* Please check with your Supermicro sales representative and website for compatibility and configuration details



Embedded

Security and Surveillance
Appliance Server, UP



Embedded

vPro, 3 Independent Displays



MODEL	SYS-5019S-M2	SYS-1019S-M2
Processor Support	6th Gen Intel® Core™ i7 Processor, Intel® Xeon® processor E3-1200 v6/v5, Intel® Core™ i5 Processor, Intel® Core™ i3 Processor product families, Intel® Pentium® Processor, Intel® Celeron® Processor in LGA1151	6th Generation Intel® Core™ i7 Processor, Intel® Xeon® processor E3-1200 v6/v5, Intel® Core™ i5 Processor, Intel® Core™ i3 Processor, Intel® Pentium® Processor, Intel® Celeron® Processor product families, LGA1151 Socket H4 supported
Key Applications	- Security and Surveillance - Appliance Server - Secure Storage	- Industrial Automation & Control - Military Compact Server - VOIP and Network Appliance - Medical Applications
Outstanding Features	- Supports 6th Gen Intel® Core™ i7 Processor, Intel® Core™ i5 Processor, Intel® Core™ i3 Processor product families in 1U 2x DP, DVI-I, total 3x independent display 4x 3.5" SATA3 (SAS3 option) hot-swap drive bays - Intel® vPro™ and AMT 2x Gigabit LAN with AMT 1x PCI Express 3.0 x16 FH, FL slot 7 year life cycle	- Remote management via IPMI or vPro 2x Gigabit LAN ports, 3 independent displays, 2 display ports and 1 DVI-I - Full Height and Full Length add on card support - Power redundancy or BBP support - Embedded long life
Serverboard	SUPERMICRO X11SSZ-F	SUPERMICRO X11SSZ-QF
Chipset	Intel® C236 chipset	Intel® Q170
System Memory (Max.)*	Up to 4 DIMMs, 64 GB of 2133MHz DDR4 UDIMM NON-ECC	Up to 64GB Unbuffer, DDR4-2133MHz in 4 DIMM slots
Expansion Slots	1x PCI Express 3.0 x16 FH, FL slot	1 PCI-E 3.0 x16 (in x16 slot)
Onboard Storage Controller	Intel® C236 chipset	Intel® Q170 Express controller for 2 SATA3 (6 Gbps) ports; RAID 0,1
Connectivity	4x USB 3.0 (2x rear), 9x USB 2.0 (2x rear) 1x USB 2.0 Type A 2x Serial header 1x SuperDOM (shared) Audio header	2x USB 3.0, 2x USB 2.0 2x RJ45 Gigabit Ethernet LAN TPM Header
VGA/Audio	1 Aspeed AST2400 BMC	2 DP (DisplayPort), 1 DVI-I, 1 VGA, Intel® HD Graphics ALC 888S HD Audio
Management	Integrated BMC with IPMI 2.0, KVM	AMT; IPMI 2.0; KVM with dedicated LAN; NMI; SuperDoctor® 5; vPro; Watchdog
Drive Bays	4x 3.5" SATA3 (SAS3 option) hot-swap drive bays, Intel® RST	2x 2.5" fixed with bracket
Peripheral Bays	1x slim DVD-ROM drive bay	N/A
Power Supply	350W high-efficiency power supply	1x PWS-407P-1R, Platinum Level and support 2nd redundant PSU PWS-407P-1R or battery backup unit PWS-206B-1R (optional)
Cooling System	4x 4cm internal fans	4x 40x56mm PWM fan; 2x fans for AOC cooling (optional)
Form Factor	1U rackmount 437 x 43 x 594mm (17.2" x 1.7" x 23.4")	1U Rackmount 437 x 43 x 429mm (17.2" x 1.7" x 16.9")

* Please check with your Supermicro sales representative and website for compatibility and configuration details



Embedded



Embedded IOT Gateway with Intel Quark SoC 2.2W



Embedded Xeon D-1518 SoC, 4 Core



MODEL	SYS-1019S-MP	SYS-E100-8Q	SYS-E300-8D
Processor Support	Intel® Xeon® Processor E3-1515M v5 (Skylake-H), Single socket FCBGA 1440, 4-Core, 8 Threads, 45W	Intel® Quark™ SoC X1021; CPU TDP support 2.2W	Intel® Xeon® Processor D-1518, SoC 4 Core, 35W, 2.2 GHz
Key Applications	- Digital Signage - Kiosk, Interactive information system - Media Streaming server	- Intel Moon Island - Intel Gateway Solution of Internet of Things (formerly Moon Island) - Low Power SoC for IOT Gateway	- Embedded Networking Applications - Network Security Appliance - FireWall Applications - Virtualization Server
Outstanding Features	- Video Transcoding and Streaming - Intel Iris Pro Graphics P580 with 128MB of on-Package cache (eDRAM) for high performance graphics - HDMI, Display Port, DVI-I, 3 independent displays	- Low power Apollo Lake Pentium N4200, 4C - Fanless Compact Ruggedized Box PC 1 USB3.1, 2 USB 3.0, 4 USB 2.0 4 COM (RS-232/422/485) 2 Gigabit Ethernet Ports - DIO via DB9 1 Line_out, 1 Mic-in	- Dual SFP+ and 6x GbE - Short depth (less than 10 depth) - Low Power Xeon D SoC 4 Core - Best Performance per Watt 7 year life cycle - IPMI 2.0 management with dedicated LAN
Serverboard	SUPER● X11SSV-M4	SUPER● AT1SQN	SUPER● X10SDV-TP8F
Chipset	Intel® C236 chipset	X1021	System on Chip
System Memory (Max.)*	Up to 32GB ECC/Non-ECC Unbuffered SO-DIMM DDR4 2133MHz; 2 DIMM slots	Onboard 512MB DDR3 ECC memory	Up to 128GB ECC RDIMM DDR4 2133MHz or 64GB ECC/non-ECC UDIMM in 4 sockets
Expansion Slots	1 Mini-PCI-E (mSATA support), 1 M.2 PCI-E 3.0 x4 (SATA support), M Key 2242/80	2x Mini-PCI-E slots, 1x ZigBee module socket	1x PCI Express 3.0 x8 AOC slot (LP)
Onboard Storage Controller	Intel® CM236 controller for 4 SATA3 (6 Gbps) ports; RAID 0,1,5,10; Intel RSTe		SoC controller for 4x SATA3.0
Connectivity	4x 1GbE LAN, 4x USB 3.0	Dual LAN with SoC	2x USB 3.0, 1x M.2(M Key for SSD 2242/80/110, PCI-E/SATA3.0, 1x PCI-E /w mSATA
VGA/Audio	1 HDMI2.0, 1 DP1.2, 1 DVI-I, Intel Iris Pro Graphics P580, 3 independent displays ALC 888S HD Audio	1 HDMI and 1 VGA	VGA via BMC
Management	vPro AMT	Watchdog	Intel® Node Manager, IPMI2.0, KVM with dedicated LAN, NMI, SUM, SuperDoctor® 5, Watchdog
Drive Bays	1 internal 2.5" Hard Drive	N/A	1x 2.5" fixed drive bay with bracket. (No 2.5" fixed drive bay when AOC area is occupied.)
Peripheral Bays	N/A	N/A	N/A
Power Supply	84W DC power adapter	15W Power Adapter with 12V DC input	DC power adapter
Cooling System	2x 6cm cooling fan	Fanless Design	Passive CPU heat sink and 2x 40mm chassis fans
Form Factor	Mini-ITX box	IOT Gateway , 135 x 33 x 109mm (5.3" x 1.3" x 4.3")	Mini-1U 10" (254mm) x 1.7" (43mm) x 8.9" (226mm)

* Please check with your Supermicro sales representative and website for compatibility and configuration details



Embedded Extended Temperature Fanless Compact BOX PC



Embedded Industrial Ruggedized Fanless PC



Embedded Fanless Compact BOX PC



MODEL	SYS-E100-9AP	SYS-E100-9AP-IA	SYS-E100-9APP
Processor Support	Intel® Atom® Processor E3940	Intel® Atom® Processor E3940	Intel® Pentium™ Processor N4200
Key Applications	- IoT Gateway for Smart Factory, Smart Building, Smart Home - Kiosk, Interactive information system - Environmental Monitor - Industrial Application	- IoT Gateway for Smart Factory, Smart Building - Machine Automation - Industrial Application	- IoT Gateway for Smart Factory, Smart Building, Smart Home - Kiosk, Interactive information system - Environmental Monitor - Industrial Application
Outstanding Features	- Low power Apollo Lake Atom E3940, 4C - Fanless Compact Ruggedized Box PC 2 Gigabit Ethernet Ports 2 USB 3.0, 4 USB 2.0 4 COM (RS-232/422/485), 1 DIO via DB9 - TPM on board - Supports wide-temp: -20~60°C - Operational Vibration, IEC 60068-2-64 - Operational Shock, IEC 60068-2-27	- Low power Apollo Lake Atom E3940, 4C - Din-rail Fanless Ruggedized Box PC 2 Gigabit Ethernet Ports 4 COM (RS-232/422/485), 1 DIO via DB9 - TPM on board 1 Flexible I/O Slot (via mini PCI-E) 9-36 VDC Wide Range Power - Supports wide-temp: -20~60°C - Operational Vibration, IEC 60068-2-64 - Operational Shock, IEC 60068-2-27	- Low power Apollo Lake Pentium N4200, 4C - Fanless Compact Ruggedized Box PC 2 Gigabit Ethernet Ports 1 USB3.1, 2 USB 3.0, 4 USB 2.0 4 COM (RS-232/422/485), 1 DIO via DB9 - TPM on board 1 Line out, 1 Mic-in - Supports wide-temp: 0~40°C - Operational Vibration, IEC 60068-2-64 - Operational Shock, IEC 60068-2-27
Serverboard	SUPER● A2SAN-E	SUPER● A2SAN-E	SUPER● X11SAN
Chipset	System on Chip chipset	System on Chip chipset	System on Chip chipset
System Memory (Max.)*	1 non-ECC DDR3L SODIMM up to 8G	1 non-ECC DDR3L SODIMM up to 8G	1 non-ECC DDR3L SODIMM up to 8G
Expansion Slots	1 Full size Mini PCI-E (USB2.0 x1, PCI-E Gen 2 x1)	1 Full size Mini PCI-E (USB2.0 x1, PCI-E Gen 2 x1)	1 Full size Mini-PCI-E (USB 2.0 x1, PCI-E 2.0 x1)
Onboard Storage Controller	1 M.2 2280 B-Key for SATA or PCI-E SSD (2242 can be supported with bracket)	1 SATA SSD (SATA3)	1 M.2 2280 B-Key for SATA or PCI-E SSD (2242 can be supported with bracket)
Connectivity	Dual LAN with Intel® Ethernet Controller I210-IT	Dual LAN with Intel® Ethernet Controller I210-IT	Dual LAN with Intel® Ethernet Controller I210-IT
VGA/Audio	1 VGA and 1 HDMI ALC 888S HD Audio	1 VGA and 1 HDMI	1 VGA and 1 HDMI ALC 888S HD Audio
Management	SuperDoctor® 5, Watchdog	SuperDoctor® 5, Watchdog	SuperDoctor® 5, Watchdog
Drive Bays	N/A	1 HDD or SSD	N/A
Peripheral Bays	N/A	1 Flexible I/O Slot (via mini PCI-E)	N/A
Power Supply	Lockable 12V DC 40W power adapter	12V DC 60W power adapter, Terminal Block (option)	Lockable 12V DC 40W power adapter
Cooling System	Fanless Design	Fanless Design	Fanless Design
Form Factor	1U Wall-Mount optimized 195 x 44 x 151mm (7.68" x 1.73" x 5.94")	DIN Rail Mounting Optimized 194 x 80 x 126mm (7.64" x 3.15" x 4.96")	1U Wall-Mount optimized 195 x 44 x 151mm (7.68" x 1.73" x 5.94")

* Please check with your Supermicro sales representative and website for compatibility and configuration details



UP WIO

Flexible I/O, Storage Array



UP WIO

Flexible I/O, Storage Array



MODEL	SYS-5018R-WR	SYS-1018R-WCOR
Processor Support	Single Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s	Single Intel® Xeon® Processor E5-2600 v4/v3 product families supported
Key Applications	• Data Center • Data Deduplication & Replication • Database Processing & Storage • DataCenter Applications • Engineering Design • FireWall Applications	• DataCenter Applications • Security • Server Appliance • Video Server • Virtualization Server • Web Server
Outstanding Features	• Hot-swap 4x SATA3 drive bays • 2 PCI-E x16 3.0 slots • 1 PCI-E x8 slot • 2 Gigabit Ethernet Ports • Up to 3 add-on cards	• Hot-swap 8x SAS3 + 2x SATA3 drive bays • 2 PCI-E x16 3.0 slots • 1 PCI-E x8 slot • 2 Gigabit Ethernet Ports • Up to 3 add-on cards
Serverboard	SUPER● X10SRW-F	SUPER● X10SRW-F
Chipset	Intel® C612 Chipset	Intel® C612 Chipset
System Memory (Max.)*	Up to 1TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 8 DIMM slots	Up to 1TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 8 DIMM slots
Expansion Slots	2 PCI-E 3.0 x16, 1 PCI-E 3.0 x8 LP (Total 3 add-on card slots)	2 PCI-E 3.0 x16, 1 PCI-E 3.0 x8 (Total 3 add-on card slots)
Onboard Storage Controller	Intel® C612 controller for 4 SATA3 (6Gbps) ports; RAID 0,1,10	Intel® C612 controller for 10 SATA3 (6Gbps) ports; RAID 0,1,10; RSTe 4.0
Connectivity	2x GbE port, 2x USB 2.0, USB 3.0, VGA, Serial	2x GbE port, 2x USB 2.0, USB 3.0, VGA, Serial
VGA/Audio	AST2400 VGA	AST2400 VGA
Management	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog
Drive Bays	4x SATA3 hot-swap drive bays (w/ RAID option)	8x SATA3 (SAS3 option) + 2x SATA3 hot-swap drive bays (w/ RAID option)
Peripheral Bays	Optional slim optical device bay, optional FDD/USB bay	N/A
Power Supply	Redundant 500W Platinum Level high-efficiency power supplies	Redundant 750W Platinum Level high-efficiency power supplies
Cooling System	4x counter-rotating 40mm fans	6x counter-rotating 40mm fans
Form Factor	1U Rackmount 437 x 43 x 597mm (17.2" x 1.7" x 23.5")	1U Rackmount 437 x 43 x 597mm (17.2" x 1.7" x 23.5")

* Please check with your Supermicro sales representative and website for compatibility and configuration details



UP,
Cost-Effective
Redundant / Non-Redundant Options



UP,
Cost-Effective
Redundant / Non-Redundant Options



MODEL	SYS-5018R-M	SYS-5018R-MR
Processor Support	Single Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s	Single Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s
Key Applications	• DataCenter Applications • Server Appliance • Mainstream Server Usage • Mission-Critical	• DataCenter Applications • Server Appliance • Mainstream Server Usage • Mission-Critical
Outstanding Features	• 350W high-efficiency power supply • Short-depth (19.8"D)	• Redundant 400W high-efficiency power supplies w/ BBP™ module support • Short-depth (19.8"D)
Serverboard	SUPER● X10SRI-F	SUPER● X10SRI-F
Chipset	Intel® C612 chipset	Intel® C612 chipset
System Memory (Max.)*	Up to 1TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 8 DIMM slots	Up to 1TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 8 DIMM slots
Expansion Slots	1 x16 PCI-E 3.0 slot	1 x16 PCI-E 3.0 slot
Onboard Storage Controller	Intel® C612 controller for 4 SATA3 (6Gbps) ports; RAID 0,1,10	Intel® C612 controller for 4 SATA3 (6Gbps) ports; RAID 0,1,10
Connectivity	4x USB 2.0 (front/rear), USB 3.0, VGA, Serial	4x USB 2.0 (front/rear), USB 3.0, VGA, Serial
VGA/Audio	AST2400 VGA	AST2400 VGA
Management	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog
Drive Bays	4x 3.5" hot-swap SATA3 bays	4x 3.5" hot-swap SATA3 bays
Peripheral Bays	Optional slim optical device bay, optional FDD/USB bay	Optional slim optical device bay, optional FDD/USB bay
Power Supply	350W high-efficiency power supply	Redundant 400W high-efficiency power supplies with optional BBP™ module support
Cooling System	4x 40mm mid-fan	4x 40mm mid-fan
Form Factor	Short-depth 1U Rackmount 437 x 43 x 503mm (17.2" x 1.7" x 19.8")	Short-depth 1U Rackmount 437 x 43 x 503mm (17.2" x 1.7" x 19.8")

* Please check with your Supermicro sales representative and website for compatibility and configuration details

Embedded
Intel® Atom® Processor, 8-Core,
7 LAN with 6 ports bypass



Embedded
4 Core Apollo lake



Embedded
1U Compact Mini ITX BOX



Embedded
1U Compact Mini ITX BOX



MODEL	SYS-5018A-TN7B	SYS-E200-9AP	SYS-E200-9B	SYS-E200-8B
Processor Support	Intel® Atom® Processor C2758 Socket FCBGA1283 supported	Intel® Atom® Processor E3940 Socket FCBGA1296 supported	Quad-Core Intel® Pentium® Processor N3700 (6W, 4C)	Intel® Celeron™ Processor J1900 (10W, 4C)
Key Applications	- Network Security Appliance - FireWall Applications - Virtualization Server - Embedded Applications	- Digital Signage - Security Appliance and Video Surveillance - Indoor Kiosk	- Embedded Applications - Thin Client - Digital Signage - Indoor Kiosk - Networking Appliance	- Embedded Applications - Thin Client - Digital Signage - Indoor Kiosk
Outstanding Features	7xGbE LAN with 6 ports bypass 8-Core Intel® Atom® Processor up to 64GB ECC Memory 7xGbE LAN with 6 ports bypass 8-Core Intel® Atom® Processor - Embedded long life - Full size mSATA support - Up to 64GB DDR3 1600MHz ECC	- M.2 2242, 2280, 22110 with M-key (full size) mSATA support - Dual display for HDMI, Display Port, VGA 2x GbE LAN	- Cost Effective Embedded Mini ITX System - Low Power Consumption 1U Compact Mini ITX BOX System - Low power SoC Intel® Pentium® N3700 (6W, 4C) - Dual display for HDMI, Display Port, VGA - Intel® i210AT Quad GbE LAN	- Cost Effective Embedded Mini ITX System 1U Compact Mini ITX BOX System - Low power SoC Intel® Celeron™ J1900 (10W, 4C) - Dual display for HDMI, Display Port, VGA - Intel® i210AT dual port GbE LAN
Serverboard	SUPER● A1SRM-LN7F-2758	SUPER● A2SAV-L	SUPER● X11SBA-LN4F	SUPER● X10SBA
Chipset	Intel® Atom Processor C2758	Intel® Atom® Processor E3940	N3700	J1900
System Memory (Max.)*	64GB Unbuffered ECC/non-ECC, DDR3-1600MHz in 4 DIMM slotsx8 Width only	Up to 8 GB of DDR3 SODIMM 1600MHz	Up to 8GB 1600MHz DDR3 Non-ECC SO-DIMM in 2 sockets	Up to 8GB 1333MHz DDR3L Non-ECC SO-DIMM in 2 socket
Expansion Slots	1 FH (Full-height, Half-length)	N/A	1 Mini-PCI-E slot with mSATA support	1 Mini-PCI-E slot, 1 mSATA slot
Onboard Storage Controller	SoC controller for 4 SATA2 (3 Gbps) ports; RAID 2SATA3 (6 Gbps)	N/A	Intel® SoC	Intel® SoC - SATA 2.0 (3Gbps) Marvell 88SE9230 - SATA 3.0 (6Gbps)
Connectivity	Quad LAN with Intel® C2000 SoC; Single LAN with Intel® Ethernet Controller I210-AT; Dual LAN with Intel® Ethernet Controller I350-AM2 4 USB 2.0 (rear)	1 COM	Quad Gigabit LAN with Intel® I210-AT	Dual Gigabit LAN with Intel® I210-AT
VGA/Audio	1 VGA, 1 Aspeed AST2400 BMC	N/A	Aspeed AST2400 BMC ALC 888S HD Audio	Intel® HD Graphics ALC 88S HD Audio
Management	IPMI2.0; NMI; SUM; SuperDoctor® 5; Watchdog	N/A	IPMI 2.0 with KVM support; SuperDoctor® 5	SuperDoctor® 5
Drive Bays	1x 3.5" fixed drive bay or 2x2.5" drive bay with optional bracket	N/A	1x 2.5" internal HDD support	1x 2.5" internal HDD support
Peripheral Bays	N/A	N/A	N/A	N/A
Power Supply	200W Multi-output Gold Level power supply	60W DC power adapter	60W DC power adapter	60W DC power adapter
Cooling System	2x 4cm counter-rotating PWM fan, support up to three system fans	1x 4cm high performance PWM fan	1x 4cm high performance PWM fan, support up to 2 chassis fans	1x 4cm high performance PWM fan, support up to 2 chassis fans
Form Factor	Mini-1U 17.2" (437mm) x 1.7" (43mm) x 11.3" (287mm)	1U Mini ITX BOX PC 195 x 44 x 195mm (7.68" x 1.75" x 7.68")	1U Mini ITX BOX PC 195 x 44 x 195mm (7.68" x 1.75" x 7.68")	1U Mini ITX BOX PC 195 x 44 x 195mm (7.68" x 1.75" x 7.68")

* Please check with your Supermicro sales representative and website for compatibility and configuration details



Embedded

Intel® Xeon® Processor D-1537 SoC, 8 Core



Embedded

Intel® Xeon® Processor D-1508 SoC
Dual Core 4 Thread



MODEL	SYS-5018D-MHR7N4P	SYS-5018D-LN4T
Processor Support	Intel® Xeon® Processor D-1537, SoC 8 Core, 35W, 1.7-2.3GHz	Intel® Pentium® Processor D-1508 product family
Key Applications	- Hyper-Converged Appliance - Enterprise Server - Edge Computing Server - Private Cloud Server - Virtualization Server	- Compact Network Appliance - FireWall Applications - Software Defined WAN
Outstanding Features	4 Hot Swap SATA3/SAS2 Drive Bays - Dual SFP+ and Dual GbE - Low Power Xeon D SoC 8 Core with Dual 10GbE and Dual GbE - Remote management via dedicated IPMI BMC 400W high-efficiency redundant power supply 7 year life cycle	- Dual 10GbE SFP+ and Dual GbE [nid:7111] - Short depth (less than 10 depth) - Intel® Xeon® processor D-1508, Dual-Core, 25W - Up to 128GB ECC RDIMM DDR4 2133MHz or 64GB ECC/non-ECC UDIMM in 4 sockets - Up to 4 2.5" SATA3 HDD, and 1 M.2 (M key 2242/80/110 PCI-E 3.0x4)
Serverboard	SUPER [®] X10SDV-7TP4F	SUPER [®] X10SDV-2C-TP4F
Chipset	System on Chip	System on Chip
System Memory (Max.)*	Up to 128GB Registered ECC, DDR4-2133MHz 64GB Unbuffered ECC/non-ECC, DDR4-2133MHz in 4 DIMM slots	Up to 128GB Registered ECC, DDR4-2133MHz 64GB Unbuffered ECC/non-ECC, DDR4-2133MHz in 4 DIMM slots
Expansion Slots	PCI-E 3.0 x8 full height expansion slot; M.2 PCI-E 3.0x4, M Key 2242/2280/22110, Mini-PCI-E with mSATA support	1 PCI-E 3.0 x8; M.2 PCI-E 3.0x4, M Key 2242/2280/22110, Mini-PCI-E with mSATA support
Onboard Storage Controller	4 SATA3 support RAID 0,1,5,10(RSTe) or 4 SAS2 (No RAID support and require one optional cable, CBL-SAST-0811)	SoC controller for 4 SATA3 (6 Gbps) ports; RAID 0,1,5,10 RSTe
Connectivity	Dual LAN with Intel® Ethernet Controller I210, Dual SFP+, 2 USB3.0, 1 USB2.0 Type A,	Dual LAN with Intel® Ethernet Controller I210; Dual LAN with 10G SFP+
VGA/Audio	1 VGA via Aspeed AST2400 BMC	1 VGA, 1 Aspeed AST2400 BMC
Management	Intel® Node Manager; IPMI2.0; KVM with dedicated LAN; NMI; SUM; SuperDoctor® 5; Watchdog;	Intel® Node Manager; IPMI2.0; KVM with dedicated LAN; NMI; SUM; SuperDoctor® 5; Watchdog
Drive Bays	4x 3.5" hot-swap SATA3/SAS2(require one optional cable, CBL-SAST-0811)	1x 3.5" fixed drive bay or up to 4 2.5" fixed drives
Peripheral Bays	N/A	N/A
Power Supply	Redundant 400W Platinum Level power supplies	200W Low Noise Power Supply
Cooling System	3x 40x28mm PWM fan for CPU and Memories; 1x 40x28mm PWM fan for AOC cooling	1x 4028mm 13K RPM 4-pin PWM fan
Form Factor	1U 437x43x503mm (17.2" x 1.7" x 19.85")	Mini-1URackmount (less than 10" depth) 437 x 43 x 249mm (17.2" x 1.7" x 9.8")

* Please check with your Supermicro sales representative and website for compatibility and configuration details



Embedded

Intel® Xeon® Processor D-1537 SoC, 8 Core



Embedded

Intel® Xeon® Processor D-1508 SoC
Dual Core 4 Thread



MODEL	SYS-5018D-FN8T	SYS-1018D-FRN8T
Processor Support	Intel® Xeon® Processor D-1518 product family, SoC 4 Core, 35W, 2.2 GHz	Intel® Xeon® 16C D-1587 product family
Key Applications	• Networking Appliance • Network Security Appliance • FireWall Applications • Embedded Applications • Virtualization Server	• Network Security Appliance • FireWall Applications • Virtualization • SD-WAN • vCPE
Outstanding Features	• Dual SFP+ and 6x GbE • Short depth (less than 10 depth) • Low Power Intel® Xeon® Processor D SoC 4 Core • Best Performance per Watt • 7 year life cycle • IPMI 2.0 management with dedicated LAN	• 8 LAN w/ 2x10G SFP+ Ports+ 6x1Gbe • 128G DDR4 RAM • 400W Redundant Platinum PSU • 1x Low Profile PCI-E 3.0 x 8 and 1x M.2 PCI-E 3.0 x4, MiniPCI-E with mSATA • 4x 2.5" HDD
Serverboard	SUPER [®] X10SDV-TP8F	SUPER [®] X10SDV-7TP8F
Chipset	System on Chip	System on Chip
System Memory (Max.)*	Up to 128GB ECC RDIMM DDR4 2133MHz or 64GB ECC/non-ECC UDIMM in 4 sockets	Up to 128 GB of DDR4 ECC RDIMM 2133MHz or 64 GB of DDR4 ECC UDIMM 2133MHz
Expansion Slots	1 PCI-E 3.0 x8	1 PCI-E 3.0 x8 ((LP, HL)
Onboard Storage Controller	SoC controller for 4x SATA3	N/A
Connectivity	2x USB 3.0, 1x M.2 (M Key for SSD 2242/80/110, PCI-E/SATA3, 1x PCI-E w/ mSATA Dual SFP+ and 6x GbE	2x 10GbE SFP+ 4x 1GbE with I350-AM4 2x 1GbE with I210-AT 2 x USB 3.0
VGA/Audio	1 VGA	1 VGA
Management	IPMI2.0; KVM with dedicated LAN; Intel® Node Manager; NMI, SUM, SuperDoctor® 5, Watchdog	IPMI 2.0 (RJ45) with dedicated LAN port and KVM via BMC VGA
Drive Bays	1x 3.5" fix drive bay, or 4x 2.5" fixed drive bay with bracket	4x 2.5" HDD
Peripheral Bays	1x 3.5" or 4x 2.5" HDD	N/A
Power Supply	200W Gold Level power supply	Redundant 400W Platinum Level power supplies
Cooling System	Passive CPU heat sink and 3x 40mm chassis fans	4x 40mmx56mm cooling fan, up to 13Krpm
Form Factor	Mini-1U Rackmount (less than 10" depth) 437 x 43 x 249mm (17.2" x 1.7" x 9.8")	1U Rackmount 437 x 43 x 429mm (17.2" x 1.7" x 16.9")

* Please check with your Supermicro sales representative and website for compatibility and configuration details



Embedded
Best Performance per Watt,
Less than 10" Depth
UP



Mainstream
High-Connectivity with
Quad LAN



Mainstream
Reliable Performance
UP



MODEL	SYS-5018D-FN4T	SYS-5018D-MTLN4F	SYS-5018D-MTRF SYS-5018D-MTF
Processor Support	Intel® Xeon® Processor D-1540 product family, SoC 8 Core, 45W, 2.0-2.6GHz	Single Intel® Xeon® Processor E3-1200 v3, 4th gen. Intel® Core™ i3 Processor, Intel® Pentium® Processor, Intel® Celeron® Processor product families; Single socket H3 (LGA 1150) supported	Single Intel® Xeon® Processor E3-1200 v3, 4th gen. Intel® Core™ i3 Processor, Intel® Pentium® Processor, Intel® Celeron® Processor product families; Single socket H3 (LGA 1150) supported
Key Applications	• Networking Appliance • Edge Computing Device • Security Gateway • Compact Cloud Server	• Data Center • HPC • Enterprise Server • Compute Intensive Storage Environments	• Data Center • HPC • Enterprise Server • Compute Intensive Storage Environments
Outstanding Features	• 2x Gigabit + 2x 10G LAN ports • Less than 10" depth • Up to 2x 3.5" or 4x 2.5" SATA3 device • 1x PCI-E 3.0 x16 add-on card slot • Dedicated management port • M.2 Supported. PCI-E 3.0 x4 2280, 2242	• 350W Gold Level high-efficiency power supply • 4x 3.5" SATA drives • Four 3.5" SAS/SATA drive bays • IPMI 2.0 + KVM with dedicated LAN • Optimized for server appliance • Quad Gigabit Ethernet LAN • SATA 3.0 (6Gbps) support	• 400W Redundant high-efficiency power supply w/ optional BBP* module (-MTRF) • 4x 3.5" SATA drives • Four 3.5" SAS/SATA drive bays • IPMI 2.0 + KVM with dedicated LAN • Optimized for server appliance • Dual Gigabit Ethernet LAN • 4x SATA 3.0 (6Gbps) support
Serverboard	SUPER● X10SDV-8C-TLN4F	SUPER● X10SLM+-LN4F	SUPER● X10SLM-F
Chipset	Intel® Xeon® Processor D-1540, SoC	Intel® C224 chipset	Intel® C224 chipset
System Memory (Max.)*	Up to 4 DIMMs, 128 GB of 2133MHz DDR4 RDIMM or 64GB UDIMM	Up to 32GB DDR3 ECC 1600 MHz UDIMMs in 4 slots	Up to 32GB DDR3 ECC 1600 MHz UDIMMs in 4 slots
Expansion Slots	1x PCI-E 3.0 x16 add-on card slot	1 PCI-E 3.0 x16 FH expansion slot	1 PCI-E 3.0 (x8 in 16) FH expansion slot
Onboard Storage Controller	Intel® SoC-based 2x 3.5" or 4x 2.5" SATA3 bays, SATA DOM support	Intel® C224 controller for 4 SATA3 (6Gbps) ports; RAID 0,1,5,10	Intel® C224 controller for 4 SATA3 (6Gbps) ports; RAID 0,1,5,10
Connectivity	2x GbE + 2x 10G LAN ports 1x dedicated management port, 2x USB 3.0	Quad LAN with Intel® Ethernet Controller i210AT	Dual LAN with Intel® Ethernet Controller i210AT + i217LM
VGA/Audio	Integrated VGA port	AST2400 VGA Optional front bezel cover	AST2400 VGA Supports BBP* module (-MTRF) Optional front bezel cover
Management	Integrated remote management with dedicated port	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog
Drive Bays	Intel® SoC-based 2x 3.5" or 4x 2.5" SATA3 fixed bays	4x 3.5" SATA3 Hot-swap Bays w/ RAID options	4x 3.5" SATA3 hot-swap bays w/ RAID options
Peripheral Bays	3.5" (default) or 2.5" (optional)	1 slim DVD-ROM drive (optional)	1 slim DVD-ROM drive (optional)
Power Supply	200W compact power supply	350W Gold Level high-efficiency power supply	-MTRF: 400W Redundant w/ optional BBP* module -MTF: 350W Gold Level high-efficiency power supply
Cooling System	CPU fan, 40mm chassis fan	4x 28mm fans standard (with option for additional fans for add-on card)	4x 28mm fans standard (with optional for additional fan for add-on card)
Form Factor	1U Rackmount (less than 10" depth) 437 x 43 x 249mm (17.2" x 1.7" x 9.8")	1U Rackmount 437 x 43 x 503mm (17.2" x 1.7" x 19.8")	1U Rackmount 437 x 43 x 503mm (17.2" x 1.7" x 19.8")

* Please check with your Supermicro sales representative and website for compatibility and configuration details



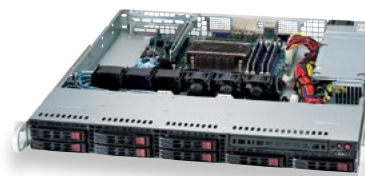
Mainstream

Cost-Effective
Compact Server Appliance
UP



Mainstream

Storage UP, SAS2

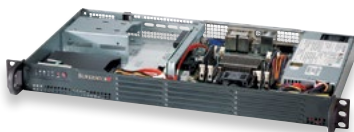


MODEL	SYS-5018D-MF	SYS-1018D-73MTF
Processor Support	Single Intel® Xeon® Processor E3-1200 v3, 4th gen. Intel® Core™ i3 Processor, Intel® Pentium® Processor, Intel® Celeron® Processor product families; Single socket H3 (LGA 1150) supported	Single Intel® Xeon® Processor E3-1200 v3, 4th gen. Intel® Core™ i3 Processor product families; Single socket H3 (LGA 1150) supported, up to 4C/8T
Key Applications	- Automation, Cloud and Virtualization needs, Cloud Computing, Corporate Database, Corporate- WINS, DNS, Print, Login, Data Center, Data Farm, Data Warehouse, Database Processing & Storage, Disk Backup & Recovery, Downloads - e-Business, Email Server, Embedded Applications, Engineering Design, Hosting & Application delivery - Industrial Automation & Control, Instrumentation, Large Database	- Automation, Cloud and Virtualization needs, Cloud Computing, Corporate Database, Corporate- WINS, DNS, Print, Login, Data Center, Data Farm, Data Warehouse, Database Processing & Storage, Disk Backup & Recovery, Downloads - e-Business, Email Server, Embedded Applications, Engineering Design, Hosting & Application delivery - Industrial Automation & Control, Instrumentation, Large Database
Outstanding Features	350W Gold Level high-efficiency power supply Compact size chassis Cost effective UP platform	330W Gold Level high-efficiency power supply 8x 2.5" SAS/SATA drives Compact size chassis Cost effective UP storage platform
Serverboard	SUPER● X10SL-F	SUPER● X10SL7-F
Chipset	Intel® C222 chipset	Intel® C222 chipset
System Memory (Max.)*	Up to 32GB DDR3 ECC 1600 MHz UDIMMs in 4 slots	Up to 32GB DDR3 ECC 1600 MHz UDIMMs in 4 slots
Expansion Slots	1 (x8 in 16) PCI-E 3.0 Full-Height Expansion Slot	1 (x8 in 16) PCI-E 3.0 Full-Height Expansion Slot
Onboard Storage Controller	2x 3.5" fixed SATA3 w/ RAID options	Broadcom 2308 with 8x SAS 6Gbps; RAID 0, 1, 1E, 10
Connectivity	Dual LAN with Intel® Ethernet Controller i210AT + i217LM	Dual LAN with Intel® Ethernet Controller i210AT
VGA/Audio	AST2400 VGA 4x USB 2.0 DOM power connector Supports 2.5" HDD/SSD via optional bracket	AST2400 VGA DOM power connector Optional front bezel cover; LCD option
Management	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog
Drive Bays	2x 3.5" fixed SATA3 w/ RAID options	8x 2.5" SAS2/SATA3 Hot-swap Bays w/ RAID option
Peripheral Bays	1 slim DVD-ROM drive (optional)	1 slim DVD-ROM drive (optional)
Power Supply	350W Gold Level high-efficiency power supply	330W Gold Level high-efficiency power supply
Cooling System	2x 4cm counter-rotating PWM fan; Dual counter-rotating fans	3x 40x28mm PWM fan; 1x fans for AOC cooling
Form Factor	1U Rackmount 437 x 43 x 396mm (17.2" x 1.7" x 14.5")	1U Rackmount 437 x 43 x 507mm (17.2" x 1.7" x 19.98")

* Please check with your Supermicro sales representative and website for compatibility and configuration details



Embedded Low Power



Embedded Low Power Front I/O



MODEL	SYS-5018A-TN4	SYS-5018A-FTN4
Processor Support	Intel® Atom® Processor C2750	Intel® Atom® Processor C2758
Key Applications	- Application and data serving, Automation, Cloud and Virtualization needs - Corporate- WINS, DNS, Print, Login, e-Business, Embedded Applications, Hosting & Application delivery, Industrial Automation & Control, NAS Servers, Security - SOHO Entry-Level Server, Web Server, Web Server for Small and Medium Business	- Application and data serving, Automation, Cloud and Virtualization needs - Corporate- WINS, DNS, Print, Login, e-Business, Embedded Applications, Hosting & Application delivery, Industrial Automation & Control, NAS Servers, Security - SOHO Entry-Level Server, Web Server, Web Server for Small and Medium Business
Outstanding Features	1 PCI-E x8 slot 200W Low-Noise power supply 4x 2.5" SATA drives - Compact size chassis, cost-effective UP platform - IPMI 2.0 + KVM with dedicated LAN - Optimized for small business	1 PCI-E x8 slot 200W Low-Noise power supply 4x 2.5" SATA drives - Compact size chassis, cost-effective UP platform - IPMI 2.0 + KVM with dedicated LAN - Optimized for small business - Front I/O and Support Intel® QuickAssist Acceleration Technology
Serverboard	SUPER [®] A1SAi-2750F	SUPER [®] A1SRi-2758F
Chipset	System on Chip	System on Chip
System Memory (Max.)*	Up to 32GB ECC DDR3 1600/1333MHz SODIMM in 4 DIMM slots	Up to 32GB ECC DDR3 1600/1333MHz SODIMM in 4 DIMM slots
Expansion Slots	1x PCI-E 2.0 x8 slot via riser card	1x PCI-E 2.0 x8 slot via riser card
Onboard Storage Controller	SoC controller for 4 SATA2 (3Gbps) ports; 2 SATA3 (6Gbps)	SoC controller for 4 SATA2 (3Gbps) ports; 2 SATA3 (6Gbps)
Connectivity	Quad LAN with Marvell® Alaska® 88E1543	Quad LAN with Marvell® Alaska® 88E1543
VGA/Audio	AST2400 VGA 4x USB3.0, 2 x USB2.0	AST2400 VGA 4x USB3.0, 2 x USB2.0
Management	IPMI 2.0 + KVM with dedicated LAN, SuperDoctor® 5, Watchdog	IPMI 2.0 + KVM with dedicated LAN, SuperDoctor® 5, Watchdog
Drive Bays	2x 3.5" fixed HDD (no expansion slot), or 1x 3.5" fixed HDD (low profile slot only), or 4x 2.5" fixed HDD (no expansion slot), or 2x 2.5" fixed HDD (full height and half length)	2x 3.5" fixed HDD (no expansion slot), or 1x 3.5" fixed HDD (low profile slot only), or 4x 2.5" fixed HDD (no expansion slot), or 2x 2.5" fixed HDD (full height and half length)
Peripheral Bays	200W Low-Noise AC-DC power supply with PFC	200W Low-Noise AC-DC power supply with PFC
Power Supply	Built-in CPU heatsink; optional 40x28mm fan; 1x high-efficiency power supply with thermal control fan	Built-in CPU heatsink; optional 40x28mm fan; 1x high-efficiency power supply with thermal control fan
Cooling System	Mini-1U Rackmount 437 x 43 x 249mm (17.2" x 1.7" x 9.8")	Mini-1U Rackmount 437 x 43 x 249mm (17.2" x 1.7" x 9.8")
Form Factor	1U Rackmount 437 x 43 x 503mm (17.2" x 1.7" x 19.8")	1U Rackmount 437 x 43 x 503mm (17.2" x 1.7" x 19.8")

* Please check with your Supersmicro sales representative and website for compatibility and configuration details



AVOTON Solution
Best for Entry Web Hosting
Low Power



Mainstream
4-Core Intel® Atom® Processor



MODEL	SYS-5018A-MLTN4	SYS-5018A-MLHN4
Processor Support	Intel® Atom® Processor C2550	Intel® Atom® Processor C2550
Key Applications	- Cloud and Virtualization needs, Cloud Computing, Corporate- WINS, DNS, Print, Login, Data Center, Database Applications, DataCenter Applications - e-Business, Enterprise Server - FireWall Applications, Gateway, provisioning servers, High End Enterprise Server, Server Appliance - Virtualization Server - Web Server, Web Server for Small and Medium Business	- Cloud and Virtualization needs, Cloud Computing, Corporate- WINS, DNS, Print, Login, Data Center, Database Applications, DataCenter Applications - e-Business, Enterprise Server - FireWall Applications, Gateway, provisioning servers, High End Enterprise Server, Server Appliance - Virtualization Server - Web Server, Web Server for Small and Medium Business
Outstanding Features	1 PCI-E x8 slot 2 Internal 3.5" SATA drive bays 200W low-power supply - Compact size chassis - Cost effective UP platform - IPMI 2.0 + KVM with dedicated LAN - SATA 3.0 (6Gbps) support - Short-depth, space saving design	1 PCI-E x8 slot 200W low-power supply 4 hot-swap 3.5" SATA/SAS Drive Bays - IPMI 2.0 + KVM with dedicated LAN - Optimized for Power Saving and Improved Cooling - SATA 3.0 (6Gbps) support
Serverboard	SUPERMICRO® A1SAM-2550F	SUPERMICRO® A1SAM-2550F
Chipset	System on Chip chipset	System on Chip chipset
System Memory (Max.)*	Up to 64GB Unbuffered ECC/non-ECC, DDR3-1600MHz in 4 DIMM slots	Up to 64GB ECC/non-ECC UDIMM, DDR3-1600MHz in 4 DIMM slots
Expansion Slots	1 PCI-E 2.0 x8 (FH/HL)	1 PCI-E 2.0 x8 (FH/HL)
Onboard Storage Controller	SoC controller for 4 SATA2 (3Gbps) ports; RAID 2 SATA3 (6Gbps);	SoC controller for 4 SATA2 (3Gbps) ports; RAID 2 SATA3 (6Gbps)
Connectivity	Quad LAN with SoC	Quad LAN with SoC
VGA/Audio	AST2400 VGA	AST2400 VGA
Management	IPMI2.0; NMI; SuperDoctor V; Watchdog	IPMI2.0; NMI; SuperDoctor V; Watchdog
Drive Bays	2x 3.5" internal drive bays 4x 2.5" fixed SATA3 (optional)	4x 3.5" hot-swap SAS/SATA
Peripheral Bays	200W Low Noise AC-DC power supply with PFC	200W Low Noise AC-DC power supply with PFC
Power Supply	1x 10cm 3,800 RPM PWM blower fan	2x 4cm high performance PWM fan
Cooling System	1U rackmount 426x 43 x 356mm (16.8" x 1.7" x 14")	1U rackmount 437 x 43 x 503mm (17.2" x 1.7" x 19.85")
Form Factor	1U Rackmount 437 x 43 x 507mm (17.2" x 1.7" x 19.98")	1U Rackmount 437 x 43 x 396mm (17.2" x 1.7" x 14.5")

* Please check with your Supermicro sales representative and website for compatibility and configuration details



Embedded 8-Core (QuickAssist)



Cold Storage



MODEL	SYS-5018A-MHN4	SSG-5018A-A(R/S)12L
Processor Support	Intel® Atom® Processor C2758	Intel® Atom® Processor C2750
Key Applications	- Cloud and Virtualization needs, Cloud Computing, Corporate- WINS, DNS, Print, Login, Data Center, Database Applications, DataCenter Applications - e-Business, Enterprise Server - FireWall Applications, Gateway, provisioning servers, High End Enterprise Server, Server Appliance - Virtualization Server - Web Server, Web Server for Small and Medium Business	Storage Nodes
Outstanding Features	1 PCI-E x8 slot 200W low-power supply 4 hot-swap 3.5" SATA/SAS Drive Bays - IPMI 2.0 + KVM with dedicated LAN - Optimized for Power Saving and Improved Cooling - SATA 3.0 (6Gbps) support	- Hardware Drive Power Control 1 PCI-E 2.0 x4 (in x8 slot) 12x 3.5" data drives in 1U - Cost optimized - RAID: IT Mode only - SATADOM for OS drive
Serverboard	SUPERMICRO® A1SRM-2758F	SUPERMICRO® A1SA7-2750F
Chipset	System on Chip chipset	System on Chip chipset
System Memory (Max.)*	Up to 64GB ECC/non-ECC UDIMM, DDR3-1600MHz in 4 DIMM slots	Up to 64GB ECC/non-ECC UDIMM, DDR3-1600MHz in 4 DIMM slots, x8 data width
Expansion Slots	1 PCI-E 2.0 x8 (FH/HL)	1 PCI-E 2.0 x4 (LP, HL, in x8 slot)
Onboard Storage Controller	SoC controller for 4 SATA2 (3Gbps) ports; RAID 2 SATA3 (6Gbps);	IT Mode
Connectivity	Quad LAN with Intel® C2000 SoC;	Dual LAN with SoC
VGA/Audio	AST2400 VGA	AST2400 VGA
Management	IPMI2.0; NMI; SuperDoctor V; Watchdog	IPMI2.0; NMI; SuperDoctor® 5; Watchdog
Drive Bays	4x 3.5" hot-swap SAS/SATA	12x 3.5" drive bay
Peripheral Bays	200W Low Noise AC-DC power supply with PFC	N/A
Power Supply	2x 4cm high performance PWM fan	400W Redundant Gold Level high-efficiency power supplies
Cooling System	1U rackmount 437 x 43 x 503mm (17.2" x 1.7" x 19.85")	6x 40x28mm PWM fan;
Form Factor	1U Rackmount 437 x 43 x 507mm (17.2" x 1.7" x 19.98")	1U Rackmount 437 x 43 x 813mm (17.2" x 1.7" x 32")

* Please check with your Supermicro sales representative and website for compatibility and configuration details



Best Cost-Efficient
Cold Storage



High-Density
Cold Storage



High-Density
Warm Storage



MODEL	SSG-5018D2-AR12L	SSG-5018D4-AR12L	SSG-5018D8-AR12L
Processor Support	Intel® Pentium® D 1508 Processor, SoC, 2 Core, 4 Thread 2.2 GHz (2.6 GHz Turbo), 25W	Intel® Xeon® Processor D 1518 Processor, SoC, 4 Core, 8 Thread 2.2 GHz (2.2 GHz Turbo), 35W	Intel® Xeon® Processor D 1537 Processor, SoC, 8 Core, 16 Thread 1.7 GHz (2.3 GHz Turbo), 35W
Key Applications	- Cold Storage - Data Warehousing, Archiving - Long Tail, Medical Records, Compliance Docs - Low Power Efficiency Appliance	- Cold Storage - Archiving, Mail/Finance, Security - Scale-Out Density, VOD Delivery - Low Power Efficiency Appliance	- Warm Storage - CDN, Business Hosting - OLTP/DB - Low Power Efficiency Appliance
Outstanding Features	12x Hot-Swap 3.5" SAS2/SATA3 bays (6 Gb/s) - Option 4x 2.5" internal HDD drives - Up to 128GB DDR4 2133MHz RDIMM or 64GB UDIMM 2-Port 1G Base-T and 2-port 10G SFP+ Network Port - M.2 2242, 2280, 22110 PCI-E 3.0 x4 with M-key - IPMI 2.0 (dedicated LAN) with Virtual Media/KVM over LAN	12x Hot-Swap 3.5" SAS2/SATA3 bays (6 Gb/s) - Option 4x 2.5" internal HDD drives - Up to 128GB DDR4 2133MHz RDIMM or 64GB UDIMM 2-Port 1G Base-T and 2-port 10G SFP+ Network Port - M.2 2242, 2280, 22110 PCI-E 3.0 x4 with M-key - IPMI 2.0 (dedicated LAN) with Virtual Media/KVM over LAN	12x Hot-Swap 3.5" SAS2/SATA3 bays (6 Gb/s) - Option 4x 2.5" internal HDD drives - Up to 128GB DDR4 2133MHz RDIMM or 64GB UDIMM 2-Port 1G Base-T and 2-port 10G SFP+ Network Port - M.2 2242, 2280, 22110 PCI-E 3.0 x4 with M-key - IPMI 2.0 (dedicated LAN) with Virtual Media/KVM over LAN
Serverboard	SUPER● X10SDV-2C-7TP4F	SUPER● X10SDV-4C-7TP4F	SUPER● X10SDV-7TP4F
Chipset	Intel® Pentium® D 1508 SoC Processor	Intel® Xeon® Processor D 1518 SoC Processor	Intel® Pentium® D 1537 SoC Processor
System Memory (Max.)*	Up to 128GB DDR4 2133 MHz RDIMM or 64GB UDIMM	Up to 128GB DDR4 2133 MHz RDIMM or 64GB UDIMM	Up to 128GB DDR4 2133 MHz RDIMM or 64GB UDIMM
Expansion Slots	1 PCI-E 3.0 x8 full height	1 PCI-E 3.0 x8 full height	1 PCI-E 3.0 x8 full height
Onboard Storage Controller	Broadcom 2116 (IT mode)	Broadcom 2116 (IT mode)	Broadcom 2116 (IT mode)
Connectivity	2x USB 3.0, 5x USB 2.0 port, VGA	2x USB 3.0, 5x USB 2.0 port, VGA	2x USB 3.0, 5x USB 2.0 port, VGA
VGA/Audio	Built-in VGA from Aspeed BMC	Built-in VGA from Aspeed BMC	Built-in VGA from Aspeed BMC
Management	IPMI 2.0 w/ dedicated LAN port & KVM; 4 Pin PWM Fan Speed control; TPM option; Thermal and voltage monitoring	IPMI 2.0 w/ dedicated LAN port & KVM; 4 Pin PWM Fan Speed control; TPM option; Thermal and voltage monitoring	IPMI 2.0 w/ dedicated LAN port & KVM; 4 Pin PWM Fan Speed control; TPM option; Thermal and voltage monitoring
Drive Bays	12x Hot-Swap 3.5" SAS2/SATA3 drive bays (6 Gb/s), Option 4x 2.5" internal HDD drives	12x Hot-Swap 3.5" SAS2/SATA3 drive bays (6 Gb/s), Option 4x 2.5" internal HDD drives	12x Hot-Swap 3.5" SAS2/SATA3 drive bays (6 Gb/s), Option 4x 2.5" internal HDD drives
Peripheral Bays	N/A	N/A	N/A
Power Supply	400W Redundant Gold Level power supplies	400W Redundant Gold Level power supplies	400W Redundant Gold Level power supplies
Cooling System	5x 4cm middle fan	5x 4cm middle fan	5x 4cm middle fan
Form Factor	1U rackmount 437 x 43 x 813mm (17.2" x 1.7" x 32")	1U rackmount 437 x 43 x 813mm (17.2" x 1.7" x 32")	1U rackmount 437 x 43 x 813mm (17.2" x 1.7" x 32")

* Please check with your Supermicro sales representative and website for compatibility and configuration details

2U GPU/Coprocessor

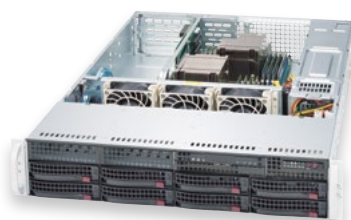
Tesla® Kepler Ready!

2U WIO

16 DIMMs, 6 PCI-E 3.0 x8

2U DCO

16 DIMMs, up to 4 AOCs
4 NVMe



MODEL	SYS-2028GR-TR(T) SYS-2028GR-TRH(T)	SYS-6028R-WTR SYS-6028R-WTRT	SYS-6028R-TDWNR
Processor Support	Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s		Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s
Key Applications	2D/3D and CAD Applications 3D Rendering - Astrophysics - Chemistry - Cloud and Virtualization needs - Cloud Computing - Financial Analysis - High-performance computing - Oil & Gas	- Cloud and Virtualization needs - Database Processing & Storage - Hosting & Application delivery - HPC cluster computer nodes - Simulation & Automation	- Data Center - Cloud and Virtualization needs - Hosting & Application delivery - Database Processing & Storage - Simulation & Automation
Outstanding Features	- Up to 6 PCI-E 3.0 x16 slots support 6 double-width GPU cards 10x 2.5" SAS/SATA drive bays 16 DIMM slots - GPU health monitoring with fan speed control - High-density, Enterprise Performance, Cost-effective	2 SATA DOM support with built-in power - Redundant 740W Platinum Level high-efficiency power supplies - Supports 16 DIMM DDR4-2133MHz - Up to 6 add-on cards	- Redundant 920W Platinum Level high-efficiency power supplies - IPMI 2.0 + KVM with Dedicated LAN - Supports 16 DIMM DDR4-2133MHz - Up to 4 add-on cards - NVMe Support
Serverboard	-TR/TRH: SUPER● X10DRG-H -TRT/TRHT: SUPER● X10DRG-HT	-WTR: SUPER● X10DRW-i -WTRT: SUPER● X10DRW-iT	SUPER● X10DDW-IN
Chipset	Intel® C612 Chipset		Intel® C612 Chipset
System Memory (Max.)*	Up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots	Up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots	Up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots
Expansion Slots	-TR(T): 4x PCI-E 3.0 x16 slots (GPU/Coprocessor opt.); 1x PCI-E 3.0 x8 (in x16) low profile slot; -TRH(T): 6x PCI-E 3.0 x16 slots (GPU/Coprocessor opt.); 1x PCI-E 3.0 x8 (in x16) low profile slot	6 PCI-E 3.0 x8 (2 FHFL, 2 FHHL, 2LP)	3 PCI-E 3.0 x8 (FH/FL) & 1 PCI-E 3.0 (LP)
Onboard Storage Controller	Intel® C612 controller for 10 SATA3 (6Gbps) ports; RAID 0,1,5,10	Intel® C612 controller for 10 SATA3 (6Gbps) ports; RAID 0,1,5,10	Intel® C612 controller for 8 SATA3 (6Gbps) Ports; RAID 0,1,5,10
Connectivity	-TR/TRH: Dual LAN with Intel® i350 Gigabit Ethernet controller -TRT/TRHT: Dual 10Gb Ethernet LAN with Intel® X540 and 10GBase-T Connector	-WTR: Dual LAN with Intel® i350 Gigabit Ethernet Controllers; -WTRT: Dual 10Gb Ethernet LAN with Intel® X540 and 10GBase-T Connector	Dual LAN with Intel® i350 Gigabit Ethernet Controllers
VGA/Audio	AST2400 VGA		AST2400 VGA
Management	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog		IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog
Drive Bays	10 x 2.5" hot-swap SAS/SATA drive bay	8x 3.5" hot-swap SAS/SATA drive bays	8x 3.5" SATA + 4x 2.5" NVMe drive bay
Peripheral Bays	N/A	1 slim DVD-ROM drive (optional)	N/A
Power Supply	Redundant 2000W Platinum Level high-efficiency power supplies	Redundant 740W Platinum Level high-efficiency power supplies with I²C & PMBus	Redundant 920W Platinum Level high-efficiency power supplies with I²C & PMBus
Cooling System	5x 8cm heavy duty fans with optimal fan speed control	3x 8cm (7000 RPM) hot-swap PWM cooling fan	3x 80x80x38mm heavy duty counter-rotating fans with optimal fan speed control
Form Factor	2U Rackmount 437 x 89 x 787mm (17.2" x 3.5" x 31")	2U Rackmount 437 x 89 x 647mm (17.2" x 3.5" x 25.5")	2U Rackmount 437 x 89 x 647mm (17.2" x 3.5" x 25.5")

* Please check with your Supermicro sales representative and website for compatibility and configuration details



Mainstream

2U SAS3/SATA3
Quad LAN, 24 DIMMs, 10GBase-T



Mainstream

8x SAS3 (12Gbps) and
8x SATA3 (6Gbps)



2U Remote Workstation



MODEL	SYS-2028R-C1R4+ SYS-2028R-C1RT4+	SYS-2028R-C1R SYS-2028R-C1RT	SYS-6028UX-TR4
Processor Support	Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s	Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s	Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s
Key Applications	- Application and data serving - Compute Intensive Application - Database Processing & Storage - High Availability Storage Appliance Platform - Hosting & Application delivery	- Application and data serving - Business Critical Applications - Compute Intensive Application - Database Processing & Storage - DataCenter Applications - Mission-critical applications - Simulation & Automation	- Remote Workstation - Financial Market
Outstanding Features	8x 2.5" SAS/8x 2.5" SATA drive bays 24 DIMM slots - Redundant 920W Platinum Level high-efficiency - Broadcom 3108 controller for 8 SAS3 (12Gbps) hot-swappable 2.5" drives - Up to 6 add-on cards 2 SATA DOM support with built-in power	8x SAS3 (12Gbps) and 8x SATA3 (6Gbps) 2.5" drives 2 SATA DOM support with embedded power 16 DIMM slots - Redundant 920W Platinum Level high-efficiency - Supports up to 7 expansion cards	- Up to 4 double width GPU cards - Up to 12 hot-swap 3.5" HDD - Optional SAS3 and NVMe support - Flexible LAN port options
Serverboard	-C1R4+: SUPER® X10DRC-LN4+ -C1RT4+: SUPER® X10DRC-T4+	-C1R: SUPER® X10DRH-C -C1RT: SUPER® X10DRH-CT	SUPER® X10DRU-X
Chipset	Intel® C612 Chipset	Intel® C612 Chipset	Intel® C612 Chipset
System Memory (Max.)*	Up to 3TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 24 DIMM slots	Up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots	Up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots
Expansion Slots	2 PCI-E 3.0 x16; 3 PCI-E 3.0 x8; 1 PCI-E 2.0 x4 (in x8 slot) low profile add on cards	1 PCI-E 3.0 x16; 6 PCI-E 3.0 x8 low profile add on cards.	3 PCI-E 3.0 x16 (FH, 10.5" length) 3 PCI-E 3.0 x8; (1x in x16 slot FH, 10.5" length, 1 low profile, 1 internal low profile)
Onboard Storage Controller	Intel® C612 controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10; SAS3 Broadcom 3108 HW with 2G Cache controller for 8 SAS3 (12Gbps) ports; RAID 0,1,5,6,10,50,60	Intel® C612 controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10; Broadcom 3108 HW with 2G Cache controller for 8 SAS3 (12Gbps) ports; RAID 0,1,5,6,10,50,60	Intel® C612 controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10; Optional 12 SAS3 drive support; Optional 4 NVMe drive support via 2x AOC-2UR8N4-12XT
Connectivity	-C1R4+: Quad LAN with Intel® i350 Gigabit Ethernet Controllers; -C1RT4+: Quad 10Gb Ethernet LAN with Intel® X540 and 10GBase-T Connector	-C1R: Dual LAN with Intel® i350 Gigabit Ethernet Controllers; -C1RT: Dual 10Gb Ethernet LAN with Intel® X540 and 10GBase-T Connector	4 Gigabit Ethernet; 5 USB 3.0 ports (2 rear, 2 onboard header, 1 Type A); 1 Serial Port
VGA/Audio	AST2400 VGA	AST2400 VGA	AST2400 VGA
Management	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog
Drive Bays	8x 2.5" 12Gbps SAS3 and 8x 2.5" 6Gbps SATA3 (Total 16 hot-swap drives)	8x 2.5" SAS3 (12Gbps) and 8x 2.5" 6Gbps SATA3 (Total 16 hot-swap drives)	12x hot-swap 3.5" drives bays
Peripheral Bays	USB Support: Rear: 2x 3.0 + 2x 2.0; Front: 2x 2.0, 1x Type A, optional 1x 5.25" DVD-ROM drive; support either 1x slim or 1x 5.25" DVD drive	USB Support: Rear: 2x 3.0 + 2x 2.0, Front: 2x 2.0, and 1x Type A; optional DVD-ROM drive; support either 1x slim or 1x 5.25" DVD drive	N/A
Power Supply	Redundant 920W Platinum Level high-efficiency power supplies with I²C & PMBus	Redundant 920W Platinum Level (94%) high efficiency power supplies	Redundant 1000W Titanium Level Digital high-efficiency power supply
Cooling System	3x 8cm high-performance PWM fans	3x 8cm high-performance PWM fans	4 heavy duty fans w/ Optimal Fan Speed Control; 1 Air Shroud
Form Factor	2U Rackmount 437 x 89 x 630mm (17.2" x 3.5" x 24.8")	2U Rackmount 437 x 89 x 630mm (17.2" x 3.5" x 24.8")	2U Rackmount 437 x 89 x 723.3mm (17.2" x 3.5" x 28.46")

* Please check with your Supermicro sales representative and website for compatibility and configuration details



Cost-Optimized
DDR4 16x DIMMs,
2x LAN Ports, 6x Add-on Cards



Mainstream
2U 8-bay Hot-swap
3.5" HDDs w/ 16 DIMMs



MODEL	SYS-6028R-T SYS-6028R-TT	SYS-6028R-TR SYS-6028R-TRT
Processor Support	Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s	Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s
Key Applications	- Cloud and Virtualization needs - Hosting & Application delivery - Database processing & Storage - Simulation & Automation	- Cloud and Virtualization needs - Hosting & Application delivery - Database processing & Storage - Simulation & Automation
Outstanding Features	16 DIMM slots 650W Gold Level high-efficiency power supply - IPMI 2.0 + KVM with dedicated LAN 6x 3.5" hot-swap drive bays 2 SATA DOM support with built-in power	16 DIMM slots - Redundant 740W Platinum Level high-efficiency power supplies - IPMI 2.0 + KVM with dedicated LAN 8x 3.5" hot-swap SATA3 drive bays 2 SATA DOM support with built-in power
Serverboard	-T: SUPER [®] X10DRi -TT: SUPER [®] X10DRi-T	-TR: SUPER [®] X10DRi -TRT: SUPER [®] X10DRi-T
Chipset	Intel® C612 Chipset	Intel® C612 Chipset
System Memory (Max.)*	Up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots	Up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots
Expansion Slots	3 PCI-E 3.0 x16 (LP) 3 PCI-E 3.0 x8 (LP)	3 PCI-E 3.0 x16 (LP) 3 PCI-E 3.0 x8 (LP)
Onboard Storage Controller	Intel® C612 controller for 6 SATA3 (6Gbps) ports; RAID 0,1,5,10	Intel® C612 controller for 8 SATA3 (6Gbps) ports; RAID 0,1,5,10
Connectivity	-T: Dual LAN with Intel® i350 Gigabit Ethernet controller; or -TT: Dual 10Gb Ethernet LAN with Intel® X540 and 10GBase-T Connector	-TR: Dual LAN with Intel® i350 Gigabit Ethernet controller; -TRT: Dual 10Gb Ethernet LAN with Intel® X540 and 10GBase-T Connector
VGA/Audio	AST2400 VGA	AST2400 VGA
Management	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog
Drive Bays	6x 3.5" hot-swap drive bays	8x 3.5" hot-swap SATA3 drive bays
Peripheral Bays	1 slim DVD/DVD-ROM drive (optional)	1 slim DVD-ROM drive (optional)
Power Supply	650W high-efficiency power supply	Redundant 740W Platinum Level high-efficiency power supplies with iC & PMBus
Cooling System	4x 8cm hot-swap PWM cooling fans with air shroud with optimal fan speed control	3x 8cm hot-swap PWM cooling fans with air shroud with optimal fan speed control
Form Factor	2U Rackmount 437 x 89 x 648mm (17.2"x 3.5" x 25.6")	2U Rackmount 437 x 89 x 648mm (17.2"x 3.5" x 25.5")

* Please check with your Supermicro sales representative and website for compatibility and configuration details



Multi I/O

Maximum I/O Solutions
11 PCI-E Slots



24-Bay 2U Storage

High Availability Storage Platform



MODEL	SYS-2028R-TXR	SSG-2028R-DE2CR24L
Processor Support	Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s	Redundant dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s
Key Applications	- Surveillance DVR - Networking Telephony - Industrial Server Solutions - Head-node controller - Flash Array Server	High Availability Storage Appliance Platform
Outstanding Features	16 DIMM support DDR4-2400MHz 10x PCI-E 3.0 x8, 1x PCI-E 2.0 x4 (in x8) 16x Hot-swap 2.5" HDD Bays (default 8x HDD Bays) and 1x 5.25" Drive Bays 2 SATA DOMs Support with Embedded Power - Support 1 Slim DVD-ROM and 1 COM & 2 USB3.0 ports module 145W CPU support	- Redundant DP SBB supporting shared 24x 2.5" SAS HDD - Intel® X540 Dual port 10GBase-T - Dual JBOD Expansion Ports per node - NV-DIMM support - Up to 3 add-on cards per node - Redundant 1200W Titanium Level redundant power supplies
Serverboard	SUPER● X10DRX	Redundant SUPER● X10DRS-2U
Chipset	Intel® C612 Chipset	Redundant Intel® C612 chipset
System Memory (Max.)*	Up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots	Redundant up to 1TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 8 DIMM slots
Expansion Slots	10 Low Profile PCI-E 3.0 x8 1 Low Profile PCI-E 2.0 x4 (in x8 slot)	Redundant 3 PCI-E 3.0 x8 Low profile expansion slots per controller
Onboard Storage Controller	Intel® C612 controller for 8 SATA3 (6Gbps) ports; RAID 0,1,5,10	Redundant Broadcom 3008 SAS controller
Connectivity	Dual LAN with Intel® i350 Gigabit Ethernet controller;	Redundant dual LAN with 10GBase-T with Intel® X540 10GbE Controller per node 100M private Ethernet between controller nodes
VGA/Audio	AST2400 VGA	Redundant AST2400 VGA
Management	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog	Redundant IPMI 2.0 + KVM with dedicated LAN
Drive Bays	16x 2.5" hot-swap SATA3 drive bays (8x SATA3 ports by default)	Shared 24x 2.5" hot-swap SAS drive bay with SES2
Peripheral Bays	1x slim DVD-ROM drive bay 1x USB + COM port tray 1x standard 5.25" drive bay	N/A
Power Supply	Redundant 1000W Titanium Level (96%) power supplies	Redundant 1200W Titanium Level high-efficiency power supplies with i ² C and PMBus
Cooling System	5x 8cm hot-swap PWM cooling fans with air shroud with optimal fan speed control	Redundant 4x 4cm PWM cooling fans per node
Form Factor	2U Rackmount 437 x 89 x 650mm (17.2" x 3.5" x 25.6")	2U Rackmount 437 x 89 x 622mm (17.2" x 3.5" x 24.5")

* Please check with your Supermicro sales representative and website for compatibility and configuration details

Dual-Port 40 NVMe
Super SBB StorageDual-Port 20 NVMe
Super SBB Storage

MODEL	SSG-2028R-DN2R40L	SSG-2028R-DN2R20L
Processor Support	Dual set of Redundant dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s	Dual set of Redundant dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s
Key Applications	- Corporate Database - Lustre - HPC - Virtualization	- Corporate Database - Lustre - HPC - Virtualization
Outstanding Features	- Dual-port 40 NVMe - Support SIOM Card for Multiple IO Option 2000W High Efficiency (96%) Titanium Level Redundant Power Supplies	- Dual-port 20 NVMe - Support SIOM Card for Multiple IO Option 2000W High Efficiency (96%) Titanium Level Redundant Power Supplies
Serverboard	Dual set of SUPERMICRO® X10DSN-TS	Dual set of SUPERMICRO® X10DSN-TS
Chipset	Dual set of Intel® C612 chipset	Dual set of Intel® C612 chipset
System Memory (Max.)*	Dual set of 1TB Registered ECC. DDR4-2133MHz in 16 DIMM slots	Dual set of 1TB Registered ECC. DDR4-2133MHz in 16 DIMM slots
Expansion Slots	Dual set of 1 PCI-E 3.0 x16 (HHHL), 1 PCI-E 3.0 x8 (HHHL), 1 SIOM	Dual set of 1 PCI-E 3.0 x16 (HHHL), 1 PCI-E 3.0 x8 (HHHL), 1 SIOM
Onboard Storage Controller	Dual set of Intel® C612 controller for 2 SATA3 (6 Gbps) ports	Dual set of Intel® C612 controller for 2 SATA3 (6 Gbps) ports
Connectivity	Dual set of Dual LAN with Intel® X540 10GBase-T Ethernet Controller	Dual set of Dual LAN with Intel® X540 10GBase-T Ethernet Controller
VGA/Audio	Dual set of 1 VGA by Aspeed AST2400 BMC	Dual set of 1 VGA by Aspeed AST2400 BMC
Management	Dual set of Intel® Node Manager; IPMI 2.0; KVM with dedicated LAN; NMI	Dual set of Intel® Node Manager; IPMI 2.0; KVM with dedicated LAN; NMI
Drive Bays	40x 2.5" hot-swap NVMe drive bays	20x 2.5" NVMe drive bays
Peripheral Bays	N/A	N/A
Power Supply	Redundant 2000W Titanium Level high-efficiency power supplies	Redundant 2000W Titanium Level high-efficiency power supplies
Cooling System	5x 8cm high-performance PWM fans	5x 8cm high-performance PWM fans
Form Factor	2U Rackmount 437 x 89 x 846mm (17.2" x 3.5" x 33.3")	2U Rackmount 437 x 89 x 650mm (17.2" x 3.5" x 25.6")

* Please check with your Supermicro sales representative and website for compatibility and configuration details



2U Simply Double Storage
48 Bay NVMe Drive



2U Simply Double Storage
48 Bay SAS3
Storage Expandable



MODEL	SSG-2028R-NR48N	SSG-2028R-E1CR48N/L
Processor Support	Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s	Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s
Key Applications	- Corporate Database - Data Center - Database Processing & Storage - Enterprise Server - HPC - iSCSI SAN	- Corporate Database - Data Center - Database Processing & Storage - Enterprise Server - HPC - iSCSI SAN
Outstanding Features	48x 2.5" NVMe Drive in 2U Form Factor - Supports dual 145W CPU 24 DIMM sockets - Support SIOM Card for Multiple IO Option - Redundant 1600W Titanium Level high-efficiency power supplies	48x 2.5" Drive in 2U Form Factor -E1CR48N: Broadcom 3108 SAS3 HW RAID controller; -E1CR48L: Broadcom 3008 SAS3 HBA controller - Supports dual 145W CPU 24 DIMM sockets - Support SIOM Card for Multiple IO Option - Redundant 1600W Titanium Level high-efficiency power supplies
Serverboard	SUPER [®] X10DSC+	SUPER [®] X10DSC+
Chipset	Intel® C612 chipset	Intel® C612 chipset
System Memory (Max.)*	Up to 3TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 24 DIMM slots	Up to 3TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 24 DIMM slots
Expansion Slots	2 PCI-E 3.0 x16 1 PCI-E 3.0 x8 Slot 3 occupied by NVMe AOC	2 PCI-E 3.0 x16 1 PCI-E 3.0 x8
Onboard Storage Controller	Onboard NVMe controller	-E1CR48N: Broadcom 3108 SAS3 HW RAID controller; -E1CR48L: Broadcom 3008 SAS3 HBA controller
Connectivity	SIOM card for multiple IO option.	SIOM card for multiple IO option.
VGA/Audio	AST2400 VGA	AST2400 VGA
Management	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog
Drive Bays	48x 2.5" hot-swap NVMe drive bays	48x 2.5" hot-swap SAS3/SATA3 drive bays; Optional 4x NVMe hybrid drive bay support (44x 2.5" + 4x NVMe)
Peripheral Bays	2x 2.5" rear hot-swap drive bays	Optional 2x 2.5" rear drive tray to support quad rear 2.5" drives
Power Supply	1600W Redundant Titanium Level high-efficiency power supplies with I ² C & PMBus	1600W Redundant Titanium Level high-efficiency power supplies with I ² C & PMBus
Cooling System	5x 8cm hot-swap redundant PWM cooling fans	5x 8cm hot-swap redundant PWM cooling fans
Form Factor	2U Rackmount 437 x 89 x 767mm (17.2" x 3.5" x 30.2"); With Cable Management Arm installed: 35.2" (895mm)	2U Rackmount 437 x 89 x 767mm (17.2" x 3.5" x 30.2"); With Cable Management Arm installed: 35.2" (895mm)

* Please check with your Supermicro sales representative and website for compatibility and configuration details



2U Simply Double Storage

24 Bay SAS3 w/ HW RAID
Storage Expandable



2U Simply Double Storage

24 Bay SAS3 w/ IT Mode
Storage Expandable



MODEL	SSG-6028R-E1CR24N	SSG-6028R-E1CR24L
Processor Support	Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s	Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s
Key Applications	- Corporate Database - Data Center - Database Processing & Storage - Enterprise Server - HPC - iSCSI SAN	- Corporate Database - Data Center - Database Processing & Storage - Enterprise Server - HPC - iSCSI SAN
Outstanding Features	24x 3.5" Drive in 2U Form Factor - Broadcom 3108 SAS3 HW RAID controller - Supports dual 145W CPU 24 DIMM sockets - Support SIOM Card for Multiple IO Option - Redundant 1600W Titanium Level high-efficiency power supplies	24x 3.5" Drive in 2U Form Factor - Broadcom 3008 SAS3 HBA controller - Supports dual 145W CPU 24 DIMM sockets - Support SIOM Card for Multiple IO Option - Redundant 1600W Titanium Level high-efficiency power supplies
Serverboard	SUPER [®] X10DSC+	SUPER [®] X10DSC+
Chipset	Intel® C612 chipset	Intel® C612 chipset
System Memory (Max.)*	Up to 3TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 24 DIMM slots	Up to 3TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 24 DIMM slots
Expansion Slots	2 PCI-E 3.0 x16 1 PCI-E 3.0 x8	2 PCI-E 3.0 x16 1 PCI-E 3.0 x8
Onboard Storage Controller	Broadcom 3108 SAS3 HW RAID controller	Broadcom 3008 SAS3 HBA controller
Connectivity	SIOM card for multiple IO option	SIOM card for multiple IO option
VGA/Audio	1 VGA, 1 Aspeed AST2400 BMC	1 VGA, 1 Aspeed AST2400 BMC
Management	Intel® Node Manager, IPMI2.0, NMI, SPM, SUM, SuperDoctor® 5, Watchdog	Intel® Node Manager, IPMI2.0, NMI, SPM, SUM, SuperDoctor® 5, Watchdog
Drive Bays	24x 3.5" hot-swap drive bay; Optional 4x NVMe hybrid drive bay support (20x 3.5" + 4x NVMe)	24x 3.5" hot-swap drive bay; Optional 4x NVMe hybrid drive bay support (20x 3.5" + 4x NVMe)
Peripheral Bays	Optional 2x 2.5" rear drive bay to support quad rear 2.5" drives	Optional 2x 2.5" rear drive bay to support quad rear 2.5" drives
Power Supply	1600W Redundant Titanium Level high-efficiency power supplies with I ² C & PMBus	1600W Redundant Titanium Level high-efficiency power supplies with I ² C & PMBus
Cooling System	5x 8cm hot-swap redundant PWM cooling fans	5x 8cm hot-swap redundant PWM cooling fans
Form Factor	2U Rackmount 437 x 89 x 863.6mm (17.2" x 3.5" x 34"); With Cable Management Arm installed: 41" (1041.4mm)	2U Rackmount 437 x 89 x 863.6mm (17.2" x 3.5" x 34"); With Cable Management Arm installed: 41" (1041.4mm)

* Please check with your Supermicro sales representative and website for compatibility and configuration details



2U Storage

X10 SAS3 HW RAID controller
Storage Expandable



2U Storage

X10 SAS3 HW RAID controller Storage
Expandable



2U Storage

Storage Expandable



MODEL	SSG-6028R-E1CR12T	SSG-6028R-E1CR12N	SSG-6028R-E1CR12H/L
Processor Support	Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s	Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s	Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s
Key Applications	- Corporate Database - Data Center - Database Processing & Storage - Enterprise Server - HPC - iSCSI SAN	- Corporate Database - Data Center - Database Processing & Storage - Enterprise Server - HPC - iSCSI SAN	- Corporate Database - Data Center - Database Processing & Storage - Enterprise Server - HPC - iSCSI SAN
Outstanding Features	- Onboard Broadcom 3108 SAS3 HW RAID controller 12x 3.5" hot-swap SAS3/SATA3 drive bays - Supports dual 145W CPU - Supports 16 DIMM DDR4 up to 2133MHz - Dual 10G BaseT - Redundant 920W Platinum Level (94%+) Power Supplies	- Broadcom 3108 SAS3 HW RAID controller 12x 3.5" SAS3/SATA3 drive bays 145W CPU support 24 DIMM slots 4x 10G BaseT - Dual JBOD Expansion Ports - Redundant 920W Platinum Level high efficiency power supplies	-E1CR12H: Broadcom 3108 SAS3 HW RAID controller -E1CR12L: Broadcom 3008 SAS3 HBA controller 12x 3.5" SAS3/SATA3 drive bays 145W CPU support 16 DIMM slots - Dual 10G BaseT - Dual JBOD Expansion Ports - Redundant 920W Platinum Level high efficiency power supplies
Serverboard	SUPER [®] X10DRH-CT	SUPER [®] X10DRi-T4+	SUPER [®] X10DRH-iT
Chipset	Intel® C612 chipset	Intel® C612 chipset	Intel® C612 chipset
System Memory (Max.)*	Up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots	Up to 3TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 24 DIMM slots	Up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots
Expansion Slots	1 PCI-E 3.0 x16 6 PCI-E 3.0 x8	2 PCI-E 3.0 x16 3 PCI-E 3.0 x8 1 PCI-E 3.0 x4 (in x8) Slot 3 & 4 occupied by controller and JBOD expansion port	1 PCI-E 3.0 x16 6 PCI-E 3.0 x8 Slot 1 & 2 occupied by controller and JBOD expansion port
Onboard Storage Controller	Broadcom 3108 SAS3 onboard controller card	Broadcom 3108 SAS3 HW RAID controller card	-E1CR12H: Broadcom 3108 SAS3 HW RAID controller -E1CR12L: Broadcom 3008 SAS3 HBA controller
Connectivity	Dual 10GBase-T with Intel® X540 10GbE Controller	Quad LAN with Intel® X540 10GBase-T Ethernet Controller	Dual LAN with Intel® X540 10GBase-T Ethernet Controller
VGA/Audio	AST2400 VGA	AST2400 VGA	AST2400 VGA
Management	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog
Drive Bays	12x 3.5" hot-swap SAS3/SATA3 drive bay; Optional 4x NVMe hybrid drive bay support (8x 3.5" + 4x NVMe)	12x 3.5" hot-swap SAS3/SATA3 drive bay; optional 2x 2.5" internal fixed drive bay	12x 3.5" hot-swap SAS3/SATA3 drive bay; Optional 4x NVMe hybrid drive bay support (8x 3.5" + 4x NVMe); 2x 2.5" optional rear hot-swap drive bay
Peripheral Bays	2x 2.5" optional rear hot-swap drive bay	N/A	N/A
Power Supply	920W Redundant Platinum Level high-efficiency power supplies with iC & PMBus	920W Redundant Platinum Level high-efficiency power supplies with iC & PMBus	920W Redundant Platinum Level high-efficiency power supplies with iC & PMBus
Cooling System	3x 8cm hot-swap redundant PWM cooling fans	3x 8cm hot-swap redundant PWM cooling fans	3x 8cm hot-swap redundant PWM cooling fans
Form Factor	2U Rackmount 437 x 89 x 647mm (17.2" x 3.5" x 25.5")	2U Rackmount 437 x 89 x 647mm (17.2" x 3.5" x 25.5")	2U Rackmount 437 x 89 x 647mm (17.2" x 3.5" x 25.5")

* Please check with your Supermicro sales representative and website for compatibility and configuration details



2U Storage

3x Broadcom 3108 HW controller
Low Latency



2U Storage

3x Broadcom 3008 IT Mode controller
Low Latency



2U Storage

16x 3.5" SAS3
w/ HW RAID controller,
Storage Expandable



MODEL	SSG-2028R-ACR24H	SSG-2028R-ACR24L	SSG-6028R-E1CR16T
Processor Support	Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s	Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s	Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s
Key Applications	- High Performance NAS Servers - Web Cache - Corporate Database - Database Processing & Storage - HPC - Large Database	- Corporate Database - Database Processing & Storage - HPC - Large Database - Web Cache	- Corporate Database - Data Center - Database Processing & Storage - Enterprise Server - HPC - iSCSI SAN
Outstanding Features	145W CPU support 3 Broadcom 3108 HW RAID controller - Broadcom SAS 3.0 (12Gbps) support 16 DIMM support DDR4-2133MHz 2x 10GBase-T Ports - IPMI 2.0 + KVM with dedicated LAN	145W CPU support 3 Broadcom 3008 HBA controller 16 DIMM support DDR4-2133MHz - IPMI 2.0 + KVM with dedicated LAN - SAS 3.0 (12Gbps) support 2x 10GBase-T Ports	- Broadcom 3108 SAS3 HW RAID controller 16x 3.5" Hot-swap SAS3 bays - Supports dual 145W CPU 16 DIMM support - Dual 10G BaseT 1280W Platinum Level redundant high-efficiency power supplies
Serverboard	SUPER● X10DRH-iT	SUPER● X10DRH-iT	SUPER● X10DRH-CT
Chipset	Intel® C612 Express chipset	Intel® C612 Express chipset	Intel® C612 chipset
System Memory (Max.)*	Up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots	Up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots	Up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots
Expansion Slots	1 PCI-E 3.0 x16 6 PCI-E 3.0 x8	1 PCI-E 3.0 x16 6 PCI-E 3.0 x8	1 PCI-E 3.0 x16 6 PCI-E 3.0 x8
Onboard Storage Controller	3 Broadcom 3108 HW RAID controller	3 Broadcom 3008 HBA controllers	Broadcom 3108 SAS3 onboard controller
Connectivity	Dual LAN with 10GBase-T with Intel® X540 10GbE Controller	Dual LAN with 10GBase-T with Intel® X540 10GbE Controller	Dual LAN with 10GBase-T with Intel® X540 10GbE Controller
VGA/Audio	AST2400 VGA	AST2400 VGA	AST2400 VGA
Management	Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog	Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog
Drive Bays	24x 2.5" hot-swap SAS3/SATA3 drive bay w/ full SES-II support	24x 2.5" hot-swap SAS3/SATA3 drive bay w/ full SES-II support	16x 3.5" hot-swap SAS3/SATA3 drive bays; Optional 4x NVMe hybrid drive bay support (12x 3.5" + 4x NVMe)
Peripheral Bays	Optional 2x 2.5" Rear Hot-Swap Drive Bays	Optional 2x 2.5" Rear Hot-Swap Drive Bays	2x 2.5" optional rear hot-swap drive bays
Power Supply	Redundant 920W Platinum Level Digital high-efficiency power supplies	Redundant 920W Platinum Level Digital high-efficiency power supplies	1280W Redundant Platinum Level high-efficiency power supplies with iC & PMBus
Cooling System	3x cooling fans	3x cooling fans	4x 8cm hot-swap redundant PWM cooling fans
Form Factor	2U Rackmount	2U Rackmount	2U Rackmount 437 x 89 x 705mm (17.2" x 3.5" x 27.5")

* Please check with your Supermicro sales representative and website for compatibility and configuration details



2U Storage

X10 SAS3 HW RAID controller
Storage Expandable



2U Storage

X10 SAS3 HW RAID controller
Storage Expandable



2U Storage

X10 SAS3 IT mode controller
Storage Expandable



MODEL	SSG-2028R-E1CR24N	SSG-2028R-E1CR24H	SSG-2028R-E1CR24L
Processor Support	Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s	Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s	Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s
Key Applications	- Corporate Database - Data Center - Database Processing & Storage - Enterprise Server - HPC - iSCSI SAN	- Corporate Database - Data Center - Database Processing & Storage - Enterprise Server - HPC - iSCSI SAN	- Corporate Database - Data Center - Database Processing & Storage - Enterprise Server - HPC - iSCSI SAN
Outstanding Features	- Broadcom 3108 SAS3 HW RAID controller 24x 2.5" Hot-swap SAS3 bays 145W CPU support 24 DIMM slots - Quad 10GBase-T Ports - Dual JBOD Expansion Ports 920W Redundant Platinum Level high-efficiency	- Broadcom 3108 SAS3 HW RAID controller 24x 2.5" Hot-swap SAS3 bays 145W CPU support 16 DIMM slots - Dual 10GBase-T - Dual JBOD Expansion Ports 920W Redundant Platinum Level high-efficiency	- Broadcom 3008 SAS3 HBA controller 24x 2.5" Hot-swap SAS3 bays 145W CPU support 16 DIMM slots - Dual 10GBase-T Ports - Dual JBOD Expansion Ports 920W Redundant Platinum Level high-efficiency
Serverboard	SUPER [®] X10DRI-T4+	SUPER [®] X10DRH-iT	SUPER [®] X10DRH-iT
Chipset	Intel® C612 chipset	Intel® C612 chipset	Intel® C612 chipset
System Memory (Max.)*	Up to 3TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 24 DIMM slots	Up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots	Up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots
Expansion Slots	2 PCI-E 3.0 x16 3 PCI-E 3.0 x8 1 PCI-E 3.0 x4 (in x8) Slot 3 & 4 occupied by controller and JBOD expansion port	1 PCI-E 3.0 x16 6 PCI-E 3.0 x8 Slot 1 & 2 occupied by controller and JBOD expansion port	1 PCI-E 3.0 x16 6 PCI-E 3.0 x8 Slot 1 & 2 occupied by controller and JBOD expansion port
Onboard Storage Controller	Broadcom 3108 SAS3 HW RAID controller	Broadcom 3108 SAS3 HW RAID controller	Broadcom 3008 SAS3 HBA controller
Connectivity	Quad LAN with Intel® X540 10GBase-T Ethernet Controller	Dual LAN with Intel® X540 10GBase-T Ethernet Controller	Dual LAN with Intel® X540 10GBase-T Ethernet Controller
VGA/Audio	AST2400 VGA	AST2400 VGA	AST2400 VGA
Management	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog
Drive Bays	24x 2.5" hot-swap SAS3/SATA3 drive bay; optional 2x 2.5" internal fixed drive bay	24x 2.5" hot-swap SAS3/SATA3 drive bay; 2x 2.5" optional rear hot-swap drive bay	24x 2.5" hot-swap SAS3/SATA3 drive bay; 2x 2.5" optional rear hot-swap drive bay
Peripheral Bays	N/A	N/A	N/A
Power Supply	Redundant 1000W Titanium / 920W Platinum Level high-efficiency power supplies with i²C and PMBus	Redundant 1000W Titanium / 920W Platinum Level high-efficiency power supplies with i²C and PMBus	Redundant 1000W Titanium / 920W Platinum Level high-efficiency power supplies with i²C and PMBus
Cooling System	3x 8cm hot-swap redundant PWM cooling fans	3x 8cm hot-swap redundant PWM cooling fans	3x 8cm hot-swap redundant PWM cooling fans
Form Factor	2U Rackmount 437 x 89 x 630mm (17.2" x 3.5" x 24.8")	2U Rackmount 437 x 89 x 630mm (17.2" x 3.5" x 24.8")	2U Rackmount 437 x 89 x 630mm (17.2" x 3.5" x 24.8")

* Please check with your Supermicro sales representative and website for compatibility and configuration details



GPU/Coprocessor

TwinPro/TwinPro²



UP W10

Multiple AOC
Expansion Option



2U UP Storage

SAS 3.0,
12x 3.5" hot-swap HDDs



MODEL	SYS-5028TK-HTR	SYS-5028R-WR	SSG-5028R-E1CR12L
Processor Support	Quad set of Coprocessor (codename Knights Landing); optional integrated Intel® Omni-Path fabric	Single Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s	Single Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s
Key Applications	- HPC/Cluster - Financial Analysis - Oil and Gas Simulation	- Database Processing & Storage - Connectivity/Storage Computer Nodes - Data Warehouse	- Connectivity/Storage Computer Nodes - Application and data serving - High Availability Storage Appliance Platform
Outstanding Features	2 low-profile PCI-E x16 slots - Intel® Omni-Path fabric support 4 hot swappable nodes in 2U - IPMI 2.0 + KVM with dedicated LAN	8x 3.5" Hot-swap SATA3 bays w/ RAID - Redundant 500W Platinum Level power 5 PCI-E 3.0 x8 slots	- Broadcom 3008 controller onboard - Remote management via dedicated IPMI BMC 12x 3.5" hot-swap SAS3 drive bays - Dual JBOD expansion ports
Serverboard	SUPER [®] K1SPi	SUPER [®] X10SRW-F	SUPER [®] X10SRH-CLN4F
Chipset	Intel® C612 Chipset	Intel® C612 Chipset	Intel® C612 Express chipset
System Memory (Max.)*	Quad set of up to 384GB ECC LRDIMM, 192GB ECC RDIMM, DDR4-2400MHz in 6 DIMM slots	Up to 1TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 8 DIMM slots	Up to 1TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 8 DIMM slots
Expansion Slots	Quad set of 2 PCI-E x16 (LP)	5 PCI-E 3.0 x8 slots	4x PCI-E 3.0 (x8/4, x16/8, x8) + 2x PCI-E 2.0 (x8/4, x4/2); Slot 1 occupied by JBOD expansion port
Onboard Storage Controller	Quad set of Intel® C612 controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10	Intel® C612 controller for 8 SATA3 (6 Gbps) ports; RAID 0,1,5,10	Broadcom 3008 onboard controller IR mode
Connectivity	Quad set of Dual LAN with Intel® i350 Gigabit Ethernet controller	2x GbE port, 1x dedicated IPMI port	4x GbE port, 1x dedicated IPMI port
VGA/Audio	AST2400 VGA	AST2400 VGA	AST2400 VGA
Management	Quad set of IPMI 2.0 + KVM with dedicated LAN	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog
Drive Bays	Quad set of 3x 3.5" hot-swap SATA drive bays	8x 3.5" Hot-swap SATA3 bays w/ RAID; optional fixed drive bays	12x 3.5" Hot-swap SAS3 Drive Bays 2x 2.5" optional hot-swap drive bays
Peripheral Bays	1x slim DVD-ROM drive bay 2x USB 2.0 ports (option)	1x slim DVD-ROM drive bay 2x USB 2.0 ports (option)	N/A
Power Supply	Redundant 2000W Platinum Level high-efficiency Power Supplies with I ² C & PMBus	Redundant 500W Platinum Level power supplies optional BBP™ module support	Redundant 920W Platinum Level Digital high-efficiency power supplies
Cooling System	4x 8cm heavy duty PWM fans with air shroud and optimal fan speed control	3x middle cooling fans	3x cooling fans
Form Factor	2U Rackmount 438 x 88 x 762mm (17.25" x 3.47" x 30")	2U Rackmount 437 x 89 x 647mm (17.2" x 3.5" x 25.5")	2U Rackmount 437 x 89 x 648mm (17.2"x3.5"x25.6")

* Please check with your Supermicro sales representative and website for compatibility and configuration details



Embedded

Compact Mini Tower
7 years product life cycle,
IPMI, Low Power



3 independent displays, M.2 slot,
7 years product life cycle



Embedded

vPro, 3 Independent Displays



MODEL	SYS-5029A-2TN4	SYS-5029AP-TN2	SYS-5029S-TN2
Processor Support	Intel® Atom® Processor C3338	Intel® Atom® Processor E3940	6th Generation Intel® Core™ i7 Processor, Intel® Core™ i5 Processor, Intel® Core™ i3 Processor, Intel® Celeron® processor, and Intel® Pentium® processor product families supported, LGA1151 Socket H4
Key Applications	7 Years Life Cycle - Compact Cloud Server - Edge Computing Device	- Database Processing & Storage - High Performance NAS Servers - Medical Applications - Security Appliance and Video Surveillance - Web Server for Small and Medium Business - Indoor Kiosk	- Database Processing & Storage - High Performance NAS Servers - Security Appliance and Video Surveillance - Web Server for Small and Medium Business
Outstanding Features	- Quad Gigabit Ethernet LAN - Up to 4x hot-swap 3.5" SATA3 drives - IPMI 2.0 (dedicated LAN) with Virtual Media/KVM over LAN - TPM 1.2 Headers 7 year life cycle	- Up to 4 Hot-Swap 3.5" SATA3 HDD, 2 internal 2.5" fixed HDD and 1 M.2 (M key 2242/80 PCI-E 3.0x4) 2x Gigabit LAN ports - Embedded long life - Quiet Operation	- Up to 4 Hot-Swap 3.5" Drive Bay and 2 internal 2.5" fixed Drive Bay, support up to 5 Drives - Remote management via vPro technology - DP, HDMI and DVI-I: 3 independent displays - Embedded long life - Quiet Operation
Serverboard	SUPER● A2SDI-2C-HLN4F	SUPER● A2SAV	SUPER● X11SSV-Q
Chipset	System on Chip chipset	System on Chip chipset	Intel® Q170
System Memory (Max.)*	Up to 64GB RDIMM or 32GB ECC/NON ECC UDIMM, DDR4-1866MHz in 2 DIMM slots	8GB Unbuffered non-ECC DDR3-1866MHz SO-DIMM in 1 DIMM slot	Up to 32GB Unbuffered non-ECC SO-DIMM, DDR4-2133MHz, in 2 DIMM slots
Expansion Slots	1x PCI-E 3.0 x2 (in x4 open ended slot)	1 PCI-E 3.0 x16 slot 1 M.2 (M key 2242/80 PCI-E 3.0x4) 1 Mini-PCI-E with mSATA support	1 PCI-E 3.0 x16 slot (Low profile), 1 M.2 (Mkey 2242/80 PCI-E 3.0 x4), 1 Mini-PCI-E with mSATA support
Onboard Storage Controller	SoC controller for 6 SATA3 (6 Gbps) ports	Marvel 88SE9230 controller for 4 SATA3 (6 Gbps) ports; RAID 0,1,5,10; SoC controller for 2 SATA3 (6 Gbps) ports	Intel® Q170 Express controller for 5 SATA3 (6 Gbps) ports; RAID 0,1,5,10
Connectivity	Quad LAN with Intel® C3000 SoC, 4x USB2.0, 1x USB3.0 (Type A)	2x USB3.0 (rear), 4x USB2.0 (2 rear, 2 front), 1 x USB2.0 Type A 1x Serial Port via RJ45, TPM 1.2 onboard	2x RJ45 Gigabit Ethernet LAN 4x USB 3.0, 2x USB 2.0 front, 1x USB 2.0 Type A 2x Serial Port, TPM 1.2 onboard Header
VGA/Audio	1 VGA, 1 Aspeed AST2400 BMC	1 HDMI, 1 DP (Display Port), 1 VGA, 1 Intel® HD Graphics 3 Independent Displays	1 HDMI, 1 DP (Display Port) 1 DVI-D Intel® HD Graphics, 3 Independent Displays ALC 888S HD Audio
Management	IPMI2.0; KVM with dedicated LAN; NMI; SUM; SuperDoctor® 5; Watchdog	AMT; vPro	AMT; vPro; SuperDoctor® 5
Drive Bays	4x 3.5" hot-swap SAS/SATA 2x 2.5" fixed drive bay	4x 3.5" hot-swap SAS/SATA 2x 2.5" fixed drive bay	4x 3.5" hot-swap SAS/SATA 2x 2.5" fixed drive bay
Peripheral Bays	1x slim DVD-ROM drive bay (shared with 1 x 2.5" fixed drive bay)	1x slim DVD-ROM drive bays	1x slim DVD-ROM drive bays
Power Supply	250W Flex ATX Multi-output Bronze Power Supply	250W Flex ATX Multi-output Bronze Power Supply	1U 250W Flex ATX Multi-output Bronze power supply
Cooling System	1x 12cm rear exhaust fan	1x 12cm rear exhaust fan	1x 12cm rear exhaust fan, SNK-P0046A4 (optional)
Form Factor	Mini-Tower 210 x 240 x 280mm (8.27" x 9.45" x 11")	Mini-Tower 210 x 240 x 280mm (8.27" x 9.45" x 11")	Mini-Tower 210 x 240 x 280mm (8.27" x 9.45" x 11")

* Please check with your Supermicro sales representative and website for compatibility and configuration details



Embedded

Compact Mini Tower
3 Independent Displays



Embedded

Compact Mini Tower
Intel® Atom® Processor Appliance



Embedded

Compact Mini Tower
Intel® Xeon® Processor D-1541, 8-Core, 45W
Dual 10/1GbE LAN



MODEL	SYS-5028L-TN2	SYS-5028A-TN4	SYS-5028D-TN4T
Processor Support	Intel® Xeon® Processor E3-1200 v3 and Intel® Core™ i7 Processor, Intel® Core™ i5 Processor, Intel® Core™ i3 Processor product families supported	Intel® Atom® Processor C2758	Intel® Xeon® processor D-1541
Key Applications	- Compact Cloud Server - Database Processing & Storage - High Performance NAS Servers - Business Intelligence - Security Appliance and Video Surveillance - Web Server for Small and Medium Business	- Embedded Applications - Cloud and Virtualization needs - NAS Servers - SOHO Entry-Level Server - Corporate- WINS, DNS, Print, Login - e-Business	- Network Security Appliance - Compact Cloud Server - High Performance NAS Servers - Virtualization Server - Business Critical Applications - Web Server for Small and Medium Business
Outstanding Features	- Up to 4 Hot-Swap 3.5" Drive Bay and 2 internal 2.5" fixed Drive Bay, support up to 4 DrivesDP, HDMI and DVI-I: 3 independent displays 2x Gigabit LAN ports - TPM 1.2 Headers - Up to 16GB DDR3 non-ECC 1600MHz SODIMM 1x PCI-E 3.0 x16 slot	8-Core Intel® Atom® Processor - Long Life - Compact Mini Tower 4x 3.5" SATA Hot Swap Tray and 2 x2.5" internal HDD bay - Support up to 64G ECC SODIMM - One low profile expansion slot for PCI-E2.0x8	- Intel® Xeon® processor D-1541, Single socket FCBGA 1667; 8-Core, 45W 2x Gigabit + 2x 10G LAN ports - Up to 4 Hot-Swap 3.5" SATA3 HDD and 2 internal 2.5" fixed HDD - Up to 128GB ECC RDIMM DDR4 2133MHz or 64GB ECC/ non-ECC UDIMM in 4 sockets 1x Low Profile PCI-E 3.0 x16 and 1x M.2 PCI-E 3.0 x4, M Key 2242/2280 - IPMI 2.0 + KVM with dedicated LAN
Serverboard	SUPER●X10SLV-Q	SUPER●A1SRI-2758F	SUPER●X10SDV-TLN4F
Chipset	Intel® Q87	System on Chip chipset	System on Chip chipset
System Memory (Max.)*	16 GB, DDR3-1600MHz non-ECC in 2x 204-pin SODIMM	Up to 64 GB ECC SODIMM 4 DIMM slots	128GB Registered ECC, DDR4-2133MHz or 64GB Unbuffered ECC/non-ECC, DDR4-2133MHz in 4 DIMM slots
Expansion Slots	1 PCI-E 3.0 x16 slot 1 Mini-PCI-E w/ mSATA support	1 PCI-E 2.0 x8	1 PCI-E 3.0 x16 (Low Profile) 1 M.2 PCI-E 3.0 x4 M Key 2242/2280
Onboard Storage Controller	On board controller for 4x SATA 3.0 ports (6Gbps) with RAID 0,1,5,10	SoC controller for 4 SATA2 (3 Gbps) ports; 2 SATA3 (6 Gbps)	SoC controller for 6 SATA3 (6 Gbps) ports
Connectivity	2x USB 3.0 ports (rear) 4x USB 2.0 ports (2 rear, 2 front via headers) 2x RJ45 Gigabit Ethernet LAN ports	4x USB 3.0 ports (rear) 2x USB 2.0 ports (front) Quad RJ45 Gigabit Ethernet LAN	2x Gigabit and 2x 10G RJ45 Ethernet LAN 2x USB 3.0 ports (rear) 2x USB 2.0 ports (front panel)
VGA/Audio	Intel® HD 4600 Graphics Processor Graphic - 1x DisplayPort, 1x HDMI, 1x DVI-I, 3 Independent Displays, ALC 888S HD Audio	AST2400 VGA	AST2400 VGA
Management	Intel® Node Manager, SuperDoctor® 5, Watchdog	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SuperDoctor® 5, Watchdog	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SuperDoctor® 5, Watchdog
Drive Bays	4x 3.5" hot-swap SAS/SATA 2x 2.5" fixed drive bay	4x 3.5" SATA Hot Swap Tray and 2 x2.5" internal HDD bay	4x 3.5" hot-swap SAS/SATA 2x 2.5" fixed drive bay
Peripheral Bays	1x slim DVD-ROM drive bay	1x slim DVD-ROM drive bay	1x slim DVD-ROM drive bay
Power Supply	1U 250W Flex ATX Multi-output Bronze power supply	1U 250W Flex ATX Multi-output Bronze power supply	1U 250W Flex ATX Multi-output Bronze power supply
Cooling System	1x 12cm rear exhaust fan 1x Active CPU cooler	1x 12cm rear exhaust fan	1x 12cm rear exhaust fan 1x Active CPU cooler
Form Factor	Mini-Tower 210 x 240 x 279.4mm (8.27" x 9.45" x 11")	Mini-Tower 210 x 240 x 279.4mm (8.27" x 9.45" x 11")	Mini-Tower 210 x 240 x 279.4mm (8.27" x 9.45" x 11")

* Please check with your Supermicro sales representative and website for compatibility and configuration details

**EX DP**

32 DIMMs, 2U, 2 Node,
(15-Core)

**EX DP**

32 DIMMs, 2U, 2 Node,
(15-Core)



MODEL	SYS-2028UT-BC1NRT	SYS-2028UT-BTNRT
Processor Support	Dual Intel® Xeon® Processor E7-8800 v2, Intel® Xeon® Processor 4800 v2, and Intel® Xeon® Processor 2800 v2 product families with QPI up to 8GT/s	Dual Intel® Xeon® Processor E7-8800 v2, Intel® Xeon® Processor 4800 v2, and Intel® Xeon® Processor 2800 v2 product families with QPI up to 8GT/s
Key Applications	- High-performance computing - HPC - Virtualization	- High-performance computing - HPC - Virtualization
Outstanding Features	2 hot swappable nodes in 2U 2x 10GBase-T Ports - IPMI 2.0 + KVM with dedicated LAN - Broadcom 3108 controller for 8 SAS3 (12 Gbps) hot-swappable drives - Micro LP PCI-E 2.0 x 8	2 hot swappable nodes in 2U 2x 10GBase-T Ports - IPMI 2.0 + KVM with dedicated LAN - Micro LP PCI-E 2.0 x 8
Serverboard	SUPERMICRO X10DBT-T	SUPERMICRO X10DBT-T
Chipset	Intel® C602 chipset	Intel® C602 chipset
System Memory (Max.)*	Up to 2TB ECC LRDIMM DDR3, 1600MHz in 32 DIMM slots	Up to 2TB ECC LRDIMM DDR3, 1600MHz in 32 DIMM slots
Expansion Slots	2x PCI-E 3.0 x16 FH/HL 1x PCI-E 3.0 x8 MicroLP card	2x PCI-E 3.0 x16 FH/HL 1x PCI-E 3.0 x8 MicroLP card
Onboard Storage Controller	Twin set of Broadcom 3108 SAS3 (12Gbps); RAID 0,1,5,6,10,50	
Connectivity	Dual 10GBase-T ports with Intel® X540 controller	Dual 10GBase-T ports with Intel® X540 controller
VGA/Audio	Twin set of AST2400 VGA	Twin set of AST2400 VGA
Management	Twin set of IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog	Twin set of IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog
Drive Bays	2x NVMe drive bays; 8x 2.5" hot-swap SATA3 HDD bays	2x NVMe drive bays; 8x 2.5" hot-swap SATA3 HDD bays
Peripheral Bays	N/A	N/A
Power Supply	1280W Redundant Platinum Level Digital (95%+) high-efficiency power supplies	1280W Redundant Platinum Level Digital (95%+) high-efficiency power supplies
Cooling System	4x 8cm PWM fans	4x 8cm PWM fans
Form Factor	2U Rackmount 438 x 88 x 679mm (17.25" x 3.47" x 26.75")	2U Rackmount 438 x 88 x 679mm (17.25" x 3.47" x 26.75")

* Please check with your Supermicro sales representative and website for compatibility and configuration details



Multi I/O

11 PCI-E Slots



3U Storage

X10 HW SAS3 controller
Storage Expandable



3U Storage

X10 SAS3 HW/IT mode controller
Storage Expandable



MODEL	SYS-6038R-TXR	SSG-6038R-E1CR16N	SSG-6038R-E1CR16H SSG-6038R-E1CR16L
Processor Support	Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s; CPU TDP support Up to 145W		
Key Applications	- Networking Telephony - Surveillance DVR - Industrial Server Solutions - Head-node controller	- Corporate Database - Data Center - Database Processing & Storage - Enterprise Server - HPC - iSCSI SAN	- Corporate Database - Data Center - Database Processing & Storage - Enterprise Server - HPC - iSCSI SAN
Outstanding Features	16 DIMM slots 10x PCI-E 3.0 x8, 1x PCI-E 2.0 x4 (in x8) 8x Hot-swap 3.5" HDD Bays and 2x 5.25" Drive Bays 2 SATA DOMs Support with Embedded Power 145W CPU support	- Broadcom 3108 SAS3 HW RAID controller 16x 3.5" SAS3/SATA3 drive bays 130W CPU support 24 DIMM slots 4x 10G BaseT - Dual JBOD Expansion Ports 920W Platinum Level high efficiency power supply	16x 3.5" Hot-swap SAS3 drive bays 130W CPU support 16 DIMM slots - Dual 10G BaseT - Dual JBOD Expansion Ports 920W Platinum Level high efficiency power supply
Serverboard	SUPER●X10DRX	SUPER●X10DRi-T4+	SUPER●X10DRH-iT
Chipset	Intel® C612 chipset	Intel® C612 chipset	Intel® C612 chipset
System Memory (Max.)*	Up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots	Up to 3TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 24 DIMM slots	Up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots
Expansion Slots	10 PCI-E 3.0 x8 (FH, FL), 1 PCI-E 2.0 x4 (in x8 slot)	2 PCI-E 3.0 x16, 3 PCI-E 3.0 x8, 1 PCI-E 3.0 x4 (in x8) Slot 3 & 4 occupied by controller and JBOD Expansion Port	1 PCI-E 3.0 x16, 6 PCI-E 3.0 x8, Slot 1 & 2 occupied by controller and JBOD Expansion Port
Onboard Storage Controller	Intel® C612 controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10	Broadcom 3108 SAS3 HW RAID controller	-E1CR16H: Broadcom 3108 SAS3 HW RAID controller; -E1CR16L: Broadcom 3008 SAS3 HBA controller
Connectivity	Dual LAN with Intel® i350 Gigabit Ethernet Controller	Quad LAN with Intel® X540 10GBase-T Ethernet Controller	Dual LAN with 10GBase-T with Intel® X540 10GbE Controller
VGA/Audio	AST2400 VGA	AST2400 VGA	AST2400 VGA
Management	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog
Drive Bays	8x 3.5" hot-swap and 2x 5.25" drive bay	16x 3.5" hot-swap SAS3/SATA3 drive bay; 2x 2.5" optional rear hot-swap drive bay	16x 3.5" hot-swap SAS3/SATA3 drive bay; 2x 2.5" optional rear hot-swap drive bay
Peripheral Bays	1 optional Slim DVD-ROM bay	1 optional Slim DVD-ROM bay	1 optional Slim DVD-ROM bay
Power Supply	Redundant 1280W Platinum Level Digital power supplies w/PMBus supports	920W Redundant Platinum Level high-efficiency power supplies with iC & PMBus	920W Redundant Platinum Level high-efficiency power supplies with iC & PMBus
Cooling System	3x middle fans & 1x rear exhaust fan	3x 8cm hot-swap redundant PWM cooling fans. 2x 80mm rear hot-swap exhaust PWM fan	3x 8cm hot-swap redundant PWM cooling fans. 2x 80mm rear hot-swap exhaust PWM fan
Form Factor	3U Rackmount 437 x 132 x 647mm (17.2" x 5.2" x 25.5")	3U Rackmount 437 x 132 x 647mm (17.2" x 5.2" x 25.5")	3U Rackmount 437 x 132 x 647mm (17.2" x 5.2" x 25.5")

* Please check with your Supermicro sales representative and website for compatibility and configuration details



SBB 3U Storage

High Availability Storage Platform



GPU/Coprocessor

Code Optimization



MODEL	SSG-6038R-DE2CR16L	SYS-5038K-i
Processor Support	Redundant dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s	Single Intel® Xeon Phi™ x200 processor (LGA 3647) supported (non-fabric)
Key Applications	High Availability Storage Appliance Platform	- HPC/Cluster - Financial Analysis - Oil and Gas Simulation - Code Optimization
Outstanding Features	- Redundant DP SBB supporting shared 16x 3.5" HDD - Intel® X540 dual port 10GbE-T - Dual JBOD expansion ports per node - NV-DIMM support - Up to 3 add-on cards per node - Redundant 1200W Titanium Level (96%+) power supplies	- Quiet Operation (31 dBA for 215 W CPUs) - Single Intel® Xeon Phi™ x200 Processor - IPMI 2.0 + KVM with dedicated LAN - Mid Tower ATX Chassis
Serverboard	Redundant SUPERMICRO® X10DRS-3U	SUPERMICRO® K1SPE
Chipset	Redundant Intel® C612 chipset	Intel® C612 chipset
System Memory (Max.)*	Redundant up to 1TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 8 DIMM slots	Up to 384GB ECC LRDIMM, 192GB ECC RDIMM, DDR4-2400MHz in 6 DIMM slots
Expansion Slots	Redundant 3 PCI-E 3.0 x8 (1x HHHL, 2x LPHL) expansion slots per controller	2 PCI-E 3.0 x16; 1 PCI-E 3.0 x4
Onboard Storage Controller	Redundant Broadcom 3008 SAS3 controller	Intel® C612 controller with SATA3 (6 Gbps) ports supporting RAID 0,1,5
Connectivity	Redundant dual LAN with 10GbE-T with Intel® X540 10GbE Controller per node; 100M private Ethernet between controller nodes	Dual LAN with Intel® i350 Gigabit Ethernet controller
VGA/Audio	Redundant AST2400 VGA	Aspeed AST2400 BMC
Management	Redundant IPMI 2.0 + KVM with dedicated LAN	IPMI 2.0 + KVM with dedicated LAN
Drive Bays	Shared 16x 3.5" hot-swap SAS drive bay with SES2	6x 3.5" toolless HDD trays; 4x 2.5" toolless HDD trays
Peripheral Bays	N/A	2x 5.25" bays
Power Supply	Redundant 1200W Titanium (96%+) Level high-efficiency power supplies with I ² C & PMBus	750W Multi-output 80Plus Gold power supply
Cooling System	Redundant 6x 4cm PWM cooling fans per node	Dual cooling zones; 2x 120 mm front chassis fans, 1x 80 mm mid chassis fan, 1x 120 mm rear chassis fan, 2x 120 mm radiator exhaust fans, and a closed loop liquid cooling unit
Form Factor	3U Rackmount 437 x 132 x 647mm (17.2" x 5.2" x 25.5")	Mid-Tower ATX 201 x 460 x 493mm (7.9" x 18.1" x 19.4")

* Please check with your Supermicro sales representative and website for compatibility and configuration details

4U 10-GPU/Coprocessor

under single CPU root



4U 8-GPU/Coprocessor



MODEL	SYS-4028GR-TRT2 SYS-4028GR-TR2	SYS-4028GR-TXRT SYS-4028GR-TXR
Processor Support	Intel® Xeon® processor E5-2600 v4 product family with QPI up to 9.6GT/s	
Key Applications	- Artificial Intelligence - Big Data Analytics - High-performance computing - Research lab/National Lab - Astrophysics - Business Intelligence	
Outstanding Features	- Supports 8 GPU under one CPU Root - Optimized for GPUDirect RDMA 24x 2.5" SATA drives - IPMI 2.0 + KVM with dedicated LAN 24 DIMM sockets	
Serverboard	-TRT2: SUPER● X10DRG-OT+-CPU -TR2: SUPER● X10DRG-O+-CPU	-TXRT: SUPER● X10DRG-OT+-CPU -TXR: SUPER● X10DRG-O+-CPU
Chipset	Intel® C612 Chipset	
System Memory (Max.)*	Up to 3TB DDR4-2400MHz in 24 DIMM slots	
Expansion Slots	11 x PCI-E 3.0 x16 support up to 10 double width GPU, 1 x PCI-E 3.0 x8	4 x PCI-E 3.0 x16 2 x PCI-E 3.0 x8
Onboard Storage Controller	Intel® C612 controller for 4 SATA3 (6Gbps) Ports; RAID 0,1,5,10	
Connectivity	-TRT2: Dual LAN with 10GBase-T with Intel® X540 10GbE Controller; Dual LAN with Intel I350 Gigabit Ethernet controller -TRT: Dual LAN with Intel® i350 Gigabit Ethernet Controller	-TXRT: Dual LAN with 10GBase-T with Intel® X540 10GbE Controller; Dual LAN with Intel I350 Gigabit Ethernet controller -TXR: Dual LAN with Intel® i350 Gigabit Ethernet Controller
VGA/Audio	Matrox G200ew graphics	
Management	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog	
Drive Bays	24 x 2.5" HDD drive bays	
Peripheral Bays	N/A	
Power Supply	4x 2000W Redundant Titanium Level (96%+) high-efficiency power supplies with I2C & PMBus	
Cooling System	8x 92mm heavy duty counter-rotating fans with air shroud & optimal fan speed control	
Form Factor	4U Rackmount 437 x 178 x 737mm (17.2" x 7.0" x 29")	4U Rackmount 447 x 178 x 805mm (17.6" x 7.0" x 31.7")

* Please check with your Supermicro sales representative and website for compatibility and configuration details

Supports 8 GPU/Coprocessor

Thunderbolt Support
Supports 4 GPU/Coprocessor

MODEL	SYS-4028GR-TR(T)	SYS-7048GR-TR	SYS-6048R-TXR
Processor Support	Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s	Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s	Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s; CPU TDP support up to 145W
Key Applications	3D Rendering - Astrophysics - Chemistry - Cloud and Virtualization needs - Cloud Computing - Compute Intensive Application	- HPC cluster computer nodes - Simulation and Creation Design - Imaging and Computer Vision	- Networking Telephony - Surveillance DVR - Industrial Server Solutions - Head-node controller
Outstanding Features	- Up to 8 GPU/Coprocessor in 4U 24 DIMM slots 24x 2.5" SATA drives - GPU health monitoring with fan speed control 4x 1600W Redundant Platinum Level power supplies	1TB DDR4-2133MHz in 16 DIMMs 7.1 HD Audio Header - Thunderbolt AOC support 8x 3.5" hot-swap SATA drive bays - GPU health monitoring with fan speed control - Redundant 2000W Titanium Level power 4x PCI-E 3.0 x16 slots, 2x PCI-E 3.0 x8 (1 in x16), 1x PCI-E 2.0 x4 (in x8)	- Supports 16 DIMM DDR4-2133MHz - Up to 11 PCI-E slots 5 hot-swap 3.5" drives bays (SATA3 ports) 3x 5.25" Peripheral Drive Bays 2 SATA DOMs Support with Embedded Power
Serverboard	-TR: SUPER X10DRG-O+-CPU, X10DRG-O-PCI-E -TRT: SUPER X10DRG-OT+-CPU, X10DRG-O-PCI-E	SUPER X10DRG-Q	SUPER X10DRX
Chipset	Intel® C612 chipset	Intel® C612 chipset	Intel® C612 chipset
System Memory (Max.)*	Up to 3TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 24 DIMM slots	Up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots	Up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots
Expansion Slots	8x PCI-E 3.0 x16 (support up to 8 double width GPUs) 2x PCI-E 3.0 x8 1x PCI-E 2.0 x4	4 PCI-E 3.0 x16 (double-width), 2 PCI-E 3.0 x8 (1 in x16 slot), 1 PCI-E 2.0 x4 (in x8), Support Thunderbolt 2.0 AOC	10 PCI-E 3.0 x8 (FH, FL), 1 PCI-E 2.0 x4 (in x8 slot)
Onboard Storage Controller	Intel® C612 controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10	Intel® C612 AHCI controller for 8 SATA3 (6 Gbps) ports; RAID 0,1,5,10	Intel® C612 controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10
Connectivity	-TR: Dual LAN with Intel® i350 Gigabit Ethernet Controller; -TRT: Dual LAN with Intel® X540 10GBase-T Ethernet Controller	Dual LAN with Intel® i350 Gigabit Ethernet Controllers	Dual LAN with Intel® i350 Gigabit Ethernet Controller
VGA/Audio	AST2400 VGA	AST2400 VGA	AST2400 VGA
Management	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog
Drive Bays	24x hot-swap 2.5" SAS/SATA drives	8x hot-swap 3.5" SAS/SATA drives	5x 3.5" hot-swap and 3x 5.25" peripheral drive bays
Peripheral Bays	N/A	3x 5.25" drive bays in storage module - rotates 90° for Rackmount, 1x 3.5" fixed drive bay	1 optional Slim DVD-ROM bay
Power Supply	Four 1600W (2+2) Redundant Platinum Level high-efficiency power supplies with iC & PMBus	Redundant 2000W Titanium Level high-efficiency power supplies with iC & PMBus	Redundant 600W power supplies
Cooling System	8x 92mm RPM Hot-Swappable Cooling Fans	4x 92x38mm 4-pin PWM Middle Cooling Fans, 2x 80x38mm 4-pin PWM Rear Exhaust Fans	1x 92x38mm 4-pin PWM front intake fan 2x 80x38mm 4-pin PWM rear exhaust fans
Form Factor	4U Rackmount 437 x 178 x 737mm (17.2" x 7" x 29")	4U Tower 462 x 178 x 673mm (18.2" x 7" x 26.5")	4U Rackmount 437 x 178 x 525mm (17.2" x 7" x 20.68")

* Please check with your Supermicro sales representative and website for compatibility and configuration details



4U Storage

Double-Sided Storage



Capacity Maximized

Top-Loading 45 Bay



MODEL	SSG-6048R-E1CR72L	SSG-6048R-E1CR45H SSG-6048R-E1CR45L
Processor Support	Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s	Intel® Xeon® processor E5-2600 V3 Intel® Xeon® processor E5-2600 V4 with QPI up to Dual 8.0GT/s
Key Applications	• CDN • Media/Streaming • NAS and IP-SAN • Unstructured Data Storage • Virtual Tape	• Corporate Database • Data Center • Database Processing & Storage • Enterprise Server • HPC • iSCSI SAN
Outstanding Features	• High Density 4U Server supports 72x 3.5" SAS3 drives • Supports dual 145W CPU • Supports 16 DIMM DDR4 up to 2133MHz • Support 72x 3.5" SAS3 HDD • 3 Broadcom 3008 SAS3 HBA controllers • Dual 10G BaseT	• 45x 3.5" Drive in 4U Form Factor • Supports up to Dual 160W Broadwell CPU • 24 DIMM sockets • Optional 6x NVMe drive bay • Support SIOM Card for Multiple IO Option • -H: Broadcom 3108 SAS3 controller • -L: Broadcom 3008 SAS3 controller; RAID 0, 1, 10
Serverboard	SUPER [®] X10DRH-IT	
Chipset	Intel® C612 chipset	Intel® C624 chipset
System Memory (Max.)*	Up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots	Up to 1TB 3DS ECC, DDR4-2666MHz in 16 DIMM slots
Expansion Slots	3x slots occupied by IT Mode disk controllers Broadcom 3008; 4x Low profile slots available	3 PCI-E 3.0 x16; 4 PCI-E 3.0 x8;
Onboard Storage Controller	3 Broadcom 3008 SAS3 HBA controllers	Intel® C624 controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10;
Connectivity	Dual LAN with 10GBase-T with Intel® X540 10GbE Controller	Dual LAN with 10GBase-T with Intel® X557;
VGA/Audio	AST2400 VGA	1 VGA
Management	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog	Intel® Node Manager; IPMI2.0; KVM with dedicated LAN; SPM; SSM; SUM; SuperDoctor® 5; Watchdog;
Drive Bays	72x 3.5" hot-swap SAS3/SATA3 drive bays with SES2	45x 3.5" hot-swap SAS/SATA drive bay with SES3
Peripheral Bays	2x 2.5" rear hot-swap drive bays	2x 2.5" hot-swap drive bay
Power Supply	2000W Redundant Platinum Level high-efficiency power supplies with i°C & PMBus	Yes Redundant 2 Qty. PWS-1K66P-1R
Cooling System	7x 92mm hot-swap redundant PWM cooling fans	5x 80mm rear hot-swap exhaust PWM fan;
Form Factor	4U Rackmount 437 x 178 x 889mm (17.2"x7"x35")	4U Rackmount 437 x 178 x 660mm (17.2" x 7" x 26")

* Please check with your Supermicro sales representative and website for compatibility and configuration details



4U Storage

60x 3.5" SAS3 Drive Bays,
w/ IT mode controller, Storage Expandable



4U Storage

90x 3.5" Drive Bays



MODEL	SSG-6048R-E1CR60N SSG-6048R-E1CR60L	SSG-6048R-E1CR90L
Processor Support	Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s; Supports up to 160W	Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s
Key Applications	- Corporate Database - Data Center - Database Processing & Storage - Enterprise Server - HPC - iSCSI SAN	- Corporate Database - Data Center - Database Processing & Storage - Enterprise Server - HPC - iSCSI SAN
Outstanding Features	60x 3.5" Drive in 4U Form Factor -N: Broadcom 3108 SAS3 HW RAID controller -L: Broadcom 3008 SAS3 HBA controller - Supports dual 145W CPU 24 DIMM sockets - Support SIOM Card for Multiple IO Option - Redundant 2000W Titanium Level high-efficiency power supplies - LCD screen	90x 3.5" Drive in 4U Form Factor 2 Broadcom 3008 SAS3 HBA controllers - Support Dual Intel Boardwell CPU 8 DIMM sockets - Support SIOM Card for Multiple IO Option 4x 1000W Titanium Level high-efficiency power supplies - Quad LAN 10G SFP+ LAN ports
Serverboard	SUPER [®] *X10DSC+	SUPER [®] *X10DSC-TP4S
Chipset	Intel® C612 chipset	Intel® C612 chipset
System Memory (Max.)*	Up to 3TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 24 DIMM slots	Up to 1TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 8 DIMM slots
Expansion Slots	2 PCI-E 3.0 x16 1 PCI-E 3.0 x8	N/A
Onboard Storage Controller	-N: Broadcom 3108 SAS3 HW RAID controller -L: Broadcom 3008 SAS3 HBA controller	2 Broadcom 3008 SAS3 HBA controllers
Connectivity	SIOM card for multiple IO option	SIOM card for multiple IO option; On board Quad LAN 10G SFP+ with Intel X710
VGA/Audio	AST2400 VGA	AST2400 VGA
Management	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog
Drive Bays	60x 3.5" hot-swap SAS3/SATA3 drive bays; 6x optional NVMe drive bays	90x 3.5" hot-swap SAS3/SATA3 drive bays
Peripheral Bays	2x 2.5" rear hot-swap drive bays	2x 2.5" rear hot-swap drive bays
Power Supply	2000W Redundant Titanium Level high-efficiency power supplies with iPC & PMBus	4x 1000W Redundant Titanium Level high-efficiency power supplies with iPC & PMBus
Cooling System	5x 8cm hot-swap redundant PWM cooling fans	5x 8cm hot-swap redundant PWM cooling fans
Form Factor	4U Rackmount 447 x 178 x 906mm (17.6"x7"x35.66")	4U Rackmount 447 x 178 x 906mm (17.6"x7"x35.66")

* Please check with your Supermicro sales representative and website for compatibility and configuration details



4U Storage

X10 HW SAS3 controller, Storage Expandable



4U Storage

X10 SAS3HW/IT mode controller, Storage Expandable



MODEL	SSG-6048R-E1CR24N	SSG-6048R-E1CR24H SSG-6048R-E1CR24L
Processor Support	Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s	Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s
Key Applications	- Corporate Database - Data Center - Database Processing & Storage - Enterprise Server - HPC - iSCSI SAN	- Corporate Database - Data Center - Database Processing & Storage - Enterprise Server - HPC - iSCSI SAN
Outstanding Features	- Broadcom 3108 SAS3 HW RAID controller 24x 3.5" Hot-swap SAS3 bays 145W CPU support 24 DIMM slots 4x 10G BaseT - Dual JBOD Expansion Ports 920W Platinum Level redundant high-efficiency power supplies	24x 3.5" Hot-swap SAS3 bays 145W CPU support 16 DIMM slots - Dual 10G BaseT - Dual JBOD Expansion Ports 920W Platinum Level redundant high-efficiency power supplies
Serverboard	SUPER [®] X10DRi-T4+	SUPER [®] X10DRH-iT
Chipset	Intel® C612 chipset	Intel® C612 chipset
System Memory (Max.)*	Up to 3TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 24 DIMM slots	Up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots
Expansion Slots	2 PCI-E 3.0 x16, 3 PCI-E 3.0 x8, 1 PCI-E 3.0 x4 (in x8); Slot 3 & 4 occupied by controller and JBOD Expansion Port	1 PCI-E 3.0 x16, 6 PCI-E 3.0 x8; Slot 1 & 2 occupied by controller and JBOD Expansion Port
Onboard Storage Controller	Broadcom 3108 SAS3 HW RAID controller	-E1CR24H: Broadcom 3108 SAS3 HW RAID controller; -E1CR24L: Broadcom 3008 SAS3 HBA controller
Connectivity	Quad LAN with Intel® X540 10GBase-T Ethernet Controller	Dual LAN with 10GBase-T with Intel® X540 10GbE Controller
VGA/Audio	AST2400 VGA	AST2400 VGA
Management	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog
Drive Bays	24x 3.5" hot-swap SAS3/SATA3 drive bay, 2x 2.5" optional rear hot-swap drive bay	24x 3.5" hot-swap SAS3/SATA3 drive bay; 2x 2.5" optional rear hot-swap drive bay
Peripheral Bays	N/A	N/A
Power Supply	920W Redundant Platinum Level high-efficiency power supplies with I ² C & PMBus	920W Redundant Platinum Level high-efficiency power supplies with I ² C & PMBus
Cooling System	3x 8cm hot-swap redundant PWM cooling fans. 2x 80mm rear hot-swap exhaust PWM fan	3x 8cm hot-swap redundant PWM cooling fans. 2x 80mm rear hot-swap exhaust PWM fan
Form Factor	4U Rackmount 437 x 178 x 673mm (17.2"x7"x26.5")	4U Rackmount 437 x 178 x 673mm (17.2"x7"x26.5")

* Please check with your Supermicro sales representative and website for compatibility and configuration details



4U Storage

X10 HW SAS3 controller, Storage Expandable



4U Storage

X10 SAS3 IT controller, Storage Expandable



4U Storage

X10 HW SAS3 controller, Storage Expandable



MODEL	SSG-6048R-E1CR36N	SSG-6048R-E1CR36L	SSG-6048R-E1CR36H
Processor Support	Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s		
Key Applications	- Corporate Database - Data Center - Database Processing & Storage - Enterprise Server - HPC - iSCSI SAN		
Outstanding Features	- Broadcom 3108 SAS3 HW RAID controller 145W CPU support 24 DIMM slots 36x 3.5" Hot-swap SAS3 bays - Dual JBOD Expansion Ports 4x 10GBase-T Ports 1280W Platinum Level redundant high-efficiency power supplies	- Broadcom 3008 SAS3 HBA controller 1280W Platinum Level redundant high-efficiency power supplies 145W CPU support 36x 3.5" Hot-swap SAS3 bays - Dual JBOD Expansion Ports - Dual 10G BaseT 16 DIMM slots	- Broadcom 3108 SAS3 HW RAID controller 1280W Platinum Level redundant high-efficiency power supplies 145W CPU support 36x 3.5" Hot-swap SAS3 bays - Dual JBOD Expansion Ports - Dual 10G BaseT 16 DIMM slots
Serverboard	SUPER●* X10DRi-T4+	SUPER●* X10DRH-iT	SUPER●* X10DRH-iT
Chipset	Intel® C612 chipset	Intel® C612 chipset	Intel® C612 chipset
System Memory (Max.)*	Up to 3TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 24 DIMM slots	Up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots	Up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots
Expansion Slots	2 PCI-E 3.0 x16, 3 PCI-E 3.0 x8, 1 PCI-E 3.0 x4 (in x8) Slot 3 & 4 occupied by controller and JBOD Expansion Port	1 PCI-E 3.0 x16 6 PCI-E 3.0 x8 Slot 1 & 2 occupied by controller and JBOD Expansion Port	1 PCI-E 3.0 x16 6 PCI-E 3.0 x8 Slot 1 & 2 occupied by controller and JBOD Expansion Port
Onboard Storage Controller	Broadcom 3108 SAS3 HW RAID controller	Broadcom 3008 SAS3 HBA controller	Broadcom 3108 SAS3 HW RAID controller
Connectivity	Quad LAN with Intel® X540 10GBase-T Ethernet Controller	Dual LAN with 10GBase-T with Intel® X540 10GbE Controller	Dual LAN with 10GBase-T with Intel® X540 10GbE Controller
VGA/Audio	AST2400 VGA	AST2400 VGA	AST2400 VGA
Management	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog
Drive Bays	36x 3.5" hot-swap SAS3/SATA3 drive bay; 4x 2.5" internal fixed drive bay	36x 3.5" hot-swap SAS3/SATA3 drive bays; 2x 2.5" optional rear hot-swap drive bays; 4x 2.5" internal fixed drive bays; Optional 4x NVMe hybrid drive bay support (32x 3.5" + 4x NVMe)	36x 3.5" hot-swap SAS3/SATA3 drive bays; 2x 2.5" optional rear hot-swap drive bays; 4x 2.5" internal fixed drive bays; Optional 4x NVMe hybrid drive bay support (32x 3.5" + 4x NVMe)
Peripheral Bays	N/A	N/A	N/A
Power Supply	1280W Redundant Platinum Level high-efficiency power supplies with iC & PMBus	1280W Redundant Platinum Level high-efficiency power supplies with iC & PMBus	1280W Redundant Platinum Level high-efficiency power supplies with iC & PMBus
Cooling System	7x 8cm high-performance PWM fans, air shroud	7x 8cm high-performance PWM fans, air shroud	7x 8cm high-performance PWM fans, air shroud
Form Factor	4U Rackmount 437 x 178 x 699mm (17.2" x 7" x 27.5")	4U Rackmount 437 x 178 x 699mm (17.2" x 7" x 27.5")	4U Rackmount 437 x 178 x 699mm (17.2" x 7" x 27.5")

* Please check with your Supermicro sales representative and website for compatibility and configuration details



4U UP Storage

SAS 3.0, 36x 3.5" hot-swap HDDs



4U Storage

High Availability Storage Platform



MODEL	SSG-5048R-E1CR36L	SSG-6048R-DE2CR24L
Processor Support	Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s	Redundant dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s
Key Applications	- Connectivity/Storage Computer Nodes - Database Processing & Storage	High Availability Storage Appliance Platform
Outstanding Features	- Broadcom 3008 SAS3 HBA controller onboard - Remote management via dedicated IPMI BMC 36x 3.5" Hot-swap SAS3 bays - External port for JBOD connect	- Redundant DP SBB supporting shared 24x 3.5" HDD - Intel® X540 Dual port 10GBase-T - Dual JBOD expansion ports per node - NV-DIMM support - Up to 3 add-on cards per node - Titanium Level power supplies
Serverboard	SUPER [®] X10SRH-CLN4F	Redundant SUPER [®] X10DRS-4U
Chipset	Intel® C612 Express chipset	Redundant Intel® C612 chipset
System Memory (Max.)*	Up to 1TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 8 DIMM slots	Redundant up to 1TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 8 DIMM slots
Expansion Slots	4x PCI-E 3.0 (x8/4, x16/8, x8) + 2x PCI-E 2.0 (x8/4, x4/2)	Redundant 3 PCI-E 3.0 x8 (1x HHHL, 2x LPHL) expansion slots per controller
Onboard Storage Controller	Broadcom 3008 SAS3 HBA controller onboard	Redundant Broadcom 3008 SAS controller
Connectivity	4x GbE port, 1x dedicated IPMI port	Redundant dual LAN with 10GBase-T with Intel® X540 10GbE Controller per node; 100M private Ethernet between controller nodes
VGA/Audio	AST2400 VGA	Redundant AST2400 VGA
Management	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog	Redundant IPMI 2.0 + KVM with dedicated LAN
Drive Bays	36x 3.5" Hot-swap SAS3 bays; 2x 2.5" optional rear hot-swap drive bays	Shared 24x 3.5" hot-swap SAS drive bay with SES2
Peripheral Bays	N/A	N/A
Power Supply	1280W Redundant Platinum Level high-efficiency power supplies with i°C & PMBus	Redundant 1600W Titanium Level high-efficiency power supplies with i°C & PMBus
Cooling System	7x 80mm middle cooling fans	Redundant 2x 4cm PWM cooling fans and 4x 8cm system PWM cooling fans
Form Factor	4U Rackmount 437 x 178 x 699mm (17.2" x 7" x 27.5")	4U Rackmount 437 x 178 x 648mm (17.2"x7"x25.5")

* Please check with your Supermicro sales representative and website for compatibility and configuration details



Mainstream

4U Standalone/Rackmount, 16 DIMMs



Mainstream

4U Standalone/Rackmount, 16 DIMMs



Mainstream

4U Standalone/Rackmount/SAS3, 7 PCI-E 3.0



MODEL	SYS-7048R-TR	SYS-7048R-TRT	SYS-7048R-C1R
Processor Support	Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s	Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s	Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s
Key Applications	- Virtualization - Powerful multi tasking workstation (financial analysis, digital video editing, engineering design, scientific computing)	- Virtualization - Powerful multi tasking workstation (financial analysis, digital video editing, engineering design, scientific computing)	- Big Data Analytics - Compute Intensive Storage Environments - DataCenter Applications - Simulation & Automation
Outstanding Features	16 DIMM slots - Redundant 920W Platinum Level high-efficiency power supplies - IPMI 2.0 + KVM with dedicated LAN 8x 3.5" hot-swap SATA3 drive bays 2 SATA DOM support with built-in power	16 DIMM slots - Redundant 920W Platinum Level high-efficiency power supplies - IPMI 2.0 + KVM with dedicated LAN 8x 3.5" hot-swap SATA3 drive bays 2 SATA DOM support with built-in power	2 SATA DOM support with embedded power 16 DIMM slots 8x 3.5" SATA3/8x 2.5" SAS3 hot-swap drive bays - Redundant 920W Platinum Level high-efficiency power supplies - Independent power & cooling control - SATA 3.0 (6Gbps) support - Supports up to 7 expansion cards
Serverboard	SUPER [®] X10DRi	SUPER [®] X10DRi-T	SUPER [®] X10DRH-C
Chipset	Intel® C612 Chipset	Intel® C612 Chipset	Intel® C612 Chipset
System Memory (Max.)*	Up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots	Up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots	Up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots
Expansion Slots	3 PCI-E 3.0 x16 3 PCI-E 3.0 x8	3 PCI-E 3.0 x16 3 PCI-E 3.0 x8	FH, FL support for 1 PCI-E 3.0 x16, 6 PCI-E 3.0 x8 add on cards
Onboard Storage Controller	Intel® C612 controller for 8 SATA3 (6Gbps) ports; RAID 0,1,5,10	Intel® C612 controller for 8 SATA3 (6Gbps) ports; RAID 0,1,5,10	Intel® C612 controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10; SAS3 Broadcom 3108 HW with 2G Cache controller for 8 SAS3 (12Gbps) ports; RAID 0,1,5,6,10,50,60
Connectivity	Dual LAN with Intel® i350 Gigabit Ethernet controller;	Dual 10Gb Ethernet LAN with Intel® X540 and 10GBase-T Connector	Dual LAN with Intel® i350 Gigabit Ethernet Controllers;
VGA/Audio	AST2400 VGA	AST2400 VGA	AST2400 VGA
Management	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog
Drive Bays	8x 3.5" hot-swap SATA3 drive bays	8x 3.5" hot-swap SATA3 drive bays	8x 2.5" 12Gbps SAS3 hot-swap drives in mobile rack and 8x 3.5" 6Gbps SATA3 hot-swap drives
Peripheral Bays	90-degree rotatable module: 2 x 5.25" drive bays & 1x 3.5" drive bays; Optional DVD drive	90-degree rotatable module: 2 x 5.25" drive bays & 1x 3.5" drive bays; Optional DVD drive	USB Support: Rear: 2x3.0 + 2x2.0, Front 2x2.0 front, 1x Type A, optional 1x 5.25" DVD-ROM drive
Power Supply	Redundant 920W Platinum Level high-efficiency power supplies with I²C & PMBus	Redundant 920W Platinum Level high-efficiency power supplies with I²C & PMBus	Redundant 920W Platinum Level high-efficiency power supplies with I²C & PMBus
Cooling System	3x 8cm hot-swap cooling fans and 2 x 8cm exhaust fans with air shroud with optimal fan speed control	3x 8cm hot-swap cooling fans and 2 x 8cm exhaust fans with air shroud with optimal fan speed control	3x 8cm hot-swap redundant PWM cooling fans; 2x 2x 8cm hot-swap exhaust fans air shroud
Form Factor	Tower/4U Rackmount 453 x 178 x 648mm (17.8" x 7" x 25.5")	Tower/4U Rackmount 453 x 178 x 648mm (17.8" x 7" x 25.5")	Tower/4U Rackmount 437 x 178 x 647mm (17.2" x 7" x 25.5")

* Please check with your Supermicro sales representative and website for compatibility and configuration details

Mainstream

4U Standalone/Rackmount /SAS3, 7 PCI-E 3.0

Mainstream

4U Standalone/Rackmount /SAS3, 24 DIMMs, Quad LAN

Mainstream

4U Standalone/Rackmount /SAS3, 24 DIMMs, Quad LAN



MODEL	SYS-7048R-C1RT	SYS-7048R-C1R4+	SYS-7048R-C1RT4+
Processor Support	Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s		
Key Applications	• Big Data Analytics • Compute Intensive Storage Environments • DataCenter Applications • Simulation & Automation		
Outstanding Features	• 2 SATA DOM support with embedded power • 16 DIMM slots • 8x 3.5" SATA3/8x 2.5" SAS3 hot-swap drive bays • Redundant 920W Platinum Level high-efficiency • Independent power & cooling control • SATA 3.0 (6Gbps) support • Supports up to 7 expansion cards	• 2 SATA DOM support with embedded power • 24 DIMM slots • 8x 2.5" SAS/8x 3.5" SATA hot-swap drive bays • Redundant 920W Platinum Level power • Up to 6 add-on cards	• 2 SATA DOM support with embedded power • 24 DIMM slots • 8x 2.5" SAS/8x 3.5" SATA hot-swap drive bays • Redundant 1000W Titanium Level power • Up to 6 add-on cards
Serverboard	SUPER● X10DRH-CT	SUPER● X10DRC-LN4+	SUPER● X10DRC-T4+
Chipset	Intel® C612 Chipset	Intel® C612 Chipset	Intel® C612 Chipset
System Memory (Max.)*	Up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots	Up to 3TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 24 DIMM slots	Up to 3TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 24 DIMM slots
Expansion Slots	FH, FL support for 1 PCI-E 3.0 x16, 6 PCI-E 3.0 x8 add on cards	FH/FL support for 2 PCI-E 3.0 x16; 3 PCI-E 3.0 x8; 1 PCI-E 2.0 x4 (in x8 slot) add on cards	FH/FL support for 2 PCI-E 3.0 x16; 3 PCI-E 3.0 x8; 1 PCI-E 2.0 x4 (in x8 slot) add on cards
Onboard Storage Controller	Intel® C612 controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10; SAS3 Broadcom 3108 HW with 2G Cache controller for 8 SAS3 (12Gbps) ports; RAID 0,1,5,6,10,50,60	Intel® C612 controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10; SAS3 Broadcom 3108 HW with 2G Cache controller for 8 SAS3 (12Gbps) ports; RAID 0,1,5,6,10,50,60	Intel® C612 controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10; SAS3 Broadcom 3108 HW with 2G Cache controller for 8 SAS3 (12Gbps) ports; RAID 0,1,5,6,10,50,60
Connectivity	Dual 10Gb Ethernet LAN with Intel® X540 and 10GBase-T Connector	Quad LAN with Intel® i350 Gigabit Ethernet Controllers;	Quad 10Gb Ethernet LAN with Intel® X540 and 10GBase-T Connector
VGA/Audio	AST2400 VGA	AST2400 VGA	AST2400 VGA
Management	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog
Drive Bays	8x 2.5" 12Gbps SAS3 hot-swap drives in mobile rack and 8x 3.5" 6Gbps SATA3 hot-swap drives	8x 2.5" 12Gbps SAS3 hot-swap drives in mobile rack and 8x 3.5" 6Gbps SATA3 hot-swap drives (Total 16x hot-swap drive bays)	8x 2.5" 12Gbps SAS3 hot-swap drives in mobile rack and 8x 3.5" 6Gbps SATA3 hot-swap drives (Total 16x hot-swap drive bays)
Peripheral Bays	USB Support: Rear: 2x3.0 + 2x2.0, Front 2x2.0 front, 1x Type A, optional 1x 5.25" DVD-ROM drive	USB Support: Rear: 2x3.0 + 2x2.0, Front 2x2.0 front, 1x Type A, optional 1x 5.25" DVD-ROM drive	USB Support: Rear: 2x3.0 + 2x2.0, Front 2x2.0 front, 1x Type A, optional 1x 5.25" DVD-ROM drive
Power Supply	Redundant 920W Platinum Level high-efficiency power supplies with iC & PMBus	C1R4+: Redundant 920W Platinum Level high-efficiency power supplies with iC & PMBus C1RT4+: Redundant 1000W Titanium Level high-efficiency power supplies with iC & PMBus	C1R4+: Redundant 920W Platinum Level high-efficiency power supplies with iC & PMBus C1RT4+: Redundant 1000W Titanium Level high-efficiency power supplies with iC & PMBus
Cooling System	3x 8cm hot-swap redundant PWM cooling fans; 2x 2x 8cm hot-swap exhaust fans air shroud	3x 8cm hot-swap cooling fans and 2 x 8cm exhaust fans with air shroud with optimal fan speed control	3x 8cm hot-swap cooling fans and 2 x 8cm exhaust fans with air shroud with optimal fan speed control
Form Factor	Tower/4U Rackmount 437 x 178 x 647mm (17.2" x 7" x 25.5")	Tower/4U Rackmount 452 x 178 x 648mm (17.8" x 7" x 25.5")	Tower/4U Rackmount 452 x 178 x 648mm (17.8" x 7" x 25.5")

* Please check with your Supermicro sales representative and website for compatibility and configuration details



2U Storage

SBB JBOD, SBB Storage



3U Storage

SBB JBOD, SBB Storage



4U Storage

SBB JBOD, SBB Storage



MODEL	SSG-927R-E2CJB	SSG-937R-E2CJB	SSG-947-E2CJB
Processor Support	N/A (please refer to Server Model)	N/A (please refer to Server Model)	N/A (please refer to Server Model)
Key Applications	High Availability Storage Appliance Platform	High Availability Storage Appliance Platform	High Availability Storage Appliance Platform
Outstanding Features	- Redundant Hot-Swappable Expander Trays 4x SAS 3.0 IO ports 1200W Titanium Level high-efficiency power supply - IPMI management with dedicated LAN	- Redundant hot-swappable expander trays 4x SAS 3.0 IO ports 1200W Titanium Level high-efficiency power supply - IPMI management with dedicated LAN	- Redundant hot-swappable expander trays 4x SAS 3.0 IO ports 1200W Titanium Level high-efficiency power supply - IPMI management with dedicated LAN
Serverboard	N/A (please refer to Server Model)	N/A (please refer to Server Model)	N/A (please refer to Server Model)
Chipset	N/A (please refer to Server Model)	N/A (please refer to Server Model)	N/A (please refer to Server Model)
System Memory (Max.)*	N/A (please refer to Server Model)	N/A (please refer to Server Model)	N/A (please refer to Server Model)
Expansion Slots	N/A (please refer to Server Model)	N/A (please refer to Server Model)	N/A (please refer to Server Model)
Onboard Storage Controller	N/A (please refer to Server Model)	N/A (please refer to Server Model)	N/A (please refer to Server Model)
Connectivity	4x SAS 3.0 IO ports	4x SAS 3.0 IO ports	4x SAS 3.0 IO ports
VGA/Audio	N/A (please refer to Server Model)	N/A (please refer to Server Model)	N/A (please refer to Server Model)
Management	IPMI 2.0 with dedicated LAN	IPMI 2.0 with dedicated LAN	IPMI 2.0 with dedicated LAN
Drive Bays	24x 2.5" Drive bays	16x 3.5" hot-swap SAS drive bays	24x 3.5" hot-swap SAS drive bays
Peripheral Bays	N/A (please refer to Server Model)	N/A (please refer to Server Model)	N/A (please refer to Server Model)
Power Supply	Redundant 1200W Titanium Level high-efficiency power supplies with iC and PMBus	Redundant 1200W Platinum Level high-efficiency power supplies with iC & PMBus	Redundant 1200W Platinum Level high-efficiency power supplies
Cooling System	8x 4cm PWM FANS	12x 4cm PWM cooling fans	4x 40mm Fans, 4x 80mm Fans
Form Factor	2U Rackmount 437 x 89 x 622.3mm (17.2" x 3.5" x 24.5")	3U Rackmount 437 x 132 x 647mm (17.2" x 5.2" x 25.5")	4U Rackmount 437 x 178 x 647mm (17.2" x 7" x 25.5")

* Please check with your Supermicro sales representative and website for compatibility and configuration details



4U JBOD Storage



4U JBOD Storage



4U JBOD Storage



MODEL	CSE-946ED-R2KJBOD	CSE-847DE1C-R2K04JBOD CSE-847DE2C-R2K04JBOD	CSE-946SE1C-R1K66JBOD CSE-946SE2C-R1K66JBOD
Processor Support	N/A (please refer to Server Model)	N/A (please refer to Server Model)	N/A (please refer to Server Model)
Key Applications	Extreme High Density and High Capacity Dual-path Storage Enclosure	Cloud backup, data Replication or High density Archive Storage Applications	Cloud backup, data Replication or High density Archive Storage Applications
Outstanding Features	- Support 90x 3.5" or 2.5" Top Loading SAS3 12Gbps Hot-swappable HDDs - Hot-swappable Expanders with redundant BMC for Remote System Power on/off and monitoring - Hot-swappable Tool-less Modular Design for Easy Service and Easy Maintenance - High Performance up to 20+ Gbps data transfer rate - Flexible to configure up to 4 Hosts HDD Zoning and individual HDD power cycling - Slide Rails and Cable Management Arm included	90x 3.5" hot-swappable HDDs in 45 drive bays - Dual/Single Expander Board and Front/Rear Backplane Boards support SAS3/2 or SATA3 HDDs with 12Gbps throughput 8x Mini-SAS HD ports for Internal / External Cascading Expander Combination for high performance, high availability or high redundancy requirements - Support NTP for time synchronization & RTC battery backup	60x 3.5" Top Loading SAS3/SATA3 12Gb/s Hot Swapping HDD/SSD Bays - Dual/Single Expander Backplane Board(s) support SAS3/2 HDDs with 12Gb/s throughput 8x Mini-SAS HD ports for Internal / External Cascading Expander Combination for high performance, high availability or high redundancy requirements - Cable Management Arm included - Support front LCD panel for system status & error info (Option)
Serverboard	N/A (please refer to Server Model)	N/A (please refer to Server Model)	N/A (please refer to Server Model)
Chipset	N/A (please refer to Server Model)	N/A (please refer to Server Model)	N/A (please refer to Server Model)
System Memory (Max.)*	N/A (please refer to Server Model)	N/A (please refer to Server Model)	N/A (please refer to Server Model)
Expansion Slots	N/A (please refer to Server Model)	N/A (please refer to Server Model)	N/A (please refer to Server Model)
Onboard Storage Controller	Dual Hot-swappable SAS3 expander w/ mini SAS HD connectors	Dual/Single SAS3 expander backplane w/ miniSAS HD connectors	Dual/Single Expander Backplane Board(s) support SAS3/2 HDDs with 12Gb/s throughput
Connectivity	Redundant IPMI 2.0 with dedicated LAN port	IPMI 2.0 with dedicated LAN port	IPMI 2.0 with dedicated LAN port
VGA/Audio	90x 3.5"/2.5" hot-swap SAS drive bay with SES3	90x 3.5" HDDs in 45x Hot-swap Drive Bays (2x HDD per bay)	60x 3.5"/2.5" Top-Loading SAS3 Hot-Swap Drive Bays
Management	N/A (please refer to Server Model)	N/A (please refer to Server Model)	N/A (please refer to Server Model)
Drive Bays	4x 1U 1000W Redundant Titanium Level Power Supply	2000W (1+1) Redundant Titanium Level Power Supply	1600W (1+1) Redundant Platinum Level High-efficiency Power Supplies
Peripheral Bays	5x 80mm heavy duty fans with PWM fan speed control	7x 92mm high efficient hot-swappable fans for best system cooling	5x 80mm Hot-swap Fans
Power Supply	4U Rackmount 447 x 178 x 906mm (17.6" x 7" x 35.66")	4U Rackmount 447 x 178 x 889mm (17.6" x 7" x 35")	4U Rackmount 447 x 178 x 767mm (17.6" x 7" x 30.2")
Cooling System	8x 4cm PWM FANS	12x 4cm PWM cooling fans	4x 40mm Fans, 4x 80mm Fans
Form Factor	2U Rackmount 437 x 89 x 622.3mm (17.2" x 3.5" x 24.5")	3U Rackmount 437 x 132 x 647mm (17.2" x 5.2" x 25.5")	4U Rackmount 437 x 178 x 647mm (17.2" x 7" x 25.5")

* Please check with your Supermicro sales representative and website for compatibility and configuration details



4U JBOD Storage



Front View



Rear View

4U JBOD Storage



Front View



Rear View

4U JBOD Storage



Front View - 48x 2.5" HDDs



Rear View - 24x 2.5" HDDs

MODEL	CSE-847E1C-R1K28JBOD CSE-847E2C-R1K28JBOD	CSE-846BE1C-R1K03JBOD CSE-846BE2C-R1K03JBOD	CSE-417BE1C-R1K23JBOD CSE-417BE2C-R1K23JBOD
Processor Support	N/A (please refer to Server Model)	N/A (please refer to Server Model)	N/A (please refer to Server Model)
Key Applications	Cloud backup, data Replication or High density Archive Storage Applications	Cloud Backup, Data Replication, or High Density Archive Storage Applications	Cloud Backup, Data Replication, or High Density Archive Storage Applications
Outstanding Features	44x (24 front + 20 rear) 3.5" hot-swap SAS3 HDD bays with Single/Dual SAS3 expanders w/ MiniSAS HD connectors 1280W Platinum Level redundant power supplies with PMBus function - Dual/Single SAS3 (12 Gbps) expander backplane; E2C: Dual SAS3 (12 Gbps) expander backplane;	4U Storage JBOD Chassis with capacity 24 x 3.5" hot-swappable HDDs bays - Single/Dual Expanders Backplane Boards support SAS3/2 or SATA3 HDDs with 12Gb/s throughput 8x (Dual Expander) / 4x (Single Expander) Mini-SAS HD ports for Internal / External Cascading Expander Combination for high performance, high availability or high redundancy requirements	4U JBOD storage chassis with capacity 72x (48 front + 24 rear) 2.5" hot-swap HDD bays - SAS3 (12Gbps) dual/single expander backplanes - Redundant 1200W Titanium Level (1+1) power supplies with PMBus - Optimized thermal solution with 100% redundant cooling design
Serverboard	N/A (please refer to Server Model)	N/A (please refer to Server Model)	N/A (please refer to Server Model)
Chipset	N/A (please refer to Server Model)	N/A (please refer to Server Model)	N/A (please refer to Server Model)
System Memory (Max.)*	N/A (please refer to Server Model)	N/A (please refer to Server Model)	N/A (please refer to Server Model)
Expansion Slots	N/A (please refer to Server Model)	N/A (please refer to Server Model)	N/A (please refer to Server Model)
Onboard Storage Controller	Dual/Single SAS3 (12Gbps) expanders w/ mini SAS HD connectors	Dual/Single SAS3 (12Gbps) expanders w/ mini SAS HD connectors	Dual/Single SAS3 (12Gbps) expander backplanes
Connectivity	IPMI 2.0 with dedicated LAN port	IPMI 2.0 with dedicated LAN port	IPMI 2.0 with dedicated LAN port
VGA/Audio	44x (24 front + 20 rear) 3.5" hot-swap SAS3 drive bays w/SES3	24x 3.5" hot-swap SAS3 drive bays w/ SES-3	72x (48 front + 24 rear) 2.5" hot-swap HDD bays
Management	N/A (please refer to Server Model)	N/A (please refer to Server Model)	N/A (please refer to Server Model)
Drive Bays	Redundant (1+1) 1280W Platinum Level Digital power supply with PMBus	Redundant (1+1) 1280W Platinum Level Digital power supply with PMBus	Redundant 1200W Titanium Level (1+1) power supplies with PMBus
Peripheral Bays	7x 80mm Hot-swap Fans	3x 80mm hot-swap redundant PWM cooling fans 2x 80mm hot-swap exhaust fans & air shroud	7x 80mm hot-swap redundant cooling fans
Power Supply	4U Rackmount 447 x 178 x 699mm (17.6" x 7" x 27.5")	4U Rackmount 447 x 178 x 660mm (17.6" x 7" x 26")	4U Rackmount 437 x 178 x 699mm (17.2" x 7" x 27.5")
Cooling System	8x 4cm PWM FANS	12x 4cm PWM cooling fans	4x 40mm Fans, 4x 80mm Fans
Form Factor	2U Rackmount 437 x 89 x 622.3mm (17.2" x 3.5" x 24.5")	3U Rackmount 437 x 132 x 647mm (17.2" x 5.2" x 25.5")	4U Rackmount 437 x 178 x 647mm (17.2" x 7" x 25.5")

* Please check with your Supermicro sales representative and website for compatibility and configuration details



2U JBOD Storage



2U JBOD Storage



2U JBOD Storage



MODEL	CSE-826SE1C-R1K02JBOD	CSE-826BE1C-R741JBOD CSE-826BE2C-R741JBOD	CSE-216BE1C-R741JBOD CSE-216BE2C-R741JBOD
Processor Support	N/A (please refer to Server Model)	N/A (please refer to Server Model)	N/A (please refer to Server Model)
Key Applications	Cloud Backup, Data Replication, or High Density Archive Storage Applications	Cloud Backup, Data Replication, or High Density Archive Storage Applications	Cloud Backup, Data Replication, or High Density Archive Storage Applications
Outstanding Features	24x (12 front + 12 middle) 3.5" hot-swap SAS/ SATA drive bays supporting SAS3/2 or SATA3 HDDs with 12Gbps throughput - Redundant 1000W Titanium Level (1+1) power supplies with PMBus 5x 8cm (middle) hot-swap redundant cooling fans - Single SAS3 (12Gbps) expander backplane 4x External mini SAS HD - Cable Management Arm included	12x 3.5" hot-swappable HDDs bays - Dual/Single Expander Backplane Boards support SAS3/2 or SATA3 HDDs with 12Gb/s throughput 8x (Dual Expander) / 4x (Single Expander) Mini-SAS HD ports for Internal / External Cascading Expander Combination for high performance, high availability or high redundancy requirements	24x 2.5" hot-swappable HDDs bays - Dual/Single Expander Backplane Boards support SAS3/2 or SATA3 HDDs with 12Gb/s throughput 8x (Dual Expander) / 4x (Single Expander) Mini-SAS HD ports for Internal / External Cascading Expander Combination for high performance, high availability or high redundancy requirements
Serverboard	N/A (please refer to Server Model)	N/A (please refer to Server Model)	N/A (please refer to Server Model)
Chipset	N/A (please refer to Server Model)	N/A (please refer to Server Model)	N/A (please refer to Server Model)
System Memory (Max.)*	N/A (please refer to Server Model)	N/A (please refer to Server Model)	N/A (please refer to Server Model)
Expansion Slots	N/A (please refer to Server Model)	N/A (please refer to Server Model)	N/A (please refer to Server Model)
Onboard Storage Controller	Single SAS3 (12Gbps) expander backplane w/ mini SAS HD connectors	Dual/Single SAS3 (12Gbps) expanders w/ mini SAS HD connectors	Dual/Single SAS3 (12Gbps) expanders w/ mini SAS HD connectors
Connectivity	IPMI 2.0 with dedicated LAN port	IPMI 2.0 with dedicated LAN port	IPMI 2.0 with dedicated LAN port
VGA/Audio	24x (12 front + 12 middle) 3.5" hot-swap SAS3/ SATA3 (12Gbps) Hot-Swap Drive Bays	12x 3.5" SAS3 (12Gbps) Hot-Swap Drive Bays	24x 2.5" SAS3 (12Gbps) Hot-Swap Drive Bays
Management	N/A (please refer to Server Model)	N/A (please refer to Server Model)	N/A (please refer to Server Model)
Drive Bays	Redundant 1000W Titanium Level (1+1) power supplies with PMBus	Redundant 740W (1+1) 95% efficient Platinum Level power supplies	Redundant 740W (1+1) 95% efficient Platinum Level power supplies
Peripheral Bays	5x 80mm (middle) hot-swap redundant cooling fans	3x 80mm (middle) hot-swap redundant cooling fans	3x 80mm (middle) hot-swap redundant cooling fans
Power Supply	2U Rackmount 437 x 89 x 863mm (17.2" x 3.5" x 34")	2U Rackmount 437 x 89 x 647mm (17.2" x 3.5" x 25.5")	2U Rackmount 437 x 89 x 630mm (17.2" x 3.5" x 24.8")
Cooling System	8x 4cm PWM FANS	12x 4cm PWM cooling fans	4x 40mm Fans, 4x 80mm Fans
Form Factor	2U Rackmount 437 x 89 x 622.3mm (17.2" x 3.5" x 24.5")	3U Rackmount 437 x 132 x 647mm (17.2" x 5.2" x 25.5")	4U Rackmount 437 x 178 x 647mm (17.2" x 7" x 25.5")

* Please check with your Supermicro sales representative and website for compatibility and configuration details

BigTwin™ /TwinPro™ /Twin

NEW! Intel® Xeon® Scalable Processors Supported



- **A Full Range of Processors** Up to the highest performing 205 watt TDP CPUs
- **Maximum Memory** 3TB in 24 DIMMs per node
- **All-Flash NVMe** 24 NVMe or Hybrid NVMe/SAS3 drives
- **Double the I/O Capacity** Three PCI-E 3.0 x16 options per node

BigTwin™

Features:

- 4/2 hot swappable nodes in 2U
- 24 DIMMs per node
- **24 NVMe Support (-HNR)**
- 1 SIOM slot per node
- 2 low-profile PCI-E x16 slots per node
- Quad set of IPMI 2.0 + KVM with dedicated LAN
- Redundant 2600W/2200W High Efficiency (96%) Power Supplies



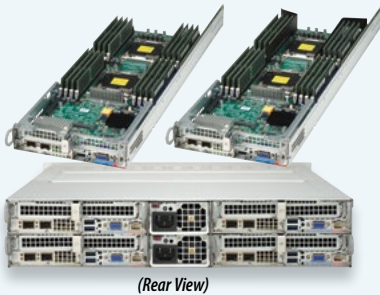
Front View



Rear View

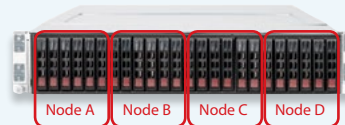
SYS-2029BT-HTN/HNR/HNCOR
SYS-2029BT-DNR/DNCOR

TwinPro²™ /SIOM

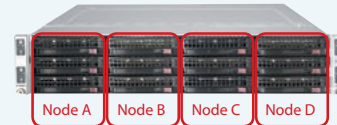


(Rear View)

SYS-2029TP-HTR/HC1R/HCOR
SYS-6029TP-HTR/HC1R/HCOR



SYS-2029TP-HTR/HC1R/HCOR
4 DP Nodes in 2U,
24x 2.5" SAS3/SATA3 drives



6028TP-H Series
4 DP Nodes in 2U,
12x 3.5" SAS3/SATA3 drives

INDUSTRY LEADING, NEXT GENERATION X11 TWIN ARCHITECTURE

The Supermicro Twin SuperServer® systems are a family of high-density 2U hot-plug node servers available with a variety of memory capacities, HDD technologies, PCI-E alternatives, networking capabilities, and GPU support options. Support for the latest Intel® Xeon® Processor Scalable Family enables a host benefits to each generation of the Twin architecture with up to: 3TB of DDR4-2666MHz ECC memory in 24 DIMM slots, flexible networking options of up to 100G, and integrated Ultra Path Interconnect technology for lower latency and extra bandwidth.

The BigTwin™ is the 5th generation of the breakthrough Twin architecture which extends the compute and storage capabilities of Supermicro's 2U TwinPro and 1U Twin family SuperServer systems. Offering up to 24 All-Flash NVMe or Hybrid HDDs, 2 low-profile PCI-E 3.0 x16 slots and 1 SIOM slot for maximum networking flexibility, the BigTwin is optimized for today's demanded IT requirements.

The Supermicro Twin Family represents a revolution in Green Computing designed to support customers' critical applications and also reduce Data Center TCO to help preserve the environment. Due to their shared components, the Twin Family improves cost-effectiveness and reliability over rackmount servers, while their modular architecture enables flexible configuration and easy maintenance.

Versatile configurations allow the Twin Servers to be optimized for many different environments including Enterprise, Data Center, Cloud Computing, HPC, Financial, Science and Engineering, File and Storage Servers.

X11 BigTwin

Quad DP Nodes, 24 NVMe Drive Bays

X11 BigTwin

Quad DP Nodes, 24 NVMe Drive Bays

X11 BigTwin

Quad DP Nodes, 24 NVMe Drive Bays



MODEL	SYS-2029BT-HTR	SYS-2029BT-HNR	SYS-2029BT-HNCOR
Processor Support	Intel® Xeon® Scalable processor with UPI up to 10.4 GT/s	Intel® Xeon® Scalable processor with UPI up to 10.4 GT/s	Intel® Xeon® Scalable processor with UPI up to 10.4 GT/s
Key Applications	- Hyperscale and Hyperconverged Solutions - Compute Intensive Application - Enterprise Server - Data Center - HPC	- Hyperscale and Hyperconverged Solutions - Compute Intensive Application - Enterprise Server - Data Center - HPC	- Hyperscale and Hyperconverged Solutions - Compute Intensive Application - Enterprise Server - Data Center - HPC
Outstanding Features	- NVMe Support 2 Low -profile PCI-E X16 slot 1 SIOM card support 24 DIMMs per node 4 Nodes in 2U	- NVMe Support 2 Low -profile PCI-E X16 slot 1 SIOM card support 24 DIMMs per node 4 Nodes in 2U	- NVMe Support 2 Low -profile PCI-E X16 slot 1 SIOM card support 24 DIMMs per node 4 Nodes in 2U
Serverboard	SUPER● X11DPT-B	SUPER● X11DPT-B	SUPER● X11DPT-B
Chipset	Intel® C621 Chipset	Intel® C621 Chipset	Intel® C621 Chipset
System Memory (Max.)*	Up to 3TB ECC 3DS LRDIMM, 768GB ECC RDIMM, DDR4 up to 2666MHz, in 24 DIMM slots per Node	Up to 3TB ECC 3DS LRDIMM, 768GB ECC RDIMM, DDR4 up to 2666MHz, in 24 DIMM slots per Node	Up to 3TB ECC 3DS LRDIMM, 768GB ECC RDIMM, DDR4 up to 2666MHz, in 24 DIMM slots per Node
Expansion Slots	2 PCI-E 3.0 x16 (LP) 1 SIOM card support Note: Must bundle with Network Card	2 PCI-E 3.0 x16 (LP), 1 SIOM card support Note: Must bundle with Network Card	2 PCI-E 3.0 x16 (LP), 1 SIOM card support Note: Must bundle with Network Card
Onboard Storage Controller	Intel C621 SATA (6 Gbps) controller; RAID 0,1,5,10	N/A (NVMe only)	Broadcom 3008 SAS3 (12Gbps) controller; IT mode
Connectivity	SIOM Networking AOC Matrix	SIOM Networking Card For Flexible Networking Options	SIOM Networking Card For Flexible Networking Options
VGA/Audio	1 VGA, 1 Aspeed AST2500 BMC;	Aspeed AST2500 BMC	Aspeed AST2500 BMC
Management	Intel® Node Manager; IPMI2.0; KVM with dedicated LAN; SPM; SSM; SUM; SuperDoctor® 5; Watchdog	Intel® Node Manager; IPMI2.0; KVM with dedicated LAN; SPM; SSM; SUM; SuperDoctor® 5; Watchdog;	Intel® Node Manager; IPMI2.0; KVM with dedicated LAN; SPM; SSM; SUM; SuperDoctor® 5; Watchdog
Drive Bays	6 Hot-swap 2.5" SATA drive bays per node	6 Hot-swap 2.5" NVMe drive bays per node	4 Hot-swap 2.5" NVMe/SAS drive bays + 2 Hot-swap 2.5" SAS drive bays per node
Peripheral Bays	N/A	N/A	N/A
Power Supply	Redundant 2200W Titanium Level high-efficiency power supplies with I2C&PMBus	Redundant 2200W Titanium Level high-efficiency power supplies with I2C&PMBus	Redundant 2200W Titanium Level high-efficiency power supplies with I2C&PMBus
Cooling System	4x 80mm heavy duty PWM fans with air shroud	4x 80mm heavy duty fans with PWM fan speed control;	4x 80mm heavy duty PWM fans with air shroud
Form Factor	2U (4-node) Rackmount	2U (4-node) Rackmount	2U (4-node) Rackmount

* Please check with your Supermicro sales representative and website for compatibility and configuration details

X11 TwinPro²[™]

Quad DP Nodes, 24x 2.5" Drive Bays

X11 TwinPro²[™]

Dual DP Nodes, 12x 3.5" Drive Bays



MODEL	SYS-2029TP-HTR/HC1R/HC0R	SYS-6029TP-HTR/HC1R/HC0R
Processor Support	Quad Intel® Xeon® Scalable processors with UPI up to 10.4 GT/s	Quad Intel® Xeon® Scalable processors with UPI up to 10.4 GT/s
Key Applications	• Compute Intensive Application • Data Center • Enterprise Server • Financial Analysis • HPC • Mission-Critical	• Compute Intensive Application • Data Center • Enterprise Server • Financial Analysis • HPC • Mission-Critical
Outstanding Features	• 2 Low-profile PCI-E slots • 1 SIOM card support • IPMI 2.0 + KVM with dedicated LAN • QUAD set of 6 hot-swap 2.5" SATA/SAS drive bays	• 2 Low-profile PCI-E slots • 1 SIOM card support • IPMI 2.0 + KVM with dedicated LAN • QUAD set of 6 hot-swap 2.5" SATA/SAS drive bays
Serverboard	SUPER [®] X11DPT-PS	SUPER [®] X11DPT-PS
Chipset	Intel® C620 chipset	Intel® C621 chipset
System Memory (Max.)*	Quad set of up to 2TB ECC LRDIMM, 512GB ECC RDIMM, DDR4-2666MHz in 16 DIMM slots.	Quad set of up to 2TB ECC LRDIMM, 512GB ECC RDIMM, DDR4-2666MHz in 16 DIMM slots.
Expansion Slots	Quad set of: 2x PCI-E 3.0 LP x16; 1x SIOM card support	Quad set of: 2x PCI-E 3.0 LP x16; 1x SIOM card support
Onboard Storage Controller	-HTR: Quad set of Intel® C620 controller for 6 SATA3 (6 Gbps) ports; RAID 0,1,5,10 -HC1R: Quad set of LSI 3108 HW RAID 12Gbps SAS 3.0 controller for RAID 0,1,5,6,10,50,60 w/optional SuperCap -HC0R: Quad set of LSI 3008 HW RAID 12Gbps SAS 3.0 controller for RAID 0,1,1E/10	-HTR: Quad set of Intel® C620 controller for 3 SATA3 (6 Gbps) ports; RAID 0,1,5 -HC1R: Quad set of LSI 3108 HW RAID 12Gbps SAS 3.0 controller for RAID 0,1,5,6 w/optional SuperCap -HC0R: Quad set of LSI 3008 HW RAID 12Gbps SAS 3.0 controller for RAID 0,1,1E/10
Connectivity	Quad set of single IPMI 2.0 + KVM with dedicated LAN only. Need to bundle with network card	Quad set of single IPMI 2.0 + KVM with dedicated LAN only. Need to bundle with network card
VGA/Audio	1 VGA, 1 Aspeed AST2500 BMC	1 VGA, 1 Aspeed AST2500 BMC
Management	Quad set of IPMI 2.0 + KVM with dedicated LAN, SuperDoctor®, Watch Dog	Quad set of IPMI 2.0 + KVM with dedicated LAN, SuperDoctor®, Watch Dog
Drive Bays	Quad set of 6x 2.5" hot-swap SATA/SAS3 drive bays	Quad set of 3x 3.5" hot-swap SATA/SAS3 drive bays
Peripheral Bays	N/A	
Power Supply	2000W/2200W Redundant Titanium Level high-efficiency Power Supplies with i°C & PMBus	2000W/2200W Redundant Titanium Level high-efficiency Power Supplies with i°C & PMBus
Cooling System	4x 8cm heavy duty PWM fans with air shroud and optimal fan speed control	4x 8cm heavy duty PWM fans with air shroud and optimal fan speed control
Form Factor	2U Rackmount 438 x 88 x 724mm (17.25" x 3.47" x 28.5")	2U Rackmount 438 x 88 x 774mm (17.25" x 3.47" x 30.5")

* Please check with your Supermicro sales representative and website for compatibility and configuration details

2U BigTwin™

4 hot swappable nodes in 2U, Redundant Titanium Level power supplies



Front View



Rear View

MODEL	SYS-2028BT-HNR+ SYS-2028BT-HTR+	SYS-2028BT-HNC1R+ SYS-2028BT-HNC0R+	SYS-6028BT-HNC0R+
Processor Support	Quad set of Dual Intel® Xeon® Processor E5-2600 v4 product family with QPI up to 9.6 GT/s	Quad set of Dual Intel® Xeon® Processor E5-2600 v4 product family with QPI up to 9.6 GT/s	Intel® Xeon® processor E5-2600 V3 Intel® Xeon® processor E5-2600 V4 with QPI up to 9.6GT/s † BIOS version 2.0 or above is required
Key Applications	• Compute Intensive Application • Data Center • Enterprise Server • Financial Analysis • HPC • Mission-critical applications	• Compute Intensive Application • Data Center • Enterprise Server • Financial Analysis • HPC • Mission-critical applications	• Hyperscale and Hyperconverged Solutions • Compute Intensive Application • Enterprise Server • Data Center • HPC
Outstanding Features	• 4 hot swappable nodes in 2U • 2 low profile PCI-E x16 slot • 24 DIMMs per node • 1 SIOM card support • 2 low-profile PCI-E x16 slots • 2200W High Efficiency (96%) Redundant Power Supplies • -HNR+: 24x NVMe Support	• 24x SAS3 Support (16 can be NVMe) • 4 hot swappable nodes in 2U • 2 low profile PCI-E x16 slot • 24 DIMMs per node • 1 SIOM card support • 2 low-profile PCI-E x16 slots • 2200W High Efficiency (96%) Redundant Power Supplies	• 2 M.2 SATA3 or NVMe support • 1 SATA DOM support • SAS3 and NVMe support • Broadcom 3008 controller onboard • 24 DIMMs per node • 2 PCI-E 3.0 (x16) Low Profile slots • 1 SIOM card support • 4 Nodes in 2U
Serverboard	Quad set SUPER● X10DRT-B+	Quad set SUPER● X10DRT-B+	SUPER X10DRT-B+
Chipset	Quad set Intel® C612 chipset	Quad set Intel® C612 chipset	Intel® C612 chipset
System Memory (Max.)*	Quad set up to 3TB ECC 3DS LRDIMM, 768GB ECC RDIMM 2400MHz, in 24 DIMM slots per Node	Quad set up to 3TB ECC 3DS LRDIMM, 768GB ECC RDIMM 2400MHz, in 24 DIMM slots per Node	Up to 3TB ECC 3DS LRDIMM, 768GB ECC RDIMM 2400MHz, in 24 DIMM slots per Node.
Expansion Slots	Quad set 2 PCI-E 3.0 x16 (LP) 1 SIOM card support Note: Must bundle with Network Card	Quad set 2 PCI-E 3.0 x16 (LP) 1 SIOM card support Note: Must bundle with Network Card	2 PCI-E 3.0 (X16) Low Profile slots 1SIOM card support Note: Must bundle with Network card.
Onboard Storage Controller	-HNR+: Quad set Intel C612 controller for M.2, NVMe from CPU -HTR+: Quad set Intel C612 controller for 6 SATA3 (6 Gbps) ports per node; RAID 0,1,5,10	Quad set Broadcom 3008 SAS controller for 6 SAS3 (12 Gbps) ports per node (4 can be NVMe)	SAS3 support via Broadcom 3008 ; IT mode
Connectivity	Quad set SIOM Networking AOC Matrix	Quad set SIOM Networking AOC Matrix	
VGA/Audio	Quad set Aspeed AST2400 BMC	Quad set Aspeed AST2400 BMC	Aspeed AST2400 BMC
Management	Quad set of IPMI 2.0 + KVM with dedicated LAN, SuperDoctor® 5, Watchdog	Quad set of IPMI 2.0 + KVM with dedicated LAN, SuperDoctor® 5, Watchdog	SIOM Networking AOC Matrix
Drive Bays	Quad set of 6x 2.5" hot-swap NVMe drive bays	Quad set of 6x 2.5" hot-swap SAS3/NVMe drive bays	
Peripheral Bays			
Power Supply	Redundant 2200W Titanium Level high-efficiency power supplies with I²C & PMbus	Redundant 2200W Titanium Level high-efficiency power supplies with I²C & PMbus	Redundant 2200W Titanium Level high-efficiency power supplies with 12C & PMbus
Cooling System	4x 8cm heavy duty PWM fans with air shroud	4x 8cm heavy duty PWM fans with air shroud	4x8cm heavy duty PWM fans with air shroud, N/A
Form Factor	2U (4-node) Rackmount	2U (4-node) Rackmount	2U (4-node) Rackmount

* Please check with your Supermicro sales representative and website for compatibility and configuration details

2 DP Nodes BigTwin™

2 hot swappable nodes in 2U, Redundant Titanium Level power supplies



Front View



Rear View

MODEL	SYS-2028BT-DNR+	SYS-2028BT-DNCOR+	SYS-6028BT-DNCOR+
Processor Support	Intel® Xeon® processor E5-2600 V3 Intel® Xeon® processor E5-2600 V4 with QPI up to 9.6GT/s † BIOS version 2.0 or above is required	Intel® Xeon® processor E5-2600 V3 Intel® Xeon® processor E5-2600 V4 with QPI up to 9.6GT/s † BIOS version 2.0 or above is required	Intel® Xeon® processor E5-2600 V3 Intel® Xeon® processor E5-2600 V4 with QPI up to 9.6GT/s † BIOS version 2.0 or above is required
Key Applications	- Hyperscale and Hyperconverged Solutions - Compute Intensive Application - Enterprise Server - Data Center - HPC	- Hyperscale and Hyperconverged Solutions - Compute Intensive Application - Enterprise Server - Data Center - HPC	- Hyperscale and Hyperconverged Solutions - Compute Intensive Application - Enterprise Server - Data Center - HPC
Outstanding Features	2 M.2 SATA3 or NVMe support 1 SATA DOM support 12 NVMe support 24 DIMMs per node 1 SIOM card support 2 Node in 2U	2 M.2 SATA3 or NVMe support 1 SATA DOM support - SAS3 and NVMe support - Broadcom 3216 on board 24 DIMMs per node 2 FH PCI-E x8, 1 LP PCI-Ex16 1 SIOM card support 2 Nodes in 2U	2 M.2 SATA3 or NVMe support 1 SATA DOM support - SAS3 and NVMe support - Broadcom 3216 on board 24 DIMMs per node 2 FH PCI-E x8, 1 LP PCI-Ex16 1 SIOM card support 2 Node in 2U
Serverboard	SUPER● X10DRT-B+	SUPER● X10DRT-B+	SUPER● X10DRT-B+
Chipset	Intel® C612 chipset	Intel® C612 chipset	Intel® C612 chipset
System Memory (Max.)*	Up to 3TB ECC 3DS LRDIMM, 768GB ECC RDIMM 2400MHz, in 24 DIMM slots per Node	Up to 3TB ECC 3DS LRDIMM, 768GB ECC RDIMM 2400MHz, in 24 DIMM slots per Node	Up to 3TB ECC 3DS LRDIMM, 768GB ECC RDIMM 2400MHz, in 24 DIMM slots per Node
Expansion Slots	2 PCI-E 3.0 x8 (FH, HL), 1 PCI-E 3.0 x16 (LP, HL) 1SIOM card support Note: Must bundle with Network card	2 PCI-E 3.0 x8 (FH, HL), 1 PCI-E 3.0 x16 (LP, HL) 1SIOM card support Note: Must bundle with Network card	2 PCI-E 3.0 x8 (FH, HL), 1 PCI-E 3.0 x16 (LP, HL) 1SIOM card support Note: Must bundle with Network card
Onboard Storage Controller		Broadcom 3216 support RAID 0,1,10 per Node	Broadcom 3216 support RAID 0,1,10 per Node
Connectivity	SIOM Networking AOC Matrix	SIOM Networking AOC Matrix	SIOM Networking AOC Matrix
VGA/Audio	Aspeed AST2400 BMC	Aspeed AST2400 BMC	Aspeed AST2400 BMC
Management	Quad set of IPMI2.0+KVM with dedicated LAN, Intel Node Manager, SUM, SPM, SSM, SuperDoctor 5, Watchdog	Quad set of IPMI2.0+KVM with dedicated LAN, Intel Node Manager, SUM, SPM, SSM, SuperDoctor 5, Watchdog	Quad set of IPMI2.0+KVM with dedicated LAN, Intel Node Manager, SUM, SPM, SSM, SuperDoctor 5, Watchdog
Drive Bays	12 Hot-swap 2.5" NVMe drive bays		6 x 3.5" hot-swap SAS drive bays or 3 x NVMe + 3 x 3.5" SAS drive bays
Peripheral Bays			
Power Supply	Redundant 2200W Titanium Level high-efficiency power supplies with 12C & PMbus	Redundant 2200W Titanium Level high-efficiency power supplies with 12C & PMbus	Redundant 2200W Titanium Level high-efficiency power supplies with 12C & PMbus
Cooling System	4x8cm heavy duty PWM fans with air shroud	4x8cm heavy duty PWM fans with air shroud, N/A	Redundant 2200W Titanium Level high-efficiency power supplies with 12C & PMbus
Form Factor	2U (2-node) Rackmount	2U (2-node) Rackmount	2U (2-node) Rackmount

* Please check with your Supermicro sales representative and website for compatibility and configuration details

1U TwinPro™

2 hot swappable nodes in 1U, Redundant Titanium Level power supplies



TwinPro™/Twin

MODEL	SYS-1028TP-DC0R SYS-1028TP-DC1R	SYS-1028TP-DC0TR SYS-1028TP-DC1TR	SYS-1028TP-DC0FR SYS-1028TP-DC1FR
Processor Support	Dual set of Dual Intel® Xeon® Processor E5-2600 v4/ v3 product families supported; QPI up to 9.6GT/s, CPU support up to 145W TDP		
Key Applications	- Mission-critical applications - High Availability Storage Appliance Platform		
Outstanding Features	2 hot swappable nodes in 1U - Broadcom 3108 SAS3 controller (DC1R) - Broadcom 3008 SAS3 controller (DC0R) 1x PCI-E 3.0 x16 Low-profile slot and 1x "0" slot - Intel® i350-AM2 Dual port GbE LAN 1000W Redundant Power Supplies		
Serverboard	SUPER● X10DRT-P	SUPER● X10DRT-PT	SUPER● X10DRT-PIBF
Chipset	Intel® C612 chipset		
System Memory (Max.)*	Dual set of up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots		
Expansion Slots	Dual set of Low-profile PCI-E x16 slot 1x "0" slot (-DC0R)	Dual set of Low-profile PCI-E x16 slot 1x "0" slot (-DC0TR)	Dual set of Low-profile PCI-E x16 slot 1x "0" slot (-DC0FR)
Onboard Storage Controller	-DC0R: Dual set of Broadcom 3008 SW RAID for 4 SAS3 (12 Gbps) ports; RAID 0,1,10; -DC1R: Dual set of Broadcom 3108 HW RAID for 4 SAS3 (12 Gbps) ports; RAID 0,1,5,6,10	-DC0TR: Dual set of Broadcom 3008 SW RAID for 4 SAS3 (12 Gbps) ports; RAID 0,1,10; -DC1TR: Dual set of Broadcom 3108 HW RAID for 4 SAS3 (12 Gbps) ports; RAID 0,1,5,6,10	-DC0FR: Dual set of Broadcom 3008 SW RAID for 4 SAS3 (12 Gbps) ports; RAID 0,1,10; -DC1FR: Dual set of Broadcom 3108 HW RAID for 4 SAS3 (12 Gbps) ports; RAID 0,1,5,6,10
Connectivity	Dual set of Dual 1GbE ports with Intel® i350 Ethernet controller	Dual set of Dual 10GBase-T ports with Intel® X540 Ethernet controller	Dual set of Dual 1GbE ports with Intel® i350 Ethernet controller, and; Dual set of Single FDR infiniband port with Mellanox Connect-X3
VGA/Audio	Dual set of Aspeed AST2400 BMC		
Management	Dual set of IPMI 2.0 + KVM with dedicated LAN, SuperDoctor® 5, Watchdog		
Drive Bays	Dual set of 4x 2.5" hot-swap SAS3/SATA3 drive bays		
Peripheral Bays	1000W Redundant Titanium Level high-efficiency power supplies with i°C & PMBus		
Power Supply	Dual set of 3x heavy duty counter rotating fans with air shroud and optimal fan speed control		
Cooling System	1U Rackmount		
Form Factor	2U (4-node) Rackmount		

* Please check with your Supermicro sales representative and website for compatibility and configuration details

1U TwinPro™

2 hot swappable nodes in 1U, Redundant Titanium Level power supplies



MODEL	SYS-1028TP-DTR	SYS-1028TP-DTTR	SYS-1028TP-DTFR
Processor Support	Dual set of Dual Intel® Xeon® Processor E5-2600 v4/ v3 product families supported; QPI up to 9.6GT/s, CPU support up to 145W TDP	Dual set of Dual Intel® Xeon® Processor E5-2600 v4/ v3 product families supported; QPI up to 9.6GT/s, CPU support up to 145W TDP	Dual set of Dual Intel® Xeon® Processor E5-2600 v4/ v3 product families supported; QPI up to 9.6GT/s, CPU support up to 145W TDP
Key Applications	- Mission-critical applications - High Availability Storage Appliance Platform	- Mission-critical applications - High Availability Storage Appliance Platform	- Mission-critical applications - High Availability Storage Appliance Platform
Outstanding Features	2 hot swappable nodes in 1U 1x PCI-E 3.0 x16 Low-profile slot and 1x "0" slot - Intel® i350 Dual port GbE LAN 1000W Redundant Power Supplies	2 hot swappable nodes in 1U 1x PCI-E 3.0 x16 Low-profile slot and 1x "0" slot - Intel® X540 Dual port 10GBase-T LAN 1000W Redundant Power Supplies	2 hot swappable nodes in 1U 1x PCI-E 3.0 x16 Low-profile slot and 1x "0" slot - Single port FDR (56Gbps) IB w/ QSFP connector - Intel® i350 Dual port GbE LAN 1000W Redundant Power Supplies
Serverboard	SUPER [®] X10DRT-P	SUPER [®] X10DRT-PT	SUPER [®] X10DRT-PIBF
Chipset	Intel® C612 chipset	Intel® C612 chipset	Intel® C612 chipset
System Memory (Max.)*	Dual set of up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots	Dual set of up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots	Dual set of up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots
Expansion Slots	Dual set of low-profile PCI-E x16; 1x "0" slot	Dual set of low-profile PCI-E x16; 1x "0" slot	Dual set of low-profile PCI-E x16; 1x "0" slot
Onboard Storage Controller	Dual set of Intel® C612 controller for 4 SATA3 (6 Gbps) ports; RAID 0,1,5,10	Dual set of Intel® C612 controller for 4 SATA3 (6 Gbps) ports; RAID 0,1,5,10	Dual set of Intel® C612 controller for 4 SATA3 (6 Gbps) ports; RAID 0,1,5,10
Connectivity	Dual set of Dual LAN with Intel® i350 Gigabit Ethernet controller	Dual set of Dual LAN with Intel® X540 10GBase-T Ethernet Controller;	Dual set of Dual LAN with Intel® i350 Gigabit Ethernet controller Dual set of Single FDR infiniband with Mellanox Connect-X3
VGA/Audio	Dual set of Aspeed AST2400 BMC	Dual set of Aspeed AST2400 BMC	Dual set of Aspeed AST2400 BMC
Management	Dual set of IPMI 2.0 + KVM with dedicated LAN, SuperDoctor® 5, Watchdog	Dual set of IPMI 2.0 + KVM with dedicated LAN, SuperDoctor® 5, Watchdog	Dual set of IPMI 2.0 + KVM with dedicated LAN, SuperDoctor® 5, Watchdog
Drive Bays	Dual set of 4x 2.5" hot-swap SATA drive bays	Dual set of 4x 2.5" hot-swap SATA drive bays	Dual set of 4x 2.5" hot-swap SATA drive bays
Peripheral Bays	1000W Redundant Titanium Level high-efficiency power supplies with I²C & PMBus	1000W Redundant Titanium Level high-efficiency power supplies with I²C & PMBus	1000W Redundant Titanium Level high-efficiency power supplies with I²C & PMBus
Power Supply	Dual set of 3x heavy duty counter rotating fans with air shroud and optimal fan speed control	Dual set of 3x heavy duty counter rotating fans with air shroud and optimal fan speed control	Dual set of 3x heavy duty counter rotating fans with air shroud and optimal fan speed control
Cooling System	1U Rackmount	1U Rackmount	1U Rackmount
Form Factor	2U (4-node) Rackmount	2U (4-node) Rackmount	2U (4-node) Rackmount

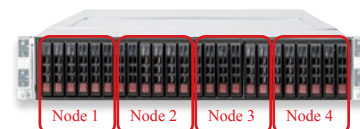
* Please check with your Supermicro sales representative and website for compatibility and configuration details

SIOM Support on 2U TwinPro²

4 hot-swap nodes in 2U w/ 2.5" HDDs; Up to 2 Low Profile PCI-E Cards + 1 SIOM Card



(Rear View)



SYS-2028TP-H Series

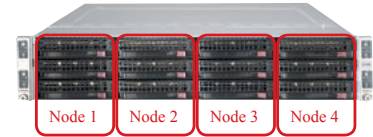
4 DP Nodes in 2U, 24x 2.5" SAS/SATA drives

MODEL	SYS-2028TP-HTR-SIOM	SYS-2028TP-HC1R-SIOM	SYS-2028TP-HC0R-SIOM
Processor Support	Quad set of Dual Intel® Xeon® Processor E5-2600 v4/ v3 product families supported; QPI up to 9.6GT/s; CPU TDP support Up to 145W	Quad set of Dual Intel® Xeon® Processor E5-2600 v4/ v3 product families supported; QPI up to 9.6GT/s; CPU TDP support Up to 145W	Quad set of Dual Intel® Xeon® Processor E5-2600 v4/ v3 product families supported; QPI up to 9.6GT/s; CPU TDP support Up to 145W
Key Applications	• Compute Intensive Application • Data Center • Enterprise Server • Financial Analysis • HPC • Mission-Critical	• Compute Intensive Application • Data Center • Enterprise Server • Financial Analysis • HPC • Mission-Critical	• Compute Intensive Application • Data Center • Enterprise Server • Financial Analysis • HPC • Mission-Critical
Outstanding Features	• 2 Low-profile PCI-E slots • 1 SIOM card support • IPMI 2.0 + KVM with dedicated LAN • QUAD set of 6 hot-swap 2.5" SATA drive bays	• 2 Low-profile PCI-E slots • 1 SIOM card support • IPMI 2.0 + KVM with dedicated LAN • QUAD set of 6 hot-swap 2.5" SAS/SATA drive bays	• 2 Low-profile PCI-E slots • 1 SIOM card support • IPMI 2.0 + KVM with dedicated LAN • QUAD set of 6 hot-swap 2.5" SAS/SATA drive bays
Serverboard	SUPER [®] X10DRT-PS	SUPER [®] X10DRT-PS	SUPER [®] X10DRT-PS
Chipset	Intel® C612 Chipset	Intel® C612 Chipset	Intel® C612 Chipset
System Memory (Max.)*	Quad set of up to 2TB ECC LRDIMM, 512GB ECC RDIMM, DDR4-2400MHz in 16 DIMM slots	Quad set of up to 2TB ECC LRDIMM, 512GB ECC RDIMM, DDR4-2400MHz in 16 DIMM slots	Quad set of up to 2TB ECC LRDIMM, 512GB ECC RDIMM, DDR4-2400MHz in 16 DIMM slots
Expansion Slots	Quad set of 1x PCI-E 3.0 LP x16; 1x PCI-E 3.0 LP x8; 1x SIOM card support	Quad set of 1x PCI-E 3.0 LP x16; 1x PCI-E 3.0 LP x8; 1x SIOM card support	Quad set of 1x PCI-E 3.0 LP x16; 1x PCI-E 3.0 LP x8; 1x SIOM card support
Onboard Storage Controller	Quad set of Intel® C612 controller for 6 SATA3 (6 Gbps) ports; RAID 0,1,5,10	Quad set of Broadcom 3108 HW RAID 12Gbps SAS 3.0 controller for RAID 0,1,5,6,10,50 w/optional SuperCap	Quad set of Broadcom 3008 SW RAID 12Gbps SAS 3.0 controller for RAID 0,1,10
Connectivity	Quad set of single IPMI 2.0 + KVM with dedicated LAN only. Need to bundle with network card	Quad set of single IPMI 2.0 + KVM with dedicated LAN only. Need to bundle with network card	Quad set of single IPMI 2.0 + KVM with dedicated LAN only. Need to bundle with network card
VGA/Audio	Quad set of AST2400 VGA	Quad set of AST2400 VGA	Quad set of AST2400 VGA
Management	Quad set of IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog	Quad set of IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog	Quad set of IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog
Drive Bays	Quad set of 6x 2.5" hot-swap SATA drive bays	Quad set of 6x 2.5" hot-swap SAS/SATA drive bays	Quad set of 6x 2.5" hot-swap SAS/SATA drive bays
Peripheral Bays	Redundant 2000W Platinum Level high-efficiency power supplies with I ² C & PMBus	Redundant 2000W Platinum Level high-efficiency power supplies with I ² C & PMBus	Redundant 2000W Platinum Level high-efficiency power supplies with I ² C & PMBus
Power Supply	4x 8cm heavy duty PWM fans with air shroud with optimal fan speed control	4x 8cm heavy duty PWM fans with air shroud with optimal fan speed control	4x 8cm heavy duty PWM fans with air shroud with optimal fan speed control
Cooling System	2U Rackmount 438 x 88 x 724mm (17.25" x 3.47" x 28.5")	2U Rackmount 438 x 88 x 724mm (17.25" x 3.47" x 28.5")	2U Rackmount 438 x 88 x 724mm (17.25" x 3.47" x 28.5")
Form Factor	2U (4-node) Rackmount	2U (4-node) Rackmount	2U (4-node) Rackmount

* Please check with your Supermicro sales representative and website for compatibility and configuration details

SIOM Support on 2U TwinPro²

4 hot-swap nodes in 2U w/ 2.5" HDDs, Up to 2 Low Profile PCI-E Cards + 1 SIOM Card



SYS-6028TP-H Series

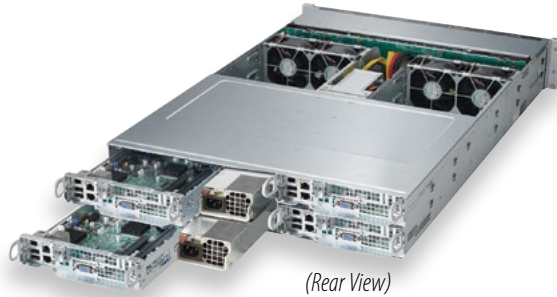
4 DP Nodes in 2U, 12x 3.5" SAS/SATA3 drives

MODEL	SYS-6028TP-HTR-SIOM	SYS-6028TP-HC1R-SIOM	SYS-6028TP-HC0R-SIOM
Processor Support	Quad set of Dual Intel® Xeon® Processor E5-2600 v4/ v3 product families supported; QPI up to 9.6GT/s; CPU TDP support Up to 145W	Quad set of Dual Intel® Xeon® Processor E5-2600 v4/ v3 product families supported; QPI up to 9.6GT/s; CPU TDP support Up to 145W	Quad set of Dual Intel® Xeon® Processor E5-2600 v4/ v3 product families supported; QPI up to 9.6GT/s; CPU TDP support Up to 145W
Key Applications	• Compute Intensive Application • Data Center • Enterprise Server • Financial Analysis • HPC • Mission-Critical	• Compute Intensive Application • Data Center • Enterprise Server • Financial Analysis • HPC • Mission-Critical	• Compute Intensive Application • Data Center • Enterprise Server • Financial Analysis • HPC • Mission-Critical
Outstanding Features	• 2 Low-profile PCI-E slots • 1 SIOM card support • IPMI 2.0 + KVM with dedicated LAN • QUAD set of 3 hot-swap 3.5" SATA drive bays	• 2 Low-profile PCI-E slots • 1 SIOM card support • IPMI 2.0 + KVM with dedicated LAN • QUAD set of 6 hot-swap 2.5" SAS/SATA drive bays	• 2 Low-profile PCI-E slots • 1 SIOM card support • IPMI 2.0 + KVM with dedicated LAN • QUAD set of 6 hot-swap 2.5" SAS/SATA drive bays
Serverboard	SUPER [®] X10DRT-PS	SUPER [®] X10DRT-PS	SUPER [®] X10DRT-PS
Chipset	Intel® C612 Chipset	Intel® C612 Chipset	Intel® C612 Chipset
System Memory (Max.)*	Quad set of up to 2TB ECC LRDIMM, 512GB ECC RDIMM, DDR4-2400MHz in 16 DIMM slots	Quad set of up to 2TB ECC LRDIMM, 512GB ECC RDIMM, DDR4-2400MHz in 16 DIMM slots	Quad set of up to 2TB ECC LRDIMM, 512GB ECC RDIMM, DDR4-2400MHz in 16 DIMM slots
Expansion Slots	Quad set of 1x PCI-E 3.0 LP x16; 1x PCI-E 3.0 LP x8; 1x SIOM card support	Quad set of 1x PCI-E 3.0 LP x16; 1x PCI-E 3.0 LP x8; 1x SIOM card support	Quad set of 1x PCI-E 3.0 LP x16; 1x PCI-E 3.0 LP x8; 1x SIOM card support
Onboard Storage Controller	Quad set of Intel® C612 controller for 3 SATA3 (6 Gbps) ports; RAID 0,1,5,10	Quad set of Broadcom 3108 HW RAID 12Gbps SAS 3.0 controller for RAID 0,1,5 w/optional SuperCap	Quad set of Broadcom 3008 SW RAID 12Gbps SAS 3.0 controller for RAID 0,1
Connectivity	Quad set of single IPMI 2.0 + KVM with dedicated LAN only. Need to bundle with network card	Quad set of single IPMI 2.0 + KVM with dedicated LAN only. Need to bundle with network card	Quad set of single IPMI 2.0 + KVM with dedicated LAN only. Need to bundle with network card
VGA/Audio	Quad set of AST2400 VGA	Quad set of AST2400 VGA	Quad set of AST2400 VGA
Management	Quad set of IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog	Quad set of IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog	Quad set of IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog
Drive Bays	Quad set of 3x 3.5" hot-swap SATA drive bays	Quad set of 3x 3.5" hot-swap SAS/SATA drive bays	Quad set of 3x 3.5" hot-swap SAS/SATA drive bays
Peripheral Bays	Redundant 2000W Platinum Level high-efficiency power supplies with I°C & PMBus	Redundant 2000W Platinum Level high-efficiency power supplies with I°C & PMBus	Redundant 2000W Platinum Level high-efficiency power supplies with I°C & PMBus
Power Supply	4x 8cm heavy duty PWM fans with air shroud with optimal fan speed control	4x 8cm heavy duty PWM fans with air shroud with optimal fan speed control	4x 8cm heavy duty PWM fans with air shroud with optimal fan speed control
Cooling System	2U Rackmount 438 x 88 x 774mm (17.25" x 3.47" x 30.5")	2U Rackmount 438 x 88 x 774mm (17.25" x 3.47" x 30.5")	2U Rackmount 438 x 88 x 774mm (17.25" x 3.47" x 30.5")
Form Factor	2U (4-node) Rackmount	2U (4-node) Rackmount	2U (4-node) Rackmount

* Please check with your Supermicro sales representative and website for compatibility and configuration details

2U TwinPro²[™]

4 hot-swap nodes in 2U w/ 2.5" or 3.5" HDDs, Intel® Xeon® Processor E5-2600 v4 product family support



SYS-2028TP-H Series

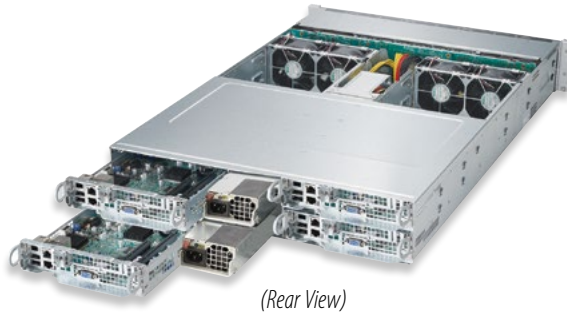
4 DP Nodes in 2U, 24x 2.5" SAS/SATA drives

MODEL	SYS-2028TP-HC1R SYS-2028TP-HC1TR SYS-2028TP-HC1FR	SYS-2028TP-HC0R SYS-2028TP-HC0TR SYS-2028TP-HC0FR	SYS-2028TP-HTR SYS-2028TP-HTTR SYS-2028TP-HTFR
Processor Support	Quad set of Dual Intel® Xeon® Processor E5-2600 v4/ v3 product families supported; QPI up to 9.6GT/s; CPU TDP support Up to 145W	Quad set of Dual Intel® Xeon® Processor E5-2600 v4/ v3 product families supported; QPI up to 9.6GT/s; CPU TDP support Up to 145W	Quad set of Dual Intel® Xeon® Processor E5-2600 v4/ v3 product families supported; QPI up to 9.6GT/s; CPU TDP support Up to 145W
Key Applications	• Compute Intensive Application • Data Center • Enterprise Server • Financial Analysis • HPC • Mission-Critical	• Compute Intensive Application • Data Center • Enterprise Server • Financial Analysis • HPC • Mission-Critical	• Compute Intensive Application • Data Center • Enterprise Server • Financial Analysis • HPC • Mission-Critical
Outstanding Features	• 1 Low-profile PCI-E 3.0 x16 slot • 4 hot swappable nodes in 2U • IPMI 2.0 + KVM with dedicated LAN • Quad set of 6 hot-swap 2.5" SATA/SAS drive bays • SAS 3.0, 40G Ethernet, FDR IB	• 1 Low-profile PCI-E 3.0 x16 slot + 0 slot • 4 hot swappable nodes in 2U • IPMI 2.0 + KVM with dedicated LAN • Quad set of 6 hot-swap 2.5" SATA/SAS drive bays • SAS 3.0, 40G Ethernet, FDR IB	• 1 Low-profile PCI-E 3.0 x16 slot + 0 slot • 4 hot swappable nodes in 2U • IPMI 2.0 + KVM with dedicated LAN • Quad set of 6 hot-swap 2.5" SATA/SAS drive bays • SAS 3.0, 40G Ethernet, FDR IB
Serverboard	-HC1R: SUPER [®] X10DRT-P -HC1TR: SUPER [®] X10DRT-PT -HC1FR: SUPER [®] X10DRT-PIBF	-HC0R: SUPER [®] X10DRT-P -HC0TR: SUPER [®] X10DRT-PT -HC0FR: SUPER [®] X10DRT-PIBF	-HTR: SUPER [®] X10DRT-P -HTTR: SUPER [®] X10DRT-PT -HTFR: SUPER [®] X10DRT-PIBF
Chipset	Intel® C612 Chipset	Intel® C612 Chipset	Intel® C612 Chipset
System Memory (Max.)*	Quad set of up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots	Quad set of up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots	Quad set of up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots
Expansion Slots	Quad set of low-profile PCI-E 3.0 x16	Quad set of low-profile PCI-E 3.0 x16; 1 x16 "0 slot"	Quad set of low-profile PCI-E 3.0 x16; 1 x16 "0 slot"
Onboard Storage Controller	Quad set of Broadcom 3108 HW RAID SAS 3.0 (12Gbps); RAID 0,1,5,6,10,50 w/ optional SuperCap	Quad set of Broadcom 3008 SW RAID 12Gbps SAS 3.0 controller; RAID 0,1,10	Quad set of Intel® C612 AHCI controller for 6 SATA3 (6Gbps); RAID 0,1,5,10
Connectivity	-HC1R: Quad set of Dual LAN with Intel® i350 Gigabit Ethernet controller; -HC1TR: Quad set of Dual 10Gb Ethernet LAN with Intel® X540 and 10GBase-T Connector; -HC1FR: Quad set of FDR (Connect-X3) InfiniBand / 40G Ethernet	-HC0R: Quad set of Dual LAN with Intel® i350 Gigabit Ethernet controller; -HC0TR: Quad set of Dual 10Gb Ethernet LAN with Intel® X540 and 10GBase-T Connector; -HC0FR: Quad set of FDR (Connect-X3) InfiniBand / 40G Ethernet	-HTR: Quad set of Dual LAN with Intel® i350 Gigabit Ethernet controller; -HTTR: Quad set of Dual 10Gb Ethernet LAN with Intel® X540 and 10GBase-T Connector; -HTFR: Quad set of FDR (Connect-X3) InfiniBand / 40G Ethernet
VGA/Audio	Quad set of AST2400 VGA	Quad set of AST2400 VGA	Quad set of AST2400 VGA
Management	Quad set of IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog	Quad set of IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog	Quad set of IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog
Drive Bays	Quad set of 6x 2.5" hot-swap SAS/SATA drive bays	Quad set of 6x 2.5" hot-swap SAS/SATA drive bays	Quad set of 6x 2.5" hot-swap SATA drive bays
Peripheral Bays	Redundant 2000W Titanium Level high-efficiency power supplies with iC & PMBus	Redundant 2000W Titanium Level high-efficiency power supplies with iC & PMBus	Redundant 2000W Titanium Level high-efficiency power supplies with iC & PMBus
Power Supply	4x 8cm heavy duty PWM fans with air shroud with optimal fan speed control	4x 8cm heavy duty PWM fans with air shroud with optimal fan speed control	4x 8cm heavy duty PWM fans with air shroud with optimal fan speed control
Cooling System	2U Rackmount 438 x 88 x 724mm (17.25" x 3.47" x 28.5")	2U Rackmount 438 x 88 x 724mm (17.25" x 3.47" x 28.5")	2U Rackmount 438 x 88 x 724mm (17.25" x 3.47" x 28.5")
Form Factor	2U (4-node) Rackmount	2U (4-node) Rackmount	2U (4-node) Rackmount

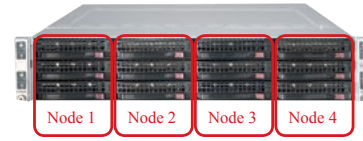
* Please check with your Supermicro sales representative and website for compatibility and configuration details

2U TwinPro²

4 hot-swap nodes in 2U w/ 2.5" or 3.5" HDDs, Intel® Xeon® Processor E5-2600 v4 product family support



(Rear View)



SYS-6028TP-H Series

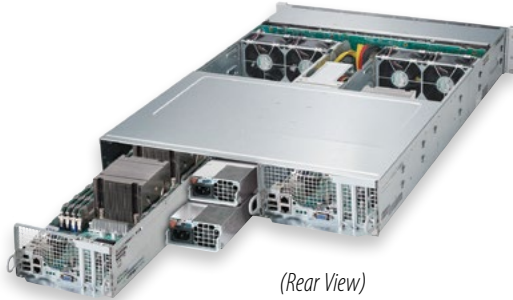
4 DP Nodes in 2U, 12x 3.5" SAS/SATA3 drives

MODEL	SYS-6028TP-HC1R SYS-6028TP-HC1TR SYS-6028TP-HC1FR	SYS-6028TP-HC0R SYS-6028TP-HC0TR SYS-6028TP-HC0FR	SYS-6028TP-HTR SYS-6028TP-HTTR SYS-6028TP-HTFR
Processor Support	Quad set of Dual Intel® Xeon® Processor E5-2600 v4/ v3 product families supported; QPI up to 9.6GT/s; CPU TDP support Up to 145W	Quad set of Dual Intel® Xeon® Processor E5-2600 v4/ v3 product families supported; QPI up to 9.6GT/s; CPU TDP support Up to 145W	Quad set of Dual Intel® Xeon® Processor E5-2600 v4/ v3 product families supported; QPI up to 9.6GT/s; CPU TDP support Up to 145W
Key Applications	• Compute Intensive Application • Data Center • Enterprise Server • Financial Analysis • HPC • Mission-Critical	• Compute Intensive Application • Data Center • Enterprise Server • Financial Analysis • HPC • Mission-Critical	• Compute Intensive Application • Data Center • Enterprise Server • Financial Analysis • HPC • Mission-Critical
Outstanding Features	• 1 Low-profile PCI-E 3.0 x16 slot • 4 hot swappable nodes in 2U • IPMI 2.0 + KVM with dedicated LAN • Quad set of 3 hot-swap 3.5" SATA/SAS drive bays • SAS3, 10G, 40G Ethernet, FDR	• 1 Low-profile PCI-E 3.0 x16 slot + 0 slot • 4 hot swappable nodes in 2U • IPMI 2.0 + KVM with dedicated LAN • Quad set of 3 hot-swap 3.5" SATA/SAS drive bays • SAS3, 10G, 40G Ethernet, FDR	• 1 Low-profile PCI-E 3.0 x16 slot + 0 slot • 4 hot swappable nodes in 2U • IPMI 2.0 + KVM with dedicated LAN • Quad set of 3 hot-swap 3.5" SATA/SAS drive bays • SAS3, 10G, 40G Ethernet, FDR
Serverboard	-HC1R: SUPER [®] X10DRT-P -HC1TR: SUPER [®] X10DRT-PT -HC1FR: SUPER [®] X10DRT-PIBF	-HC0R: SUPER [®] X10DRT-P -HC0TR: SUPER [®] X10DRT-PT -HC0FR: SUPER [®] X10DRT-PIBF	-HTR: SUPER [®] X10DRT-P -HTTR: SUPER [®] X10DRT-PT -HTFR: SUPER [®] X10DRT-PIBF
Chipset	Intel® C612 Chipset	Intel® C612 Chipset	Intel® C612 Chipset
System Memory (Max.)*	Quad set of up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots	Quad set of up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots	Quad set of up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots
Expansion Slots	Quad set of low-profile PCI-E 3.0 x16	Quad set of low-profile PCI-E 3.0 x16; 1 x16 "0 slot"	Quad set of low-profile PCI-E 3.0 x16; 1 x16 "0 slot"
Onboard Storage Controller	Quad set of Broadcom 3108 HW RAID SAS 3.0 (12Gbps); RAID 0,1,5 w/ optional SuperCap	Quad set of Broadcom 3008 SW RAID 12Gbps SAS 3.0 controller; RAID 0,1	Quad set of Intel® C612 AHCI controller for 3 SATA3 (6Gbps); RAID 0,1,5,10
Connectivity	-HC1R: Quad set of Dual LAN with Intel® i350 Gigabit Ethernet controller; -HC1TR: Quad set of Dual 10Gb Ethernet LAN with Intel® X540 and 10GBase-T Connector; -HC1FR: Quad set of FDR (Connect-X3) InfiniBand / 40G Ethernet	-HC0R: Quad set of Dual LAN with Intel® i350 Gigabit Ethernet controller; -HC0TR: Quad set of Dual 10Gb Ethernet LAN with Intel® X540 and 10GBase-T Connector; -HC0FR: Quad set of FDR (Connect-X3) InfiniBand / 40G Ethernet	-HTR: Quad set of Dual LAN with Intel® i350 Gigabit Ethernet controller; -HTTR: Quad set of Dual 10Gb Ethernet LAN with Intel® X540 and 10GBase-T Connector; -HTFR: Quad set of FDR (Connect-X3) InfiniBand / 40G Ethernet
VGA/Audio	Quad set of AST2400 VGA	Quad set of AST2400 VGA	Quad set of AST2400 VGA
Management	Quad set of IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog	Quad set of IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog	Quad set of IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog
Drive Bays	Quad set of 3x 3.5" hot-swap SAS/SATA drive bays	Quad set of 3x 3.5" hot-swap SAS/SATA drive bays	Quad set of 3x 3.5" hot-swap SATA drive bays
Peripheral Bays	Redundant 2000W Titanium Level high-efficiency power supplies with iPC & PMBus	Redundant 2000W Titanium Level high-efficiency power supplies with iPC & PMBus	Redundant 2000W Titanium Level high-efficiency power supplies with iPC & PMBus
Power Supply	4x 8cm heavy duty PWM fans with air shroud with optimal fan speed control	4x 8cm heavy duty PWM fans with air shroud with optimal fan speed control	4x 8cm heavy duty PWM fans with air shroud with optimal fan speed control
Cooling System	2U Rackmount 438 x 88 x 762mm (17.25" x 3.47" x 30")	2U Rackmount 438 x 88 x 762mm (17.25" x 3.47" x 30")	2U Rackmount 438 x 88 x 762mm (17.25" x 3.47" x 30")
Form Factor	2U (4-node) Rackmount	2U (4-node) Rackmount	2U (4-node) Rackmount

* Please check with your Supermicro sales representative and website for compatibility and configuration details

2U TwinPro™

2 hot-swap nodes in 2U w/ up to 4 NVMe per Node, Intel® Xeon® Processor E5-2600 v4 product family support



(Rear View)



SYS-2028TP-DNC(T)(F)R

Up to 4x NVMe + 8x SAS 3.0 drives (per node)

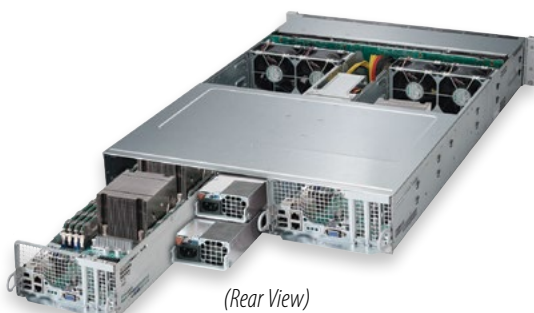


SYS-6028TP-DNC(T)(F)R

Up to 4x NVMe + 2x SAS 3.0 drives (per node), or
Up to 6x SAS 3.0 support (per node)

MODEL	SYS-2028TP-DNCR SYS-2028TP-DNCTR SYS-2028TP-DNCFR	SYS-6028TP-DNCR SYS-6028TP-DNCTR SYS-6028TP-DNCFR
Processor Support	Twin set of Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s; CPU TDP support Up to 145W	Twin set of Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s; CPU TDP support Up to 145W
Key Applications	• Compute Intensive Application • Data Center • Enterprise Server • Financial Analysis • HPC • Mission-Critical	• Compute Intensive Application • Data Center • Enterprise Server • Financial Analysis • HPC • Mission-Critical
Outstanding Features	• NVMe support • Up to 2 Low Profile Add-On-Cards • Redundant 1600W Titanium Level high-efficiency power supplies • 2 hot swappable nodes in 2U • IPMI 2.0 + KVM with dedicated LAN • SAS 3.0 (12Gbps) support	• NVMe support • Up to 2 Low Profile Add-On-Cards • Redundant 1600W Titanium Level high-efficiency power supplies • 2 hot swappable nodes in 2U • IPMI 2.0 + KVM with dedicated LAN • SAS 3.0 (12Gbps) support
Serverboard	-DNCR: SUPER® X10DRT-P -DNCTR: SUPER® X10DRT-PT -DNCFR: SUPER® X10DRT-PIBF	-DNCR: SUPER® X10DRT-P -DNCTR: SUPER® X10DRT-PT -DNCFR: SUPER® X10DRT-PIBF
Chipset	Intel® C612 Chipset	Intel® C612 Chipset
System Memory (Max.)*	Twin set of up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots	Twin set of up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots
Expansion Slots	Twin set of 1 PCI-E 3.0 x16, 1 PCI-E 3.0 x8	Twin set of 1 PCI-E 3.0 x16, 1 PCI-E 3.0 x8
Onboard Storage Controller	Twin set of Broadcom 3008 SAS 3.0 (12Gbps); RAID 0,1,10	Twin set of Broadcom 3008 SAS 3.0 (12Gbps); RAID 0,1,10
Connectivity	-DNCR: Twin set of Dual LAN with Intel® i350 Gigabit Ethernet controller -DNCTR: Twin set of Dual 10Gb Ethernet LAN with Intel® X540 and 10GbBase-T Connector -DNCFR: Twin set of FDR (Connect-X3) / 40G Ethernet	-DNCR: Twin set of Dual LAN with Intel® i350 Gigabit Ethernet controller -DNCTR: Twin set of Dual 10Gb Ethernet LAN with Intel® X540 and 10GbBase-T Connector -DNCFR: Twin set of FDR (Connect-X3) / 40G Ethernet
VGA/Audio	Twin set of AST2400 VGA	Twin set of AST2400 VGA
Management	Twin set of IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog	Twin set of IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog
Drive Bays	Twin set 4x NVMe + 8x SAS 3.0 drives	Twin set of 6x 3.5" hot-swap drive bays. Up to 4x NVMe + 2x SAS 3.0 drives (per node); or, up to 6x SAS3 support
Peripheral Bays	Redundant 1600W Titanium Level high-efficiency power supplies with I²C & PMBus	Redundant 1600W Titanium Level high-efficiency power supplies with I²C & PMBus
Power Supply	4x 8cm heavy duty PWM fans with air shroud and optimal fan speed control	4x 8cm heavy duty PWM fans with air shroud and optimal fan speed control
Cooling System	2U Rackmount 438 x 88 x 724mm (17.25" x 3.47" x 28.5")	2U Rackmount 438 x 88 x 762mm (17.25" x 3.47" x 30")
Form Factor	2U (4-node) Rackmount	2U (4-node) Rackmount

* Please check with your Supermicro sales representative and website for compatibility and configuration details



(Rear View)



SYS-2028TP-DEC(F)(T)R
Expander to support 12x SAS 3.0 HDDs provided



SYS-2028TP-D Series
2 DP Nodes in 2U, 24x 2.5" SAS3/SATA3 drives

**SYS-2028TP-DECR
SYS-2028TP-DECFR
SYS-2028TP-DECTR**

Twin set of Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s; CPU TDP support Up to 145W

- Compute Intensive Application
- Data Center
- Enterprise Server
- Financial Analysis
- HPC
- Mission-Critical

- SAS3 3008 with Expander
- Up to 2 Low Profile Add-On-Cards + 0 slot
- 1280W Platinum Level redundant high-efficiency power supplies
- 2 hot swappable nodes in 2U
- IPMI 2.0 + KVM with dedicated LAN
- SAS 3.0 (12Gbps) support
- 12 hot-swap 2.5" SAS/SATA drive bays per node

-DECR: SUPER● X10DRT-P
 -DECFR: SUPER● X10DRT-PIBF
 -DNCFTR: SUPER● X10DRT-PT

Intel® C612 Chipset

Twin set of up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots

Twin set of 1 PCI-E 3.0 x16, 1 PCI-E 3.0 x8 and 1 "Zero Slot" card

Twin set of Broadcom 3008 SAS 3.0 (12Gbps); RAID 0,1,10

-DECR: Twin set of Dual LAN with Intel® i350 Gigabit Ethernet controller
 -DECFR: Twin set of FDR (Connect-X3) / 40G Ethernet
 -DNCFTR: Twin set of Dual 10Gb Ethernet LAN with Intel® X540 and 10GBase-T Connector

Twin set of AST2400 VGA

Twin set of IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog

Twin set 12x 2.5" hot-swap SAS 3008 with Expander

Redundant 1280W Platinum Level high-efficiency power supplies with iPC & PMBus

4x 8cm heavy duty PWM fans with air shroud and optimal fan speed control

2U Rackmount
438 x 88 x 724mm (17.25" x 3.47" x 28.5")

**SYS-2028TP-DC1R
SYS-2028TP-DC1TR
SYS-2028TP-DC1FR**

Twin set of Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s; CPU TDP support Up to 145W

- Compute Intensive Application
- Data Center
- Enterprise Server
- Financial Analysis
- HPC
- Mission-Critical

- Up to 2 Low Profile Add-On-Cards Redundant 1280W Platinum Level high-efficiency power supplies
- GPU/Coprocessor or one x16 Internal slot Support
- 2 hot swappable nodes in 2U
- IPMI 2.0 + KVM with dedicated LAN
- SAS 3.0 (12Gbps) support

-DC1R: SUPER● X10DRT-P
 -DC1TR: SUPER● X10DRT-PT
 -DC1FR: SUPER● X10DRT-PIBF

Intel® C612 Chipset

Twin set of up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots

Twin set of 1 PCI-E 3.0 x16, 1 PCI-E 3.0 x8, GPU support

Twin set of SAS3 Broadcom 3108 HW RAID (12Gbps); RAID 0,1,5,6,10,50,60 w/ optional SuperCap

-DC1R: Twin set of Dual LAN with Intel® i350 Gigabit Ethernet controller;
 -DC1TR: Twin set of Dual 10Gb Ethernet LAN with Intel® X540 and 10GBase-T Connector;
 -DC1FR: Twin set of FDR (Connect-X3) InfiniBand / 40G Ethernet

Twin set of AST2400 VGA

Twin set of IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog

Twin set of 12x 2.5" hot-swap (8x SAS + 4x SATA) drive bays

Redundant 1280W Platinum Level Digital high-efficiency power supplies with iPC & PMBus

4x 8cm heavy duty PWM fans with air shroud with optimal fan speed control

2U Rackmount
438 x 88 x 724mm (17.25" x 3.47" x 28.5")

**SYS-2028TP-DC0R
SYS-2028TP-DC0TR
SYS-2028TP-DC0FR**

Twin set of Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s; CPU TDP support Up to 145W

- Compute Intensive Application
- Data Center
- Enterprise Server
- Financial Analysis
- HPC
- Mission-Critical

- Up to 2 Low Profile Add-On-Cards + 0 slot
- Redundant 1280W Platinum Level high-efficiency power supplies
- 2 hot swappable nodes in 2U
- IPMI 2.0 + KVM with dedicated LAN
- SAS 3.0 (12Gbps) support
- (Full size) mSATA support

-DC0R: SUPER● X10DRT-P
 -DC0TR: SUPER● X10DRT-PT
 -DC0FR: SUPER● X10DRT-PIBF

Intel® C612 Chipset

Twin set of up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots

Twin set of 1 PCI-E 3.0 x16, 1 PCI-E 3.0 x8, 1 "0 slot"

Twin set of Broadcom 3008 SAS 3.0 12Gbps controller; SW RAID 0,1,10

-DC0R: Twin set of Dual LAN with Intel® i350 Gigabit Ethernet controller;
 -DC0TR: Twin set of Dual 10Gb Ethernet LAN with Intel® X540 and 10GBase-T Connector;
 -DC0FR: Twin set of FDR (Connect-X3) InfiniBand / 40G Ethernet

Twin set of AST2400 VGA

Twin set of IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog

Twin set of 12x 2.5" hot-swap (8x SAS + 4x SATA) drive bays

Redundant 1280W Platinum Level Digital high-efficiency power supplies with iPC & PMBus

4x 8cm heavy duty PWM fans with air shroud with optimal fan speed control

2U Rackmount
438 x 88 x 724mm (17.25" x 3.47" x 28.5")

**SYS-2028TP-DTR
SYS-2028TP-DTTR
SYS-2028TP-DTFR**

Twin set of Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s; CPU TDP support Up to 145W

- Compute Intensive Application
- Data Center
- Enterprise Server
- Financial Analysis
- HPC
- Mission-Critical

- Up to 2 Low Profile Add-On-Cards
- Redundant 1280W Platinum Level high-efficiency power supplies
- GPU/Coprocessor or one x16 Internal slot Support
- 2 hot swappable nodes in 2U
- IPMI 2.0 + KVM with dedicated LAN
- (Full size) mSATA support

-DTR: SUPER● X10DRT-P
 -DTTR: SUPER● X10DRT-PT
 -DTFR: SUPER● X10DRT-PIBF

Intel® C612 Chipset

Twin set of up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots

Twin set of 1 PCI-E 3.0 x16, 1 PCI-E 3.0 x8, GPU support

Twin set of Intel® C612 controller for 8 SATA3 (6Gbps); RAID 0,1,5,10

-DTR: Twin set of Dual LAN with Intel® i350 Gigabit Ethernet controller;
 -DTTR: Twin set of Dual 10Gb Ethernet LAN with Intel® X540 and 10GBase-T Connector;
 -DTFR: Twin set of FDR (Connect-X3) InfiniBand / 40G Ethernet

Twin set of AST2400 VGA

Twin set of IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog

Twin set of 8x 2.5" hot-swap SATA drive bays

Redundant 1280W Platinum Level Digital high-efficiency power supplies with iPC & PMBus

4x 8cm heavy duty PWM fans with air shroud with optimal fan speed control

2U Rackmount
438 x 88 x 724mm (17.25" x 3.47" x 28.5")

* Please check with your Supermicro sales representative and website for compatibility and configuration details



2U Twin

Cost-Optimized, 2 hot-swap nodes in 2U w/ 12x 3.5" HDDs
New! Intel® Xeon® Processor E5-2600 v4 product family support



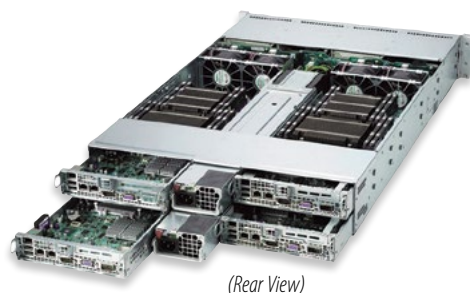
2 DP Nodes in 2U, 6x 3.5" HDD drives per Node

MODEL	SYS-6028TR-DTR	SYS-6028TR-D72R
Processor Support	Twin set of Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s; CPU TDP support Up to 145W	Twin set of Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s; CPU TDP support Up to 145W
Key Applications	• Data Center • Web Server • HPC • Virtualization	• Data Center • Web Server • HPC • Virtualization
Outstanding Features	• 8 DIMM slots • IPMI 2.0 + KVM with dedicated LAN • 2x SATADOM • 2 hot-swappable nodes in 2U • 1280W Platinum Level redundant high-efficiency power supplies	• Broadcom 2208 • 8 DIMM slots • IPMI 2.0 + KVM with dedicated LAN • 2x SATADOM • 2 hot-swappable nodes in 2U • 1280W Platinum Level redundant high-efficiency power supplies
Serverboard	SUPER [®] X10DRT-H	SUPER [®] X10DRT-H
Chipset	Intel® C612 Chipset	Intel® C612 Chipset
System Memory (Max.)*	Twin set of up to 1TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 8 DIMM slots	Twin set of up to 1TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 8 DIMM slots
Expansion Slots	Twin set of 2x PCI-E 3.0 x8 (FHHL); 1x PCI-E 3.0 x8 (LP)	Twin set of 2x PCI-E 3.0 x8 (FHHL); 1x PCI-E 3.0 x8 (LP)
Onboard Storage Controller	Twin set of Intel® C612 controller for 6 SATA3 (6 Gbps) ports; RAID 0,1,10	Twin set of SAS2 (6Gbps) via Broadcom 2208; HW RAID supports 0, 1, 5, 6, 10, 50
Connectivity	Twin set of dual LAN with Intel® i350 Gigabit Ethernet controller	Twin set of dual LAN with Intel® i350 Gigabit Ethernet controller
VGA/Audio	Twin set of AST2400 VGA	Twin set of AST2400 VGA
Management	Twin set of IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog	Twin set of IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog
Drive Bays	Twin set of 6x 3.5" hot-swap SATA3 HDDs	Twin set of 6x 3.5" hot-swap SAS2/SATA3 (Broadcom 2208) HDDs
Peripheral Bays	Redundant 1280W Platinum Level high-efficiency power supplies with I ² C & PMBus	Redundant 1280W Platinum Level high-efficiency power supplies with I ² C & PMBus
Power Supply	4x 80mm heavy duty fans with PWM fan speed control	4x 80mm heavy duty fans with PWM fan speed control
Cooling System	2U Rackmount 438 x 88 x 724mm (17.25" x 3.47" x 28.5")	2U Rackmount 438 x 88 x 724mm (17.25" x 3.47" x 28.5")
Form Factor	2U (4-node) Rackmount	2U (4-node) Rackmount

* Please check with your Supermicro sales representative and website for compatibility and configuration details

2U Twin

2 hot-swap nodes in 2U, New! Intel® Xeon® Processor E5-2600 v4 product family support



(Rear View)



SYS-2028TR-H Series

4 DP Nodes in 2U, 6x 2.5" HDD drives per Node



SYS-6028TR-H Series

4 DP Nodes in 2U, 3x 3.5" HDD drives per Node

MODEL	SYS-6028TR-HTR SYS-6028TR-HTFR	SYS-2028TR-H72R SYS-2028TR-H72FR SYS-2028TR-HTR SYS-2028TR-HTFR
Processor Support	Quad set of Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s; CPU TDP support Up to 145W	Quad set of Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s; CPU TDP support Up to 145W
Key Applications	- Data Center - Web Server - HPC - Virtualization	- Data Center - Web Server - HPC - Virtualization
Outstanding Features	1600W Redundant Titanium Level high-efficiency power supplies 8 DIMM slots - IPMI 2.0 + KVM with dedicated LAN 2x SATADOM 4 hot-swappable nodes in 2U	- Broadcom 2208 1600W Redundant Titanium Level high-efficiency power supplies 8 DIMM slots - IPMI 2.0 + KVM with dedicated LAN 2x SATADOM 4 hot-swappable nodes in 2U
Serverboard	-HTR: SUPER● X10DRT-H -HTFR: SUPER● X10DRT-HIBF	-H72R/HTFR: SUPER● X10DRT-H -H72FR/HTFR: SUPER● X10DRT-HIBF
Chipset	Intel® C612 Chipset	Intel® C612 Chipset
System Memory (Max.)*	Quad set of up to 1TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 8 DIMM slots	Quad set of up to 1TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 8 DIMM slots
Expansion Slots	Quad set of 1 PCI-E 3.0 x16 Low-profile	Quad set of 1 PCI-E 3.0 x16 Low-profile
Onboard Storage Controller	Quad set of Intel® C612 controller for 3 SATA3 (6 Gbps) ports; RAID 0,1	Quad set of SAS2 (6Gbps) via Broadcom 2208; HW RAID supports 0,1,5,6,10,50
Connectivity	-HTR: Quad set of dual LAN with Intel® i350 dual Gigabit Ethernet LAN -HTFR: Quad set of dual LAN with Mellanox ConnectX3 single port FDR	-H72R: Quad set of dual LAN with Intel® i350 dual Gigabit Ethernet LAN -H72FR: Quad set of dual LAN with Mellanox ConnectX3 single port FDR -HTR: Quad set of dual LAN with Intel® i350 dual Gigabit Ethernet LAN -HTFR: Quad set of dual LAN with Mellanox ConnectX3 single port FDR
VGA/Audio	Quad set of AST2400 VGA	Quad set of AST2400 VGA
Management	Quad set of IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog	Quad set of IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog
Drive Bays	Quad set of 3x 3.5" hot-swap SATA3 HDDs	Quad set of 6x 2.5" hot-swap SAS2 HDDs
Peripheral Bays	Redundant 1600W Titanium Level high-efficiency power supplies with I²C & PMBus	Redundant 1600W Titanium Level high-efficiency power supplies with I²C & PMBus
Power Supply	4x 80mm heavy duty fans with PWM fan speed control	4x 80mm heavy duty fans with PWM fan speed control
Cooling System	2U Rackmount 438 x 88 x 724mm (17.25" x 3.47" x 28.5")	2U Rackmount 438 x 88 x 679mm (17.25" x 3.47" x 26.75")
Form Factor	2U (4-node) Rackmount	2U (4-node) Rackmount

* Please check with your Supermicro sales representative and website for compatibility and configuration details



1U Twin

Cost-Optimized, 2 nodes in 1U w/ 4x 3.5" and 8x 2.5" HDDs
New! Intel® Xeon® Processor E5-2600 v4 product family support



MODEL	SYS-6018TR-T SYS-6018TR-TF	SYS-1028TR-T SYS-1028TR-TF
Processor Support	Twin set of Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s; CPU TDP support Up to 145W	Twin set of Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s; CPU TDP support Up to 145W
Key Applications	- HPC - Data Center - Front End Server	- HPC - Data Center - Front End Server
Outstanding Features	1000W Titanium Level high-efficiency power supply - IPMI 2.0 Management - IPMI 2.0 + KVM with dedicated LAN 56Gbps InfiniBand controller onboard (-TF)	1000W Titanium Level high-efficiency power supply - IPMI 2.0 Management - IPMI 2.0 + KVM with dedicated LAN 56Gbps InfiniBand controller onboard (-TF)
Serverboard	-T: SUPER● X10DRT-L -TF: SUPER● X10DRT-LIBF	-T: SUPER● X10DRT-L -TF: SUPER● X10DRT-LIBF
Chipset	Intel® C612 Chipset	Intel® C612 Chipset
System Memory (Max.)*	Twin set of up to 1TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 8 DIMM slots	Twin set of up to 1TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 8 DIMM slots
Expansion Slots	Twin set of 1 PCI-E 3.0 x16 (in x16 slot)	Twin set of 1 PCI-E 3.0 x16 (in x16 slot)
Onboard Storage Controller	Twin set of Intel® C612 controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10	Twin set of Intel® C612 controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10
Connectivity	-T: Twin set of dual LAN with Intel® i350 dual Gigabit Ethernet LAN -TF: Twin set of FDR (Connect-X3) 56Gbps InfiniBand controller onboard	-T: Twin set of dual LAN with Intel® i350 dual Gigabit Ethernet LAN -TF: Twin set of FDR (Connect-X3) 56Gbps InfiniBand controller onboard
VGA/Audio	Twin set of AST2400 VGA	Twin set of AST2400 VGA
Management	Twin set of IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog	Twin set of IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog
Drive Bays	Twin set of 2x 3.5" hot-swap SATA drive bays	Twin set of 4x 2.5" hot-swap SATA drive bays
Peripheral Bays	1000W Titanium Level high-efficiency power supplies	1000W Titanium Level high-efficiency power supplies
Power Supply	6x 40x56mm counter-rotation PWM fan	6x 40x56mm counter-rotation PWM fan
Cooling System	1U Twin 437 x 44.45 x 705mm (17.2" x 1.75" x 27.75")	1U Twin 437 x 44.45 x 705mm (17.2" x 1.75" x 27.75")
Form Factor	2U (4-node) Rackmount	2U (4-node) Rackmount

* Please check with your Supermicro sales representative and website for compatibility and configuration details

X11 FatTwin™

NEW! Intel® Xeon® Scalable Processors Supported



- **A Full Range of Processors** Up to the highest performing 165 watt TDP CPUs
- **High Density 8/4 hot-plug node 4U SuperServer®**
- **Power Efficient** Redundant 2200W Titanium Level (96%) Power Supplies
- **Twin Innovation** Based on proven Supermicro Twin Technology



SYS-F619P2-RT/RTN/RC0/RC1

SYS-F629P3-RTB/RTBN/RC0B/RC1B

4 DP Nodes,
8x3.5" per node, 12 DIMMs, RIO



Leading 4U System Based on Proven Twin Architecture for High Performance and Throughput

The new generation X11 Supermicro FatTwin™ is a high-density 8/4 hot-plug node 4U SuperServer® system available with a variety of memory capacities, HDD technologies, M.2 SSD NVMe, PCI-E alternatives, and networking capabilities. The FatTwin™ supports up to: 1.5TB ECC DDR4-2666MHz memory in 12 DIMM slots, 1 PCI-E 3.0 x16 and 1 SIOM flexible network card 8 ports of Broadcom SAS 3.0 (12Gbps) HBA or HW RAID, 10 ports of SATA 3.0 (6Gbps) with Intel® C621 controller, redundant Titanium Level (96%) Digital power supplies, integrated IPMI 2.0 with KVM over dedicated LAN, and dual Intel® Xeon® Scalable processor families up to 28 cores and 165W TDP.

The Supermicro FatTwin™ represents a revolution in Green Computing and is highly efficient by design; this system supports customers' critical applications while reducing Data Center TCO in order to help preserve the environment, and extends the compute and storage capabilities of Supermicro's existing Twin SuperServer® systems to achieve increased performance and power efficiency. Due to its shared components, the FatTwin™ improves cost-effectiveness and reliability, while its modular architecture makes it flexible to configure and easy to maintain.

Versatile configurations allow the FatTwin™ to be optimized for many different environments including Enterprise, Data Center, Cloud Computing, HPC, Financial, Science and Engineering, File and Storage Servers.



X11 FatTwin™

4U 8-Node, Rear I/O
6x 2.5" Drive Bays per Node



X11 FatTwin™

4U 4-Node, Rear I/O
8 Hot-swap 3.5" Drive Bays per Node



MODEL	SYS-F619P2-RT/RTN/RC0/RC1	SYS-F629P3-RTB/RTBN/RC0B/RC1B
Processor Support	Dual Intel® Xeon® Scalable processor with UPI up to 10.4 GT/s	Quad Intel® Xeon® Scalable processor with UPI up to 10.4 GT/s
Key Applications	- Hyperscale Solutions - Cloud Computing - Cluster Node - Data Center - HPC cluster computer nodes	- Hyperconverged Solutions - Cloud Computing - Cluster Node - Data Center - Hadoop & Ceph storage solutions
Outstanding Features	1 Low-profile PCI-E x16 slot - Support up to 28 cores 2200W Redundant Titanium Level high-efficiency power supplies 1 SIOM PCI-E x16 slot	- Support up to 28 cores 1200W Redundant Titanium Level high-efficiency power supplies 1 Low Profile PCI-E x16 slot 1 SIOM PCI-E x16 slot
Serverboard	SUPER● X11DPFR-S(N)	SUPER● X11DPFR-S(N)
Chipset	Intel® C621 chipset	Intel® C621 chipset
System Memory (Max.)*	Octal set of up to 1.5TB Registered ECC, DDR4-2666MHz in 12 DIMM slots	Quad set of up to 1.5TB Registered ECC, DDR4-2666MHz in 12 DIMM slots
Expansion Slots	Octal set of 1 PCI-E 3.0 x16 (LP); 1 PCI-E 3.0 x16 (SIOM)	Quad set of 1 PCI-E 3.0 x16 (LP); 1 PCI-E 3.0 x16 (SIOM)
Onboard Storage Controller	-RT: Intel C621 controller with 10 SATA3 ports -RTN: Intel C621 controller with 10 SATA 3 ports & Onboard NVMe -RC0: Broadcom LSI 3008 12Gb/s SAS I/O Controller -RC1: Broadcom LSI SAS 3108 12Gb/s HW RAID	-RTB: Quad set of Intel C621 controller with 10 SATA3 ports -RTBN: Quad set of Intel C621 controller with 14 SATA3 ports & Onboard NVMe -RC0B: Quad set of Broadcom LSI 3008 12Gb/s SAS I/O Controller -RC1B: Quad set of Broadcom LSI SAS 3108 12Gb/s HW RAID
Connectivity		
VGA/Audio	Octal set of Aspeed AST2500	Quad set of Aspeed AST2500
Management	Octal set of Intel Node Manager, IPMI2.0, SuperDoctor, Watchdog	Quad set of Intel Node Manager, IPMI2.0, SuperDoctor, Watchdog
Drive Bays	-RT: Octal set of 6x 2.5" Hot Swap SATA 3 -RTN: Octal set of 6x 2.5" Hot Swap SATA 3 or 4x 2.5" Hot Swap SATA 3 & 2 x Hot Swap NVMe U.2 -RC0: Octal set of 6x 2.5" Hot Swap SAS 3 or 4x 2.5" Hot Swap SAS 3 & 2 x Hot Swap NVMe U.2 -RC1: Octal set of 6x 2.5" Hot Swap SAS 3 HW RAID or 4x 2.5" Hot Swap SAS 3 HW RAID & 2 x Hot Swap NVMe U.2	-RTB: Quad set of 8x 3.5" Hot Swap SATA 3 -RTBN: Quad set of 8x 3.5" Hot Swap SATA 3 or 6x Hot Swap SATA 3 and 2x NVMe U.2 -RC0B: Quad set of 8x 3.5" Hot Swap SAS 3 or 6x 3.5" Hot Swap SAS 3 & 2 x Hot Swap NVMe U.2 -RC1B: Quad set of 8x 3.5" SAS 3 HW RAID or 6x 3.5" SAS 3 HW RAID & 2 x Hot Swap NVMe U.2
Peripheral Bays		
Power Supply	2200W high-efficiency Titanium Level redundant power supply w/ PMBus	1200W high-efficiency Titanium Level redundant power supply w/ PMBus
Cooling System	3x 4cm 20k RPM middle fans per node	2x 8cm 14k RPM middle fans per node
Form Factor	4U Enclosure: 448 x 177 x 737mm (17.63" x 6.96" x 29")	4U Enclosure: 448 x 177 x 737mm (17.63" x 6.96" x 29")

* Please check with your Supermicro sales representative and website for compatibility and configuration details

FatTwin™ 8-Node Front I/O



Rear View

MODEL	SYS-F618R2-FT SYS-F618R2-FC0	SYS-F618R3-FTL	SYS-F618R3-FT
Processor Support	Octal set of Dual Intel® Xeon® Processor E5-2600 v4/ v3 product families supported; QPI up to 9.6GT/s	Octal set of Dual Intel® Xeon® Processor E5-2600 v4/ v3 product families supported; QPI up to 9.6GT/s	Octal set of Dual Intel® Xeon® Processor E5-2600 v4/ v3 product families supported; QPI up to 9.6GT/s
Key Applications	- Cluster Node - Compute Intensive Application - Data Center	- Cluster Node - Compute Intensive Application - Data Center	- Cluster Node - Compute Intensive Application - Data Center
Outstanding Features	1 Low-profile PCI-E x16 slot 1620W Redundant Platinum Level high-efficiency power supplies 2 Gigabit Ethernet Ports - IPMI 2.0 + KVM with dedicated LAN SAS 3.0 (12 Gbps) support (-FC0)	1 Low-profile PCI-E x16 slot 2 Gigabit Ethernet Ports - IPMI 2.0 + KVM with dedicated LAN - RAID 0,1	1 Low-profile PCI-E x16 slot 2 Gigabit Ethernet Ports - IPMI 2.0 + KVM with dedicated LAN - RAID 0,1 - SATA 3.0 (6Gbps) support
Serverboard	-FT: SUPER●* X10DRFF -FC0: SUPER●* X10DRFF-C	SUPER●* X10DRFF	SUPER●* X10DRFF
Chipset	Intel® C612 Chipset	Intel® C612 Chipset	Intel® C612 Chipset
System Memory (Max.)*	Octal set of up to 1TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 8 DIMM slots	Octal set of up to 1TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 8 DIMM slots	Octal set of up to 1TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 8 DIMM slots
Expansion Slots	Octal set of 1 PCI-E 3.0 x16 (low-profile)	Octal set of 1 PCI-E 3.0 x16 (low-profile)	Octal set of 1 PCI-E 3.0 x16 (low-profile)
Onboard Storage Controller	-FT: Octal set of Intel® C612 controller for 4 SATA3 (6Gbps) ports; RAID 0,1,5,10; -FC0: Octal set of Broadcom 3008 controller for 4 SAS 3.0 (12Gbps) ports; RAID 0,1,10;	Octal set of Intel® C612 controller for 4 SATA3 (6Gbps) ports; RAID 0,1,5,10	Octal set of Intel® C612 controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10
Connectivity	Octal set of Dual Intel® i210 single port Gigabit Ethernet LAN	Octal set of Dual Intel® i210 single port Gigabit Ethernet LAN	Octal set of Dual Intel® i210 single port Gigabit Ethernet LAN
VGA/Audio	Octal set of AST2400 VGA	Octal set of AST2400 VGA	Octal set of AST2400 VGA
Management	Octal set of IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog	Octal set of IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog	Octal set of IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog
Drive Bays	-FT: Octal set of 2x 2.5" hot-swap SATA3 drive bays -FC0: Octal set of 2x 2.5" hot-swap SAS3 drive bays	Octal set of 2x fixed 3.5" SATA3 drive bays	Octal set of 2x fixed 3.5" SATA3 drive bays
Power Supply	4x Redundant 1620W Platinum Level power supplies with I²C & PMBus	4x Redundant 1620W Platinum Level power supplies with I²C & PMBus	4x Redundant 1620W Platinum Level power supplies with I²C & PMBus
Cooling System	8x 80mm heavy duty fans with air shroud & PWM fan speed control	2x 17cm fans	8x 80mm heavy duty fans with air shroud & PWM fan speed control
Form Factor	4U Rackmount 448 x 177 x 737mm (17.63" x 6.96" x 29")	4U Rackmount 448 x 177 x 787mm (17.63" x 6.96" x 31")	4U Rackmount 448 x 177 x 737mm (17.63" x 6.96" x 29")

* Please check with your Supermicro sales representative and website for compatibility and configuration details

FatTwin™
8-Node Front I/O, Serviceability & Efficiency!



Rear View

MODEL	SYS-F628R3-FT SYS-F628R3-FC0	SYS-F628R2-FC0
Processor Support	Quad set of Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s	Quad set of Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s
Key Applications	- Cluster Node - Compute Intensive Application - Data Center - Email Server - Mail Server	- Cluster Node - Data Center - HPC - Internet
Outstanding Features	1 Low-profile PCI-E x16 slot 1280W Platinum Level redundant high-efficiency power supplies 2 Gigabit Ethernet Ports 4x 3.5" SATA or SAS drives per node - IPMI 2.0 + KVM with dedicated LAN - Broadcom 3008 SAS 3.0 (12 Gbps) support (-FC0)	1 Low-profile PCI-E x16 slot 1280W Platinum Level redundant high-efficiency power supplies 2 Gigabit Ethernet Ports - IPMI 2.0 + KVM with dedicated LAN - Broadcom 3008 SAS 3.0 (12 Gbps) support (-FC0)
Serverboard	-FT: SUPER X10DRFF -FC0: SUPER X10DRFF-C	SUPER X10DRFF-C
Chipset	Intel® C612 Chipset	Intel® C612 Chipset
System Memory (Max.)*	Quad set of up to 1TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 8 DIMM slots	Quad set of up to 1TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 8 DIMM slots
Expansion Slots	Quad set of 1 PCI-E 3.0 x16 (low-profile)	Quad set of 1 PCI-E 3.0 x16 (low-profile)
Onboard Storage Controller	-FT: Quad set of Intel® C612 controller for 4 SATA3 (6Gbps) ports; RAID 0,1,5,10; -FC0: Quad set of Broadcom 3008 controller for 4 SAS 3.0 (12Gbps) ports; RAID 0,1,10	Quad set of Broadcom 3008 controller for 8 SAS 3.0 (12Gbps) ports; RAID 0,1,10
Connectivity	Quad set of Dual Intel® i210 single port Gigabit Ethernet LAN	Quad set of Dual Intel® i210 single port Gigabit Ethernet LAN
VGA/Audio	Quad set of AST2400 VGA	Quad set of AST2400 VGA
Management	Quad set of IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog	Quad set of IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog
Drive Bays	-FT: Quad set of 4x 3.5" hot-swap SATA3 drive bays -FC0: Quad set of 4x 3.5" hot-swap SAS3 drive bays	Quad set of 8x 2.5" hot-swap SAS3 drive bays
Power Supply	4x Redundant 1280W Platinum Level (95%+) Digital power supplies with I²C & PMBus	4x Redundant 1280W Platinum Level (95%+) Digital power supplies with I²C & PMBus
Cooling System	8x 80mm heavy duty hot-swap fans with air shroud & PWM fan speed control	8x 80mm heavy duty fans with air shroud & PWM fan speed control
Form Factor	4U Rackmount 448 x 177 x 737mm (17.63" x 6.96" x 29")	4U Rackmount 448 x 177 x 737mm (17.63" x 6.96" x 29")

* Please check with your Supermicro sales representative and website for compatibility and configuration details

FatTwin™
4 DP Nodes, Front I/O, 16 DIMMs



MODEL	SYS-F628R2-FT+/FC0+/FTPT+/FCOPT+	SYS-F628R3-FC0+/FCOPT+	SYS-F628R3-FT+/FTPT+
Processor Support	Quad set of Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s	Quad set of Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s	Quad set of Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s
Key Applications	- Data Center - Compute Intensive Application	- Data Center - Compute Intensive Application - Cluster Node	- Data Center - Compute Intensive Application - Cluster Node
Outstanding Features	2x PCI-E Gen 3.0 x8 (LP) 16 DIMM slots 1280W Platinum Level redundant high-efficiency power supplies - IPMI 2.0 + KVM with dedicated LAN SAS3 (12 Gbps) support	2x PCI-E Gen 3.0 x8 (LP) - RAID 0,1 - Supports 16 DIMM DDR4 up to 2400MHz - IPMI 2.0 + KVM with dedicated LAN 1280W Platinum Level redundant high-efficiency power supplies - Broadcom 3008 controller	2x PCI-E Gen 3.0 x8 (LP) - RAID 0,1 16 DIMM slots - IPMI 2.0 + KVM with dedicated LAN 1280W Platinum Level redundant high-efficiency power supplies
Serverboard	-FT+: SUPER●*X10DRFF-iG -FC0+: SUPER●*X10DRFF-CG -FTPT+: SUPER●*X10DRFF-iGT -FCOPT+: SUPER●*X10DRFF-CGT	-FC0+: SUPER●*X10DRFF-CG -FCOPT+: SUPER●*X10DRFF-CGT	-FT+: SUPER●*X10DRFF-iG -FTPT+: SUPER●*X10DRFF-iGT
Chipset	Intel® C612 Chipset	Intel® C612 Chipset	Intel® C612 Chipset
System Memory (Max.)*	Quad set of up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots	Quad set of up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots	Quad set of up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots
Expansion Slots	Quad set of 2 PCI-E 3.0 x8 (low-profile)	Quad set of 2 PCI-E 3.0 x8 (low-profile)	Quad set of 2 PCI-E 3.0 x8 (low-profile)
Onboard Storage Controller	-FT+/-FTPT+: Quad set of Intel® C612 controller for 10 SATA3 (6Gbps) ports; RAID 0,1,5,10 -FCOT+/-FCOPT+: Quad set of Broadcom 3008 controller for 8 SAS3 (12 Gbps) ports; RAID 0,1,10	Quad set of Intel® C612 controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10; Broadcom 3008 SW controller for 8 SAS3 (12Gbs) ports; RAID 0,1,10	Quad set of Intel® C612 controller; RAID 0,1
Connectivity	-FT+/-FC0+: Quad set of Dual 1GbE LAN ports and 1x Dedicated IPMI port -FTPT+/-FCOPT+: Quad set of Dual LAN with Intel® X540 10GBase-T Ethernet Controller	-FC0+: Quad set of Dual 1GbE LAN ports and 1x Dedicated IPMI port -FCOPT+: Quad set of Dual 10GBase-T LAN ports and 1x Dedicated IPMI port	-FT+: Quad set of Dual 1GbE LAN ports and 1x Dedicated IPMI port -FTPT+: Quad set of Dual 10GBase-T LAN ports and 1x Dedicated IPMI port
VGA/Audio	Quad set of AST2400 VGA	Quad set of AST2400 VGA	Quad set of AST2400 VGA
Management	Quad set of IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog	Quad set of IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog	Quad set of IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog
Drive Bays	Quad set of 6x 2.5" SAS3 /SATA3 drive bays	Quad set of 2x 3.5" SAS3 /SATA3 drive bays	Quad set of 2x 3.5" SATA3 drive bays
Power Supply	4x Redundant 1280W Platinum Level (95%+) Digital power supplies with iC & PMBus	4x Redundant 1280W Platinum Level (95%+) Digital power supplies with iC & PMBus	4x Redundant 1280W Platinum Level (95%+) Digital power supplies with iC & PMBus
Cooling System	Quad set of 8x 80mm heavy duty fans with air shroud & PWM fan speed control	Quad set of 8x 80mm heavy duty fans with air shroud & PWM fan speed control	Quad set of 8x 80mm heavy duty fans with air shroud & PWM fan speed control
Form Factor	4U Rackmount 448 x 177 x 737mm (17.63" x 6.96" x 29")	4U Rackmount 448 x 177 x 737mm (17.63" x 6.96" x 29")	4U Rackmount 448 x 177 x 737mm (17.63" x 6.96" x 29")
* Please check with your Supermicro sales representative and website for compatibility and configuration details			



FatTwin™ 8-Node 16 DIMMs, Front I/O



Rear View

MODEL	SYS-F618R2-FT+ SYS-F618R2-FTPT+	SYS-F618R3-FT+ SYS-F618R3-FTPT+
Processor Support	Octal set of Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s	Octal set of Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s
Key Applications	- Data Center - HPC cluster computer nodes - Compute Intensive Application	- Data Center - HPC cluster computer nodes - Compute Intensive Application - Cluster Node
Outstanding Features	1x8 and 1 x4 PCI-E slots 4x 2.5" HDD per node 16 DIMM slots - IPMI 2.0 + KVM with dedicated LAN - RAID 0,1 support 2000W Titanium Level redundant high-efficiency power supplies	1 low profile PCI-E x16 slot 2x 3.5" HDD per node 2 Gigabit Ethernet Ports - IPMI 2.0 + KVM with dedicated LAN - RAID 0,1 support 2000W Titanium Level redundant high-efficiency power supplies
Serverboard	-FT+: SUPER● X10DRFF-iG -FTPT+: SUPER● X10DRFF-iTG	-FT+: SUPER● X10DRFF-iG -FTPT+: SUPER● X10DRFF-iTG
Chipset	Intel® C612 Chipset	Intel® C612 Chipset
System Memory (Max.)*	Octal set of up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots	Octal set of up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots
Expansion Slots	Octal set of 1 PCI-E 3.0 x8 (low-profile) and 1 PCI-E 2.0 x4 or 2 PCI-E 3.0 x8 (optional)	Octal set of 1 PCI-E 3.0 x8, 1 PCI-E 2.0 x4, or 2 PCI-E 3.0 x8 (optional)
Onboard Storage Controller	Octal set of Intel® C612 controller for 10 SATA3 (6Gbps) ports; RAID 0,1,5,10	Octal set of Intel® C612 controller for 10 SATA3 (6Gbps) ports; RAID 0,1
Connectivity	-FT+: Octal set of Dual 1GbE LAN ports and 1x Dedicated IPMI port -FTPT+: Octal set of Dual LAN with Intel® X540 10GBase-T Ethernet Controller	-FT+: Octal set of Dual 1GbE LAN ports and 1x Dedicated IPMI port -FTPT+: Octal set of Dual 10GBase-T LAN ports, and 1x Dedicated IPMI port
VGA/Audio	Octal set of AST2400 VGA	Octal set of AST2400 VGA
Management	Octal set of IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog	Octal set of IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog
Drive Bays	Octal set of 4x 2.5" SATA3 fixed drive bays	Octal set of 2x 3.5" SATA3 fixed drive bays
Power Supply	4x Redundant 2000W Titanium Level (96%+) Digital power supplies with I ² C & PMBus	4x Redundant 2000W Titanium Level (96%+) Digital power supplies with I ² C & PMBus
Cooling System	8x 80mm heavy duty fans with air shroud & PWM fan speed control	8x 80mm heavy duty fans with air shroud & PWM fan speed control
Form Factor	4U Rackmount 448 x 177 x 737mm (17.63" x 6.96" x 29")	4U Rackmount 448 x 177 x 737mm (17.63" x 6.96" x 29")

* Please check with your Supermicro sales representative and website for compatibility and configuration details



FatTwin™
2 DP Nodes, 6 GPU/Coprocessor per Node,
Front I/O, 16 DIMMs



FatTwin™
HADOOP, 4-Node, 12x 3.5" HDD per node
Front I/O, 16 DIMMs



MODEL	SYS-F648G2-FT+ SYS-F648G2-FC0+ SYS-F648G2-FTPT+ SYS-F648G2-FCOPT+	SYS-F618H6-FT+ SYS-F618H6-FTPT+
Processor Support	Quad set of Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s	Quad set of Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s
Key Applications	3D Rendering - CAD/CAM/CAE - Compute Intensive Application - Digital Content Creation - GPU server - High-performance computing	Hadoop
Outstanding Features	145W CPU support 8x 2.5" SAS/SATA drive bays - IPMI 2.0 + KVM with dedicated LAN - Up to 6 GPU/Coprocessor per node* (*4x K80 per node) - Broadcom 3008 controller (-FC0+/-FCOPT+)	4 nodes in 4U 12x 3.5" drives - IPMI 2.0 + KVM with dedicated LAN - Tool free drive trays and top cover - Enhance internal chassis airflow - Fan LED indicator
Serverboard	-FT+: SUPER●*X10DRFF-iG -FC0+: SUPER●*X10DRFF-CG -FTPT+: SUPER●*X10DRFF-iTG -FCOPT+: SUPER●*X10DRFF-CTG	-FT+: SUPER●*X10DRFF-CG -FTPT+: SUPER●*X10DRFF-CTG
Chipset	Intel® C612 Chipset	Intel® C612 chipset
System Memory (Max.)*	Twin set of up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots	Quad set of up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots
Expansion Slots	Twin set of 6 PCI-E 3.0 x16 FHFL Double Width; 2 PCI-E 3.0 x8 FH/HL	Quad set of 2 PCI-E 3.0 x8 LP
Onboard Storage Controller	Twin set of Intel® C612 controller for 10 SATA3 (6 Gbps) ports; RAID 0,1; -FC0+/-FCOPT+: Twin set of Broadcom 3008 SW controller for 8 SAS3 (12Gbs) ports; RAID 0,1,10	Quad set of Intel® C612 controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,10; Broadcom® 3008 SW controller for 8 SAS3 (12Gbs) ports; RAID 0,1,10
Connectivity	-FT+/-FC0+: Quad set of Dual LAN with Intel® i350 Gigabit Ethernet Controller; -FTPT+/FCOPT+: Quad set of Dual 10GBase-T with Intel® X540 10GbE Controller	FT+: Quad set of Dual LAN ports with Intel® i350 Gigabit Ethernet controller FTPT+: Quad set of Dual 10GBase-T with Intel® X540 10GbE controller
VGA/Audio	Twin set of AST2400 VGA	Quad set of AST2400 VGA
Management	Twin set of IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog	Quad set of IPMI 2.0+ KVM with dedicated LAN, SuperDoctor®, Watch Dog
Drive Bays	Twin set of 8x 2.5" hot-swap SATA3/SAS3 drive bays	Quad set of Up to 8 Fixed 3.5" SAS3/SATA3 + 4 Fixed 3.5" SATA3 HDDs per U and optional 2.5" drives mounted in the PCI-e slot
Peripheral Bays	N/A	Optional 2.5" drives mounted in the PCI-E slots
Power Supply	4x Redundant 2000W Titanium Level power supplies	2x 2000W Redundant Titanium Level (96%+) power supplies with iPC & PMBus
Cooling System	8x 80mm heavy duty fans with air shroud and PWM fan speed control and additional internal fans available	8x 80mm heavy duty fans with air shroud and PWM fan speed control
Form Factor	4U Rackmount 448 x 177 x 889mm (17.63" x 6.96" x 35")	4U Rackmount (Recommend 48" depth rack) 448 x 177 x 889mm (17.63" x 6.96" x 35")

* Please check with your Supermicro sales representative and website for compatibility and configuration details



FatTwin™

8-Node Rear I/O, 6x 2.5" HDD per Node



Rear View

MODEL	SYS-F618R2-RTN+ SYS-F618R2-RTPTN+	SYS-F618R2-RT+ SYS-F618R2-RTPT+	SYS-F618R2-RCO+ SYS-F618R2-RCOPT+
Processor Support	Octal set of Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s	Octal set of Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s	Octal set of Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s
Key Applications	- Cloud and Virtualization - Cloud Computing - Cluster Node - Data Center - HPC cluster computer nodes	- Cloud and Virtualization - Cloud Computing - Cluster Node - Data Center - HPC cluster computer nodes	- Cloud and Virtualization - Cloud Computing - Cluster Node - Data Center - HPC cluster computer nodes
Outstanding Features	1 Low-profile PCI-E x16 slot 145W CPU support 16 DIMM slots 2000W Redundant Titanium Level (96%+) high-efficiency power supplies 2x 1G or 10G Ethernet - NVMe Support	1 Low-profile PCI-E x16 & 1 MicroLP PCI-E x8 slots 1620W Redundant Platinum Level high-efficiency power supplies - IPMI 2.0 + KVM with dedicated LAN 16 DIMM slots 6x 2.5" hot-swap SATA3 drive bays per node	145W CPU support - Supports 16 DIMM DDR4 up to 2400MHz 2000W High Efficiency (96%) Titanium Level Redundant Power Supplies 6 x 2.5" Hot-Swap SAS/SATA drives (Per Node) - Optional NVMe support - Broadcom 3008 controller onboard
Serverboard	-RTN+: SUPER● X10DRFR-N -RTPTN+: SUPER● X10DRFR-NT	-RT+: SUPER● X10DRFR -RTPT+: SUPER● X10DRFR-NT	-RCO+: SUPER● X10DRFR-N -RCOPT+: SUPER● X10DRFR-NT
Chipset	Intel® C612 Chipset	Intel® C612 Chipset	Intel® C612 Chipset
System Memory (Max.)*	Octal set of up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots	Octal set of up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots	Octal set of up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots
Expansion Slots	Octal set of 1 PCI-E 3.0 x16 (LP) and 1 PCI-E 3.0 x8 (MicroLP)	Octal set of 1 PCI-E 3.0 x16 (LP) and 1 PCI-E 3.0 x8 (MicroLP)	Octal set of 1 PCI-E 3.0 x16 (LP) and 1 PCI-E 3.0 x8 (MicroLP)
Onboard Storage Controller	Octal set of Intel® C612 controller for 10 SATA3 (6Gbps) ports; RAID 0,1,5,10	Octal set of Intel® C612 controller for 6 SATA3 (6Gbps) ports; RAID 0,1,5,10	Octal set of Broadcom 3008 controller for 6 SAS 3.0 (12Gbps) ports; RAID 0,1,10;
Connectivity	-RTN+: Octal set of Dual LAN ports with Intel® i350 Gigabit Ethernet controller -RTPTN+: Octal set of Dual 10Gb Ethernet LAN with Intel® X540 and 10GBase-T Connector	-RT+: Octal set of Dual LAN ports with Intel® i350 Gigabit Ethernet controller -RTPT+: Octal set of Dual 10Gb Ethernet LAN with Intel® X540 and 10GBase-T Connector	-RCO+: Octal set of Dual LAN ports with Intel® i350 Gigabit Ethernet controller -RCOPT+: Octal set of Dual 10Gb Ethernet LAN with Intel® X540 and 10GBase-T Connector
VGA/Audio	Octal set of AST2400 VGA	Octal set of AST2400 VGA	Octal set of AST2400 VGA
Management	Octal set of IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog	Octal set of IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog	Octal set of IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog
Drive Bays	Octal set of 6x 2.5" hot-swap SATA3 drive bays; or, 4x SATA3 + 2x NVMe	Octal set of 6x 2.5" hot-swap SATA3 drive bays	Octal set of 6x SAS3/SATA3 or 4x SAS3/SATA3 + 2x NVMe optional
Power Supply	4x Redundant 2000W Titanium Level (96%+) power supplies with I²C & PMBus	4x Redundant 1620W Platinum Level (94%+) power supplies with I²C & PMBus	4x Redundant 2000W Titanium Level (96%+) power supplies with I²C & PMBus
Cooling System	Octal set of 3x 40mm counter-rotating fans with air shroud & PWM fan speed control	Octal set of 3x 40mm counter-rotating fans with air shroud & PWM fan speed control	Octal set of 3x 40mm counter-rotating fans with air shroud & PWM fan speed control
Form Factor	4U Rackmount 448 x 177 x 737mm (17.63" x 6.96" x 29")	4U Rackmount 448 x 177 x 737mm (17.63" x 6.96" x 29")	4U Rackmount 448 x 177 x 737mm (17.63" x 6.96" x 29")
* Please check with your Supermicro sales representative and website for compatibility and configuration details			



FatTwin™

8-Node Rear I/O
6x 2.5" HDD per Node



Rear View

MODEL	SYS-F618R2-RC1+ SYS-F618R2-RC1PT+	SYS-F618R2-R72+ SYS-F618R2-R72PT+
Processor Support	Octal set of Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s	Octal set of Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s
Key Applications	- Cloud and Virtualization - Cloud Computing - Cluster Node - Data Center - HPC cluster computer nodes	- Cloud and Virtualization - Cloud Computing - Cluster Node - Data Center - HPC cluster computer nodes
Outstanding Features	1 Low-profile PCI-E x16 & 1 MicroLP PCI-E x8 slots 16 DIMM slots 2000W Redundant Titanium Level high-efficiency power supplies 6 x 2.5" Hot-swap SAS/SATA drives (Per Node) - IPMI 2.0 + KVM with dedicated LAN - Broadcom 3108 controller for 8 SAS3 (12Gbps) hot-swappable drives 2 optional NVMe	1 Low-profile PCI-E x16 & 1 MicroLP PCI-E x8 slots 1620W Redundant Platinum Level high-efficiency power supplies - IPMI 2.0 + KVM with dedicated LAN 16 DIMM slots 6x 2.5" hot-swap SAS2/SATA drive bays per node
Serverboard	-RC1+: SUPER● X10DRFR-N -RC1PT+: SUPER● X10DRFR-NT	-R72+: SUPER● X10DRFR -R72PT+: SUPER● X10DRFR-NT
Chipset	Intel® C612 Chipset	Intel® C612 Chipset
System Memory (Max.)*	Octal set of up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots	Octal set of up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots
Expansion Slots	Octal set of 1 PCI-E 3.0 x16 (low-profile) and 1 PCI-E 3.0 x8 (MicroLP)	Octal set of 1 PCI-E 3.0 x16 (low-profile) and 1 PCI-E 3.0 x8 (MicroLP)
Onboard Storage Controller	Octal set of 6 SAS3 (12Gbps) ports; or 4x SAS3 + 2x NVMe optional SSDs; SAS3 support via Broadcom 3108; RAID 0,1,5,6,10,50	Octal set of Broadcom 2208 controller for 6 SAS 2.0 (6Gbps) ports; RAID 0,1,5,6,10,50
Connectivity	-RC1+: Octal set of Dual LAN ports with Intel® i350 Gigabit Ethernet controller -RC1PT+: Octal set of Dual 10Gb Ethernet LAN with Intel® X540 and 10GBase-T Connector	-R72+: Octal set of Dual LAN ports with Intel® i350 Gigabit Ethernet controller -R72PT+: Octal set of Dual 10Gb Ethernet LAN with Intel® X540 and 10GBase-T Connector
VGA/Audio	Octal set of AST2400 VGA	Octal set of AST2400 VGA
Management	Octal set of IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog	Octal set of IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog
Drive Bays	Octal set of 6x 2.5" hot-swap SAS3/SATA3 drive bays; or 4x SAS3 + 2x NVMe	Octal set of 6x 2.5" hot-swap SAS2/SATA3 drive bays
Power Supply	4x Redundant 2000W Titanium Level (96%+) power supplies with I²C & PMBus	4x Redundant 1620W Platinum Level (94%+) power supplies with I²C & PMBus
Cooling System	Octal set of 3x 40mm counter-rotating fans with air shroud & PWM fan speed control	Octal set of 3x 40mm counter-rotating fans with air shroud & PWM fan speed control
Form Factor	4U Rackmount 448 x 177 x 737mm (17.63" x 6.96" x 29")	4U Rackmount 448 x 177 x 737mm (17.63" x 6.96" x 29")

* Please check with your Supermicro sales representative and website for compatibility and configuration details



FatTwin™

4-Node Rear I/O
8 Hot-swap 3.5" HDDs per 1U



Rear View

MODEL	SYS-F628R3-RTB+ SYS-F628R3-RTBPT+ SYS-F628R3-RTBPTN+ SYS-F628R3-RTBN+	SYS-F628R3-RCOB+ SYS-F628R3-RC1B+ SYS-F628R3-RCOBPT+ SYS-F628R3-RC1BPT+	SYS-F628R3-R72B+ SYS-F628R3-R72BPT+
Processor Support	Quad set of Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s	Quad set of Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s	Quad set of Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s
Key Applications	- Cloud Computing - Cluster Node - Compute Intensive Storage Environments - Corporate Database - Data Center - Database Applications - Server Appliance - Virtualization Server - Web/Collocation Services	- Cloud Computing - Cluster Node - Compute Intensive Storage Environments - Corporate Database - Data Center - Database Applications - Server Appliance - Virtualization Server - Web/Collocation Services	- Cloud Computing - Cluster Node - Compute Intensive Storage Environments - Corporate Database - Data Center - Database Applications - Server Appliance - Virtualization Server - Web/Collocation Services
Outstanding Features	1 Low-profile PCI-E x16 & 1 MicroLP PCI-E x8 slots 145W CPU support 16 DIMM slots 8 Hot-swap 3.5" SATA/SAS drive bays - IPMI 2.0 management with dedicated LAN - NVMe Support	1 Low-profile PCI-E x16 & 1 MicroLP PCI-E x8 slots 145W CPU support 2 Gigabit Ethernet Ports 8 Hot-swap 3.5" SATA/SAS drive bays - IPMI 2.0 management with dedicated LAN - Broadcom 3108 controller (-RC1B+/-RC1BPT+) - Broadcom 3008 controller (-RCOB+/-RCOBPT+)	1 Low-profile PCI-E x16 & 1 MicroLP PCI-E x8 slots 145W CPU support 16 DIMM slots 8 Hot-swap 3.5" SATA/SAS drive bays - IPMI 2.0 management with dedicated LAN - Broadcom 2208 controller for 8 SAS2 hot-swappable drives
Serverboard	-RTB+: SUPER● X10DRFR -RTBPT+: SUPER● X10DRFR-NT -RTBPTN+: SUPER● X10DRFR-NT -RTBN+: SUPER● X10DRFR-N	-RCOB+: SUPER● X10DRFR-N -RC1B+: SUPER● X10DRFR-N -RCOBPT+: SUPER● X10DRFR-NT -RC1BPT+: SUPER● X10DRFR-NT	-R72B+: SUPER● X10DRFR -R72BPT+: SUPER● X10DRFR-NT
Chipset	Intel® C612 Chipset	Intel® C612 Chipset	Intel® C612 Chipset
System Memory (Max.)*	Quad set of up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots	Quad set of up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots	Quad set of up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots
Expansion Slots	Quad set of 1 PCI-E 3.0 x16 (low-profile) and 1 PCI-E 3.0 x8 (Micro LP)	Quad set of 1 PCI-E 3.0 x16 (low-profile) and 1 Micro LP PCI-E 3.0 x8	Quad set of 1 PCI-E 3.0 x16 (low-profile) and 1 Micro LP PCI-E 3.0 x8
Onboard Storage Controller	Quad set of Intel® C612 controller for 8 SATA3 or 6 SATA3 and 2 NVMe	Quad set of 8 SAS3 (12Gbps) ports; or 6 SAS3 + 2 NVMe SSDs; SAS3 support via Broadcom 3108/3008; RAID 0,1,5,6,10,50,60	Quad set of Broadcom 2208 controller for 8 SAS2 (6Gbps) ports; RAID 0,1,5,6,10,50,60
Connectivity	-RTB+/-RTBN+: Quad set of Dual LAN ports with Intel® i350 Gigabit Ethernet controller -RTBPT+/-RTBPTN+: Quad set of Dual 10Gb Ethernet LAN with Intel® X540 and 10GBase-T Connector	-RCOB+/-RC1B+: Quad set of Dual LAN ports with Intel® i350 Gigabit Ethernet controller -RCOBPT+/-RC1BPT+: Quad set of Dual 10Gb Ethernet LAN with Intel® X540 and 10GBase-T Connector	-R72B+: Quad set of Dual LAN ports with Intel® i350 Gigabit Ethernet controller -R72BPT+: Quad set of Dual 10Gb Ethernet LAN with Intel® X540 and 10GBase-T Connector
VGA/Audio	Quad set of AST2400 VGA	Quad set of AST2400 VGA	Quad set of AST2400 VGA
Management	Quad set of IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog	Quad set of IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog	Quad set of IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog
Drive Bays	Quad set of 8x 3.5" hot-swap SATA3 drive bays; or 6x SATA + 2x NVMe	Quad set of 8x 3.5" hot-swap SAS3/SATA drive bays; or 6x SAS/SATA + 2x NVMe optional	Quad set of 8x 3.5" hot-swap SAS2/SATA drive bays
Power Supply	Quad set of Redundant 1280W Platinum Level (95%+) Digital power supplies with iC & PMBus	4x Redundant 1280W Platinum Level (95%+) Digital power supplies with iC & PMBus	4x Redundant 1280W Platinum Level (95%+) Digital power supplies with iC & PMBus
Cooling System	Quad set of 2x 80mm heavy duty fans with air shroud & PWM fan speed control	Quad set of 2x 80mm heavy duty fans with air shroud & PWM fan speed control	Quad set of 2x 80mm heavy duty fans with air shroud & PWM fan speed control
Form Factor	4U Rackmount 448 x 177 x 737mm (17.63" x 6.96" x 29")	4U Rackmount 448 x 177 x 737mm (17.63" x 6.96" x 29")	4U Rackmount 448 x 177 x 737mm (17.63" x 6.96" x 29")
* Please check with your Supermicro sales representative and website for compatibility and configuration details			

FatTwin™

4 DP Nodes, 3 GPU/Coprocessor per Node, Front I/O, 16 DIMMs



MODEL	SYS-F628G2-FT+ SYS-F628G2-FC0+ SYS-F628G2-FTPT+ SYS-F628G2-FCOPT+	SYS-F628G3-FT+ SYS-F628G3-FC0+ SYS-F628G3-FTPT+ SYS-F628G3-FCOPT+
Processor Support	Quad set of Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s	Quad set of Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s
Key Applications	3D Rendering - CAD/CAM/CAE - Compute Intensive Application - Digital Content Creation - GPU server - High-performance computing	3D Rendering - CAD/CAM/CAE - Compute Intensive Application - Digital Content Creation - GPU server - High-performance computing
Outstanding Features	- Up to 3 GPU/Coprocessor per node* (*2x K80 per node) 145W CPU support - IPMI 2.0 + KVM with dedicated LAN - Up to 2 add-on cards - SAS3 (12Gbps) support	- Up to 3 GPU/Coprocessor per node* (*2x K80 per node) 145W CPU support - IPMI 2.0 + KVM with dedicated LAN - Up to 2 add-on cards - SAS3 (12Gbps) support
Serverboard	-FT+: SUPER● X10DRFF-iG -FC0+: SUPER● X10DRFF-CG -FTPT+: SUPER● X10DRFF-iTG -FCOPT+: SUPER● X10DRFF-CTG	-FT+: SUPER● X10DRFF-iG -FC0+: SUPER● X10DRFF-CG -FTPT+: SUPER● X10DRFF-iTG -FCOPT+: SUPER● X10DRFF-CTG
Chipset	Intel® C612 Chipset	Intel® C612 Chipset
System Memory (Max.)*	Quad set of up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots	Quad set of up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots
Expansion Slots	Quad set of 3 PCI-E 3.0 x16 FH/FL Double Width + 2 PCI-E 3.0 x8 LP	Quad set of 3 PCI-E 3.0 x16 FH/FL Double Width + 2 PCI-E 3.0 x8 LP
Onboard Storage Controller	-FT+/-FTPT+: Quad set of Intel® C612 controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10; -FC0+/-FCOPT+: Quad set of Broadcom 3008 SW controller for 8 SAS3 (12 Gbps) ports; RAID 0,1,10	-FT+/-FTPT+: Quad set of Intel® C612 controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10; -FC0+/-FCOPT+: Quad set of Broadcom 3008 SW controller for 8 SAS3 (12 Gbps) ports; RAID 0,1,10
Connectivity	-FT+/-FC0+: Quad set of Dual LAN with Intel® i350 Gigabit Ethernet Controller; -FTPT+/-FCOPT+: Quad set of Dual 10GBase-T with Intel® X540 10GbE Controller	-FT+/-FC0+: Quad set of Dual LAN with Intel® i350 Gigabit Ethernet Controller; -FTPT+/-FCOPT+: Quad set of Dual LAN with Intel® X540 10GBase-T Ethernet Controller
VGA/Audio	Quad set of AST2400 VGA	Quad set of AST2400 VGA
Management	Quad set of IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog	Quad set of IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog
Drive Bays	Quad set of 6x 2.5" hot-swap SATA3/SAS3 drive bays	Quad set of 2x 3.5" hot-swap SATA3/SAS3 drive bays
Power Supply	4x Redundant 2000W Titanium Level power supplies with I ² C & PMBus	4x Redundant 2000W Titanium Level power supplies with I ² C & PMBus
Cooling System	8x 80mm heavy duty fans with air shroud and PWM fan speed control and additional fans available	8x 80mm heavy duty fans with air shroud and PWM fan speed control and additional fans available
Form Factor	4U Rackmount: 448 x 177 x 889mm (17.63" x 6.96" x 35")	4U Rackmount: 448 x 177 x 889mm (17.63" x 6.96" x 35")

* Please check with your Supermicro sales representative and website for compatibility and configuration details

X11 8-Way/4-Way

NEW!

Intel® Xeon® Scalable Processors Supported



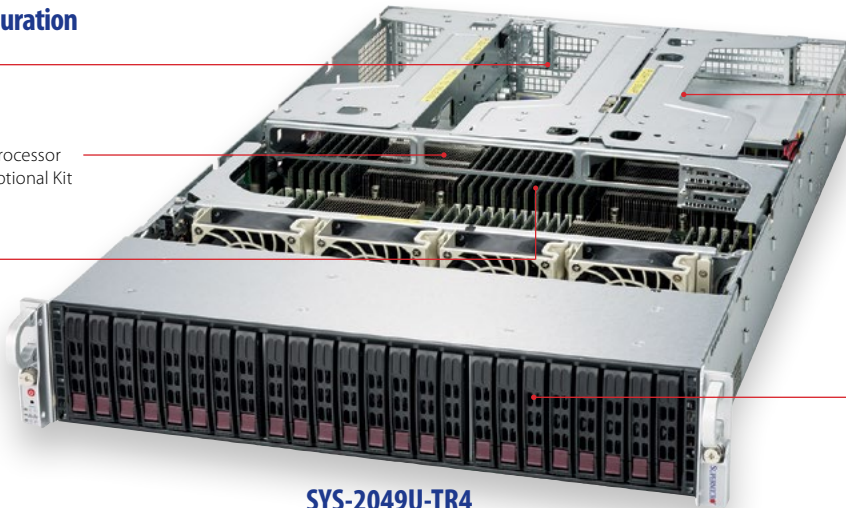
For SYS-7089P:

- Supports up to 12TB in 96 Memory DIMM Slots
- Up to 23 PCI-E 3.0 slots
- Provides up to 32 U.2 NVMe
- 4-port 10GBase-T Ethernet S10M
- Optional 8 GPU configuration

- 6 PCI-E 3.0 x16 Slots and
- 5 PCI-E 3.0 x8 Slots

- Quad Intel® Xeon® Scalable Processor
- Up to 165W or 205W with Optional Kit

- 48 DIMM Slots DDR4



- Redundant 1600W Titanium Level Power Supplies

- 24x 2.5" Hot-swap SATA3 Drive Bays
- Optional SAS3 RAID or up to 4 U.2 NVMe via AoC

SYS-2049U-TR4

7U 8-Way



SYS-7089P-TR4T

Ultra 2U 4-Way



SYS-2049U-TR4

8/4-Way MP

For Enterprise Mission Critical Applications and Advanced Analytics, Database, Virtualization, and Scale-Up HPC Workloads, with up to:

- Intel® Xeon® Scalable processors (Platinum 8100 / Gold 6100)
- 12TB in 96 DIMM slots (SYS-7089P), 6TB in 48 DIMM slots (SYS-2049U)
- 23 PCI-E 3.0 expansion slots, 32 U.2 NVMe or 8 GPU support (SYS-7089P)
- 11 PCI-E 3.0 expansion slots, 4 U.2 NVMe or 2 GPU support (SYS-2049U)
- 4x 10GBase-T ports with Intel® X550 10GbE controller (SYS-7089P)
- Redundant Titanium Level high-efficiency (96%+) power supplies
- Total Solution with Server Management Utilities including IPMI 2.0
- Server Management and remote KVM with dedicated LAN, Power Management



7U 8-Way

Up to 224 cores per system, 23 PCI-E 3.0 slots,
32 NVMe/16 SAS3 option



Ultra 2U 4-Way

48 DDR4 DIMMs
11 PCI-E 3.0 slot, SAS/NVMe available



MODEL	SYS-7089P-TR4T	SYS-2049U-TR4
Processor Support	Eight Intel® Xeon® Scalable processor with UPI up to 10.4GT/s	Eight Intel® Xeon® Scalable processor with UPI up to 10.4GT/s
Key Applications	- Virtualization - ERP, CRM - In-Memory Database Application - Research lab/National Lab - Scale-up HPC	- ERP, CRM - High End Enterprise Server - Business Intelligence - Scientific Virtualization - High Performance Computer Cluster (HPCC)
Outstanding Features	- Support up to 96 Memory DIMM Slots - Optional up to 8 GPU - Support up to 32 U.2 NVMe	4 Sockets, up to 112 cores per system 48 x DDR4 Memory DIMM slots, up to 6TB 4 NVMe SSD ports Ready - Up to 11 x PCIe 3.0 Slots 4 x GLAN + 1 Dedicated IPMI 2U Rack Mount Chassis
Serverboard	SUPER [®] X110PI-CPU	SUPER [®] X11QPH+
Chipset	Intel® C621 chipset	Intel® C621 chipset
System Memory (Max.)*	96 DDR4 Memory LRDIMMs and RDIMM support up to 12 TB	48 x DDR4 up to 6TB Memory (128GB 3DS LRDIMM), up to 2666MHz
Expansion Slots	23 PCI-E 3.0 slots includes 8 FH x16 PCI-E cards or 8 GPUs or 16 U.2 NVMe + 8 FHFL x16 PCI-E cards or 16 U.2 NVMe + 2 LP x8 (in x16 slot) PCI-E internal cards (storage module) + 5 FHFL x16 PCI-E cards (rear) (Up to 39 PCI-E 3.0 slots for OEM)	5 PCIe 3.0 x8; 6 PCIe 3.0 x16;
Onboard Storage Controller	Intel C621 including 2 SATA3 (SATA DOM), 2 M.2(SATA3/PCI-E), 8HDD(SATA3), 1 TPM Header	Intel® C621 controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10;
Connectivity	4-port 10GBASE-T Ethernet SIOM(Intel® X550 10GbE controller) Aspeed 2500 1 Port IPMI on AOM	4 x Gigabit Ethernet ports via AOC-2UR66-i4G
VGA/Audio	1 VGA by Aspeed AST2500 BMC	1 x VGA, 1 Aspeed AST2500 BMC;
Management	Aspeed 2400 1 Port IPMI on AOM	Intel® Node Manager; IPMI2.0; NMI; SMCBU and SMM; SuperDoctor® 5; Watchdog;
Drive Bays	16 x hot swap 2.5" SAS3 HDDs (w/ RAID cards) 8 x 2.5" or 6 x 3.5" internal HDDs(w/ RAID cards)	24 hot-swap 2.5" SAS3/SATA3 drives supported via optional Add-on RAID controller card; 4 Hybrid ports with NVMe supported via optional Add-on card
Peripheral Bays		N/A
Power Supply	5 x 1600W (3+1 Redundant), Titanium Level power supply w/ PMBus	1600W Redundant Titanium Level Power Supply;
Cooling System	8 92x92x76 mm, 10.5K-10.8K RPM, Counter-rotating Exhaust Hot-Swappable Rear Fans	4 X 8cm Heavy Duty Fan
Form Factor	7U Rackmountable Rackmount Kit: Comes with the system Enclosure: 448 x 310 x 733mm (17.63" x 12.2" x 28.87")	2U Enclosure: 437 x 89 x 780mm (17.2" x 3.5" x 30.7")

* Please check with your Supermicro sales representative and website for compatibility and configuration details



7U 8-Way

Up to 24TB memory capacity, 15 PCI-E 3.0 slots
16 NVMe/12SAS3 option



Ultra 2U 4-Way

48 DDR4 DIMMs
11PCI-E 3.0 slot, SAS/NVMe available



MODEL	SYS-7088B-TR4FT	SYS-2048U-RTR4
Processor Support	Eight Intel® Xeon® Processor E7-8800 v4/v3 product families supported, QPI up to 9.6GT/s	Quad Intel® Xeon® processor E5-4600 v4/v3 product families supported, QPI up to 9.6GT/s
Key Applications	- High End Enterprise Server - ERP, CRM - Database Applications - Research lab/National Lab - Virtualization - High-performance computing	- Virtualization - High End Enterprise Server - Cloud Computing - DataCenter Applications - HPC
Outstanding Features	- X10 EX 8-Way 192 cores - Up to 192 DDR4 Memory DIMMs - Up to 24TB (Broadwell), or 12 TB (Haswell) - Up to 15 PCI-E FH slots - Up to 16 optional U.2 NVMe support - Optional up to 8 GPU 4x 10G LAN + 1 dedicated IPMI	- Up to 88 cores per system 48 DDR4 up to 6TB Memory 4 NVMe SSD ports Ready - Up to 11 PCI-E3.0 Slots 4 GLAN + 1 Dedicated IPMI 2U Rack Mount Chassis
Serverboard	SUPERMICRO® X100BI-CPU	SUPERMICRO® X10QRH+
Chipset	Intel® C602J chipset	Intel® C612 chipset
System Memory (Max.)*	Up to 24TB DDR4 (128GB LRDIMM); 192 DIMM slots	Up to 6TB DDR4 (128GB LRDIMM); up to 2400MHz; 48 DIMM slots
Expansion Slots	15 PCI-E 3.0 FH slots (8 PCI-E 3.0 x16 + 7 PCI-E 3.0 x8) (16 2.5" NVMe optional support + 7 PCI-E slots)	9 PCI-E 3.0 x8; 2 PCI-E 3.0 x16
Onboard Storage Controller	Intel C602J including 2 SATA3 (SATA DOM) + 4 SATA2 (2 M.2, 2 HDD)	Intel® C612 for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10, including 8 HDD and 2 SATADOM
Connectivity	4-port 10GBase-T Ethernet SIOM (Intel® X550 10GbE controller); 1 Port IPMI	Quad LAN with Intel® i350 Gigabit Ethernet Controller
VGA/Audio	AST2400 VGA	AST2400 VGA
Management	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog
Drive Bays	12x hot swap 2.5" SAS3 HDDs (w/ RAID cards); 20x 2.5" or 6x 3.5" internal HDDs (w/ RAID cards)	24 hot-swap 2.5" SAS3 drive support via extra Add-on RAID controller card; 4 Hybrid ports with NVMe support via extra Add-on card
Peripheral Bays	7U Rackmountable Rackmount Kit	N/A
Power Supply	5x 1600W (N+1 Redundant) Titanium Level power supplies with PMBus	1000W Redundant Titanium Level power supplies; 2000W power supply options available
Cooling System	8x 9cm Hot-Swappable Counter-Rotating Rear Fans	4x 8cm heavy duty fans with speed control
Form Factor	7U Rackmount 448 x 310 x 733mm (17.63" x 12.2" x 28.87") Gross Weight: 208lbs (94.35kg)	2U Rackmount 437 x 89 x 780mm (17.2" x 3.5" x 30.7")

* Please check with your Supermicro sales representative and website for compatibility and configuration details



EX 4-Way

E7-8800/4800 v4/v3,
32 DDR4 DIMMs in 2U



EX 4-Way

E7-8800/4800 v4/v3,
32 DDR4 DIMMs in 2U



MODEL	SYS-8028B-TR4F	SYS-8028B-C0R4FT
Processor Support	Quad Intel® Xeon® Processor E7-8800/4800 v4/v3 product families supported, QPI up to 9.6GT/s	Quad Intel® Xeon® Processor E7-8800/4800 v4/v3 product families supported, QPI up to 9.6GT/s
Key Applications	• Compute Intensive Application • Mission-critical applications • Enterprise Server	• Finance, Banking, e-Commerce • Compute Intensive Application • Mission-critical applications • Enterprise Server
Outstanding Features	• Up to 96 cores per system • Up to 4TB DDR4 memory capacity in 32 DIMM slots • 2U 4-way system • 4 PCI-E 3.0 support • 1400W Redundant Platinum Level Digital (94%+) high-efficiency power supplies with I²C & PMBus	• Up to 96 cores per system • Up to 4TB DDR4 memory capacity in 32 DIMM slots • 2U 4-way system • 4 PCI-E 3.0 support • Broadcom 3008 on board • 1400W Redundant Platinum Level Digital (94%+) high-efficiency power supplies with I²C & PMBus
Serverboard	SUPER [®] X10QBL-4	SUPER [®] X10QBL-4CT
Chipset	Intel® C602J chipset	Intel® C602J chipset
System Memory (Max.)*	Up to 4TB ECC DDR4 (128GB LRDIMM), speed up to 1866MHz; 32 DIMM slots	Up to 4TB ECC DDR4 (128GB LRDIMM), speed up to 1866MHz; 32 DIMM slots
Expansion Slots	2 PCI-E 3.0 x16 LP slot; 2 PCI-E 3.0 x8 LP slot	2 PCI-E 3.0 x16 LP slot; 2 PCI-E 3.0 x8 LP slot
Onboard Storage Controller	Intel® C602J for 2 SATA3 (6 Gbps) ports; 4 SATA2 (3 Gbps); RAID 0,1,5,10	Intel® C602J for 2 SATA3 (6 Gbps) ports; 4 SATA2 (3 Gbps); RAID 0,1,5,10; Broadcom 3008 SW controller on board
Connectivity	Dual LAN with Intel® i350 Gigabit Ethernet Controller	Dual LAN with Intel® X540 10GBase-T Ethernet Controller
VGA/Audio	AST2400 VGA	AST2400 VGA
Management	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog
Drive Bays	6x 3.5" hot-swap SATA drive bays	6x 3.5" hot-swap SAS2 drive bays (through SAS2 Backplane)
Peripheral Bays	N/A	N/A
Power Supply	1400W Redundant Platinum Level Digital (94%+) high-efficiency power supplies	1400W Redundant Platinum Level Digital (94%+) high-efficiency power supplies
Cooling System	3x 8cm heavy duty fans with speed control	3x 8cm heavy duty fans with speed control
Form Factor	2U Rackmount 437 x 89 x 709mm (17.2" x 3.5" x 27.9")	2U Rackmount 437 x 89 x 709mm (17.2" x 3.5" x 27.9")

* Please check with your Supermicro sales representative and website for compatibility and configuration details



EX 4-Way
E7-8800/4800 v4/v3,
32 DDR4 DIMMs in 4U Tower/Rackmount



EX 4-Way
E7-8800/4800 v4/v3,
32 DDR4 DIMMs in 4U Tower/Rackmount



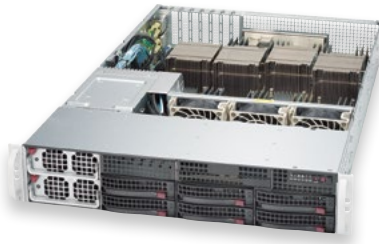
MODEL	SYS-8048B-TR4F	SYS-8048B-C0R4FT
Processor Support	Quad Intel® Xeon® Processor E7-8800/4800 v4/v3 product families supported, QPI up to 9.6GT/s	Quad Intel® Xeon® Processor E7-8800/4800 v4/v3 product families supported, QPI up to 9.6GT/s
Key Applications	• Compute Intensive Application • Mission-critical applications • Enterprise Server	• Finance, Banking, e-Commerce • Compute Intensive Application • Mission-critical applications • Enterprise Server
Outstanding Features	• Up to 96 cores per system • Up to 4TB DDR4 memory capacity in 32 DIMM slots • 4U 4-way system • 4 PCI-E 3.0 support • 1400W Redundant Platinum Level Digital (94%+) high-efficiency power supplies with I²C & PMBus	• Up to 96 cores per system • Up to 4TB DDR4 memory capacity in 32 DIMM slots • 4U 4-way system • 4 PCI-E 3.0 support • Broadcom 3008 on board • 1400W Redundant Platinum Level Digital (94%+) high-efficiency power supplies with I²C & PMBus
Serverboard	SUPER [®] X10QBL-4	SUPER [®] X10QBL-4CT
Chipset	Intel® C602J chipset	Intel® C602J chipset
System Memory (Max.)*	32 DIMM slots, Up to 4TB ECC DDR4 (128GB LRDIMM), speed up to 1866MHz; 32 DIMM slots	32 DIMM slots, Up to 4TB ECC DDR4 (128GB LRDIMM), speed up to 1866MHz; 32 DIMM slots
Expansion Slots	2 PCI-E 3.0 x16 FH slot; 2 PCI-E 3.0 x8 FH slot	2 PCI-E 3.0 x16 FH slot; 2 PCI-E 3.0 x8 FH slot
Onboard Storage Controller	Intel® C602J for 2 SATA3 (6 Gbps) ports; 4 SATA2 (3 Gbps); RAID0,1,5,10	Intel® C602J for 2 SATA3 (6 Gbps) ports; 4 SATA2 (3 Gbps); RAID0,1,5,10; Broadcom 3008 SW controller on board
Connectivity	Dual LAN with Intel® i350 Gigabit Ethernet Controller	Dual LAN with Intel® X540 10GBase-T Ethernet Controller
VGA/Audio	AST2400 VGA	AST2400 VGA
Management	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog
Drive Bays	5x 3.5" hot-swap SATA/SAS drive bays	5x 3.5" hot-swap SAS2 drive bays (through SAS2 Backplane)
Peripheral Bays	3x 5.25" peripheral bays; Optional 2x M28SAB-OEM (SAS3 Mobile Rack)	3x 5.25" peripheral bays; Optional 2x M28SAB-OEM (SAS3 Mobile Rack)
Power Supply	1400W Redundant Platinum Level Digital (94%+) high-efficiency power supplies with I²C & PMBus	1400W Redundant Platinum Level Digital (94%+) high-efficiency power supplies with I²C & PMBus
Cooling System	3x 9cm mid fans + 3x 8cm rear fans with speed control	3x 9cm mid fans + 3x 8cm rear fans with speed control
Form Factor	4U Rackmount/Tower 462 x 178 x 721mm (18.2" x 7" x 28.4")	4U Rackmount/Tower 462 x 178 x 721mm (18.2" x 7" x 28.4")

* Please check with your Supermicro sales representative and website for compatibility and configuration details



EX 4-Way

E7-8800/4800 v4/v3, 32 DDR3 DIMMs in 2U



EX 4-Way

E7-8800/4800 v4/v3, 32 DDR3 DIMMs in 4U Tower/Rackmount



MODEL	SYS-8028B-TR3F SYS-8028B-COR3FT	SYS-8048B-TR3F SYS-8048B-COR3FT
Processor Support	Quad Intel® Xeon® Processor E7-8800/4800 v4/v3 product families supported, QPI up to 9.6GT/s	Quad Intel® Xeon® Processor E7-8800/4800 v4/v3 product families supported, QPI up to 9.6GT/s
Key Applications	• Compute Intensive Application • Mission-critical applications • Enterprise Server	• Compute Intensive Application • Mission-critical applications • Enterprise Server
Outstanding Features	• Up to 96 cores per system • Up to 2TB DDR3 memory capacity in 32 DIMM slots • 2U 4-way system • 4 PCI-E 3.0 support • -COR3FT: Broadcom 3008 on board • 1400W Redundant Platinum Level Digital (94%+) high-efficiency power supplies with I²C & PMBus	• Up to 96 cores per system • Up to 2TB DDR3 memory capacity in 32 DIMM slots • 4U 4-way system • 4 PCI-E 3.0 support • -COR3FT: Broadcom 3008 on board • 1400W Redundant Platinum Level Digital (94%+) high-efficiency power supplies with I²C & PMBus
Serverboard	-TR3F: SUPER [®] X10QBL -COR3FT: SUPER [®] X10QBL-CT	-TR3F: SUPER [®] X10QBL -COR3FT: SUPER [®] X10QBL-CT
Chipset	Intel® C602J chipset	Intel® C602J chipset
System Memory (Max.)*	Up to 2TB ECC DDR3 (64GB LRDIMM), speed up to 1600MHz (32GB LRDIMM); 32 DIMM slots	32 DIMM slots, Up to 2TB ECC DDR3 (64GB LRDIMM), up to 1600MHz (32GB LRDIMM); 32 DIMM slots
Expansion Slots	2 PCI-E 3.0 x16 LP slot; 2 PCI-E 3.0 x8 LP slot	2 PCI-E 3.0 x16 FH slot; 2 PCI-E 3.0 x8 FH slot
Onboard Storage Controller	Intel® C602J for 2 SATA3 (6 Gbps) ports; -TR3F: 4 SATA2 (3 Gbps); RAID0,1,5,10; -COR3FT: 4 SATA2 (3 Gbps); RAID0,1,5,10; Broadcom 3008 SW controller on board	Intel® C602J for 2 SATA3 (6 Gbps) ports; -TR3F: 4 SATA2 (3 Gbps); RAID0,1,5,10; -COR3FT: 4 SATA2 (3 Gbps); RAID0,1,5,10; Broadcom 3008 SW controller on board
Connectivity	-TR3F: Dual LAN with Intel® i350 Gigabit Ethernet Controller; -COR3FT: Dual LAN with Intel® X540 10GBase-T Ethernet Controller	-TR3F: Dual LAN with Intel® i350 Gigabit Ethernet Controller; -COR3FT: Dual LAN with Intel® X540 10GBase-T Ethernet Controller
VGA/Audio	AST2400 VGA	AST2400 VGA
Management	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog
Drive Bays	6x 3.5" hot-swap SATA drive bays	5x 3.5" hot-swap SATA/SAS drive bays
Peripheral Bays	N/A	3x 5.25" peripheral bays; Optional 2x M28SAB-OEM (SAS3 Mobile Rack)
Power Supply	1400W Redundant Platinum Level Digital (94%+) high-efficiency power supplies	1400W Redundant Platinum Level Digital (94%+) high-efficiency power supplies with I ² C & PMBus
Cooling System	3x 8cm heavy duty fans with speed control	3x 9cm mid fans + 3x 8cm rear fans with speed control
Form Factor	2U Rackmount 437 x 89 x 709mm (17.2" x 3.5" x 27.9")	4U Rackmount/Tower 462 x 178 x 721mm (18.2" x 7" x 28.4")

* Please check with your Supermicro sales representative and website for compatibility and configuration details



EX 4-Way

E7-8800/4800 v4/v3, 96 DDR4 DIMMs,
up to 12TB memory capacity, 11 PCI-E 3.0 slots; SAS2 (6 Gbps)



EX 4-Way

E7-8800/4800 v4/v3, 96 DDR4 DIMMs,
up to 12TB memory capacity, 11 PCI-E 3.0 slots; SAS3 (12 Gbps)



MODEL	SYS-8048B-TR4FT	SYS-4048B-TR4FT
Processor Support	Quad Intel® Xeon® Processor E7-8800/4800 v4/v3 product families supported, QPI up to 9.6GT/s	Quad Intel® Xeon® Processor E7-8800/4800 v4/v3 product families supported, QPI up to 9.6GT/s
Key Applications	• Business Intelligence • ERP, CRM • Database Applications • Research lab/National Lab • Virtualization	• Business Intelligence • ERP, CRM • Database Applications • Research lab/National Lab • Virtualization
Outstanding Features	• Up to 96 CPU cores per system • Up to 12TB in 96 memory DIMMs • Up to 11 PCI-E 3.0 slots • Up to 24 3.5" HDDs, SAS 2.0 (6Gbps) • Up to 4x 1620W Redundant Platinum Level (94%) power supplies	• Up to 96 CPU cores per system • Up to 12TB in 96 memory DIMMs • Up to 11 PCI-E 3.0 slots • Up to 48 SAS 3.0 (12Gbps) 2.5" drive bays • Up to 4x 1620W Redundant Platinum Level (94%) power supplies
Serverboard	SUPER● X10QBi	SUPER● X10QBi
Chipset	Intel® C602J chipset	Intel® C602J chipset
System Memory (Max.)*	Up to 12TB ECC DDR4 with 128GB 3DS LRDIMM (8x memory module board: X10QBi-MEM2), speed up to 1866MHz; 96 DIMM slots	Up to 12TB ECC DDR4 with 128GB 3DS LRDIMM (8x memory module board: X10QBi-MEM2), speed up to 1866MHz; 96 DIMM slots
Expansion Slots	11 PCI-E 3.0 slots (4x PCI-E3.0 x16 + 7x PCI-E3.0 x8) with 4 memory module boards; 8 PCI-E 3.0 slots (4x PCI-E3.0 x16 + 4x PCI-E3.0 x8) with 8 memory module boards	11 PCI-E 3.0 slots (4x PCI-E3.0 x16 + 7x PCI-E3.0 x8) with 4 memory module boards; 8 PCI-E 3.0 slots (4x PCI-E3.0 x16 + 4x PCI-E3.0 x8) with 8 memory module boards
Onboard Storage Controller	Intel® C602J for 2 SATA3 (6 Gbps) ports and 4 SATA2 (3 Gbps)	Intel® C602J for 2 SATA3 (6 Gbps) ports and 4 SATA2 (3 Gbps)
Connectivity	Dual 10GBase-T ports with Intel® X540 controller on AOM card	Dual 10GBase-T ports with Intel® X540 controller on AOM card
VGA/Audio	AST2400 VGA	AST2400 VGA
Management	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog
Drive Bays	24 hot-swap 3.5" SAS2 drive support via extra Add-on RAID controller card	24 hot-swap 2.5" SAS3 drive support via extra Add-on RAID controller card; optional: up to 48 hot-swap 2.5" SAS3 drives support via extra backplane + add-on RAID controller card
Peripheral Bays	N/A	N/A
Power Supply	(N+1) Redundant 1620W up to 4 Platinum Level (94%) power supplies	(N+1) Redundant 1620W up to 4 Platinum Level (94%) power supplies
Cooling System	4x 9cm mid fans + 3x 8cm rear fans with speed control; optional 2 additional 8cm rear fans	4x 9cm mid fans + 3x 8cm rear fans with speed control; optional 2 additional 8cm rear fans
Form Factor	4U Rackmount 437 x 178 x 846mm (17.2" x 7" x 33.3")	4U Rackmount 437 x 178 x 795mm (17.2" x 7" x 31.3")

* Please check with your Supermicro sales representative and website for compatibility and configuration details



EX 4-Way

E7-8800/4800 v4/v3, 96 DDR3 DIMMs,
up to 6TB memory capacity, 11 PCI-E 3.0 slots; SAS2 (6 Gbps)



EX 4-Way

E7-8800/4800 v4/v3, 96 DDR3 DIMMs,
up to 6TB memory capacity, 11 PCI-E 3.0 slots; SAS3 (12 Gbps)



MODEL	SYS-8048B-TRFT	SYS-4048B-TRFT
Processor Support	Quad Intel® Xeon® Processor E7-8800/4800 v4/v3 product families supported, QPI up to 9.6GT/s	Quad Intel® Xeon® Processor E7-8800/4800 v4/v3 product families supported, QPI up to 9.6GT/s
Key Applications	- Business Intelligence - ERP CRM - Database - Virtualization - Research Lab/National Lab	- Business Intelligence - ERP CRM - Database - Virtualization - Research Lab/National Lab
Outstanding Features	- Up to 96 CPU cores per system - Up to 6TB in 96 memory DIMMs - Up to 11 PCI-E 3.0 slots - Up to 24 SAS 2.0 (6Gbps) 3.5" drive bays - Independent power and cooling controls - Up to 4x 1620W Redundant Platinum Level (94%) power supplies	- Up to 96 CPU cores per system - Up to 6TB in 96 memory DIMMs - Up to 11 PCI-E 3.0 slots - Up to 48 SAS 3.0 (12Gbps) 2.5" drive bays - Independent power and cooling controls - Up to 4x 1620W Redundant Platinum Level (94%) power supplies
Serverboard	SUPER [®] X10QBi / X10QBi-MEM1 / AOM-X10QBi-A	SUPER [®] X10QBi / X10QBi-MEM1 / AOM-X10QBi-A
Chipset	Intel® C602J chipset	Intel® C602J chipset
System Memory (Max.)*	Up to 6TB ECC DDR3 RDIMM/LRDIMM (8x memory module board: X10QBi-MEM2), speed up to 1866MHz; 96 DIMM slots	Up to 6TB ECC DDR3 RDIMM/LRDIMM (8x memory module board: X10QBi-MEM2), speed up to 1866MHz; 96 DIMM slots
Expansion Slots	11 PCI-E 3.0 slots (4x PCI-E3.0 x16 + 7x PCI-E3.0 x8) with 4 memory module boards; 8 PCI-E 3.0 slots (4x PCI-E3.0 x16 + 4x PCI-E3.0 x8) with 8 memory module boards	11 PCI-E 3.0 slots (4x PCI-E3.0 x16 + 7x PCI-E3.0 x8) with 4 memory module boards; 8 PCI-E 3.0 slots (4x PCI-E3.0 x16 + 4x PCI-E3.0 x8) with 8 memory module boards
Onboard Storage Controller	Intel® C602J for 2 SATA3 (6 Gbps) ports and 4 SATA2 (3 Gbps)	Intel® C602J for 2 SATA3 (6 Gbps) ports and 4 SATA2 (3 Gbps)
Connectivity	Dual 10GBase-T ports with Intel® X540 controller on AOM card	Dual 10GBase-T ports with Intel® X540 controller on AOM card
VGA/Audio	AST2400 VGA	AST2400 VGA
Management	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog
Drive Bays	24 hot-swap 3.5" SAS2 drive support via extra Add-on RAID controller card	24 hot-swap 2.5" SAS3 drive support via extra Add-on RAID controller card; optional: up to 48 hot-swap 2.5" SAS3 drives support via extra backplane + add-on RAID controller card
Peripheral Bays	N/A	N/A
Power Supply	(N+1) Redundant 1620W Platinum Level (94%) power supplies	(N+1) Redundant 1620W Platinum Level (94%) power supplies
Cooling System	4x 9cm mid fans + 3x 8cm rear fans with speed control; optional 2 additional 8cm rear fans	4x 9cm mid fans + 3x 8cm rear fans with speed control; optional 2 additional 8cm rear fans
Form Factor	4U Rackmount 437 x 178 x 846mm (17.2" x 7" x 33.3")	4U Rackmount 437 x 178 x 795mm (17.2" x 7" x 31.3")

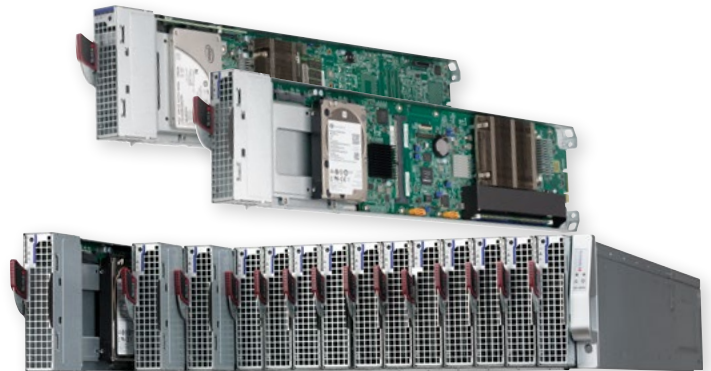
* Please check with your Supermicro sales representative and website for compatibility and configuration details

MicroBlade™

- Best density and power-efficiency with up to 56 UP or 28 DP server nodes
 - M.2 NVMe SSD and HW SAS3 RAID support
- Ethernet switches supporting 1G, 2.5G and 10G downlinks with 96%+ fewer cables
 - Redundant 2200W Titanium Level (96%+ efficiency) digital power supplies
 - 1200W Battery Backup Power (BBP) modules



6U MicroBlade



3U MicroBlade

MicroBlade™ Servers

Dual Intel® Xeon® Processor E5-2600 v4/v3

DP with Quad 1G



MBI-6128R-T2

DP with Dual 10G



MBI-6128R-T2X

Intel® Xeon® Processor E3-1500 v5 (1585/1578L)

2 UP, Dual 10G, NVMe



MBI-6219G-T8HX/T7LX

UP, Dual 10G, NVMe



MBI-6119G-T8HX/T7LX

Intel® Xeon® processor D-1500 (1581/1541)

2 UP with Dual 10G



MBI-6218G-T81X/T41X

UP with Dual 10G



MBI-6118G-T81X/T41X

Intel® Xeon® Processor E3-1200 v6/v5

UP with 2 SAS3



MBI-6119G-C2

UP with 4 SAS3



MBI-6119G-C4

UP with 4 SATA3



MBI-6119G-T4

2 UP with 2 SATA3



MBI-6219G-T

Intel® Xeon® Processor E3-1200 v4/v3

UP with 2x 3.5" SATA3



MBI-6118D-T2/T2H

UP with 4x 2.5" SATA3



MBI-6118D-T4/T4H

Intel® Atom™ Processor (C2750/C2550)

4 UP with Dual 2.5G



MBI-6418A-T7H

4 UP with Dual 2.5G



MBI-6418A-T5H

*When comparing to an equivalent 1U rackmount solution deployed in a 42U rack.

MICROBLADE™ ENCLOSURES

Ultra high density and Performance/Watt in 6U/3U

- 112 Intel® Atom® processor (C2750/C2550) nodes
- 56/28/14 Intel® Xeon® processor D-1500 (1581/1541) UP nodes
- 56/28/14 Intel® Xeon® processor E3-1500 v5 (1585/1578L) UP nodes
- 56/28/14 Intel® Xeon® processor E3-1200 v6/v5/v4/v3 UP nodes
- 28/14 Intel® Xeon® processor E5-2600 v4/v3 DP nodes

High-Efficiency Power Supply

- Titanium Level (96%+ efficiency) 2200W/2000W digital power supplies with N+N or N+1 redundancy
- Platinum Level (94%+ efficiency) 1600W digital power supplies with N+N or N+1 redundancy
- 2000W DC power supplies with N+N or N+1 redundancy



Model	MBE-314E-420(D)/416/220(D)	MBE-628L-816/416
Blade Server	Up to 14 hot-swappable blade servers	Up to 28 hot-swappable blade servers
Node Support	Intel® Xeon® processor based blades	Intel® Atom® processor based blades
Networking	Up to 2 hot-swappable 10G/1G switches	Up to 4 hot-swappable 2.5G/1G switches
Management	Single hot-swappable management module providing remote KVM and IPMI 2.0 functionalities	Single hot-swappable management module providing remote KVM and IPMI 2.0 functionalities
Power Supply	• -420(D): Up to 4 hot-swappable 2000W; (D) for DC power • -416: Up to 4 hot-swappable 1600W • -220(D): Up to 2 hot-swappable 2000W; (D) for DC power	• -816: Up to 8 hot-swappable 1600W • -416: Up to 4 hot-swappable 1600W
Cooling Design	4 cooling fans	8 cooling fans
LED Indicators	Power LED, Fault LED	Power LED, Fault LED
Rack Unit	3U	6U
Dimensions (H x W x D)	• -420(D)/220(D): 5.21" (132.5mm) x 17.67" (449mm) x 36.10" (917mm) • -416: 10.43" (265mm) x 17.67" (449mm) x 34.43" (875mm)	10.43" (265mm) x 17.67" (449mm) x 34.43" (875mm)

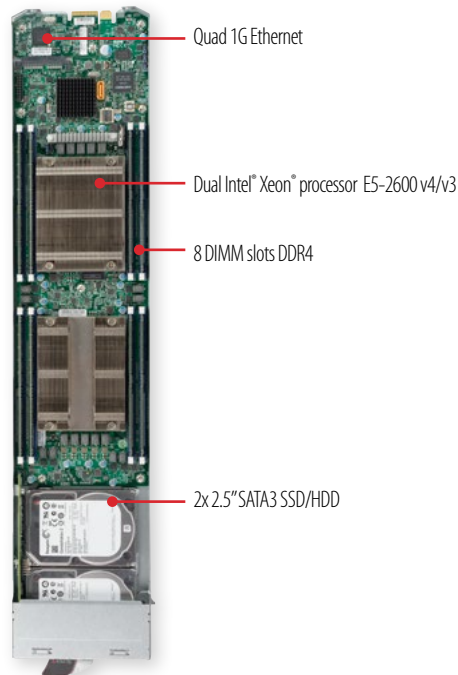


Model	MBE-628E-820(D)/816/420(D)/416	MBE-628E-822/622/422
Blade Server	Up to 28 hot-swappable blade servers	Up to 28 hot-swappable blade servers
Node Support	Intel® Xeon® processor based blades	Intel® Xeon® processor based blades
Networking	Up to 2 hot-swappable 10G/1G switches	Up to 2 hot-swappable 10G/1G switches
Management	Up to 2 hot-swappable management modules providing remote KVM and IPMI 2.0 functionalities	Up to 2 hot-swappable management modules providing remote KVM and IPMI 2.0 functionalities
Power Supply	• -820(D): Up to 8 hot-swappable 2000W; (D) for DC power • -816: Up to 8 hot-swappable 1600W • -420(D): Up to 4 hot-swappable 2000W; (D) for DC power • -416: Up to 4 hot-swappable 1600W	• -822/622/422: Up to 8 hot-swappable 2200W • -628EB-422: Up to 4 hot-swappable 1200W BBP® modules
Cooling Design	8 cooling fans	8 cooling fans
LED Indicators	Power LED, Fault LED	Power LED, Fault LED
Rack Unit	6U	6U
Dimensions (H x W x D)	• -820(D)/420(D): 10.43" (265mm) x 17.67" (449mm) x 36.10" (917mm) • -816/416: 10.43" (265mm) x 17.67" (449mm) x 34.43" (875mm)	10.43" (265mm) x 17.67" (449mm) x 34.43" (875mm)

MICROBLADE™ X10 DP SERVERS

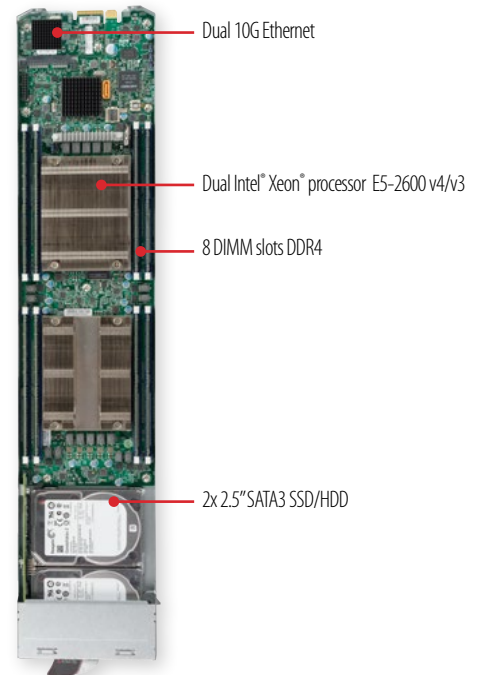
Dual Intel® Xeon® Processor E3-2600 v5 v4/v3 Product Families Supported

Single-node DP with Quad Gigabit Ethernet



MBI-6128R-T2

Single-node DP with Dual 10G Ethernet



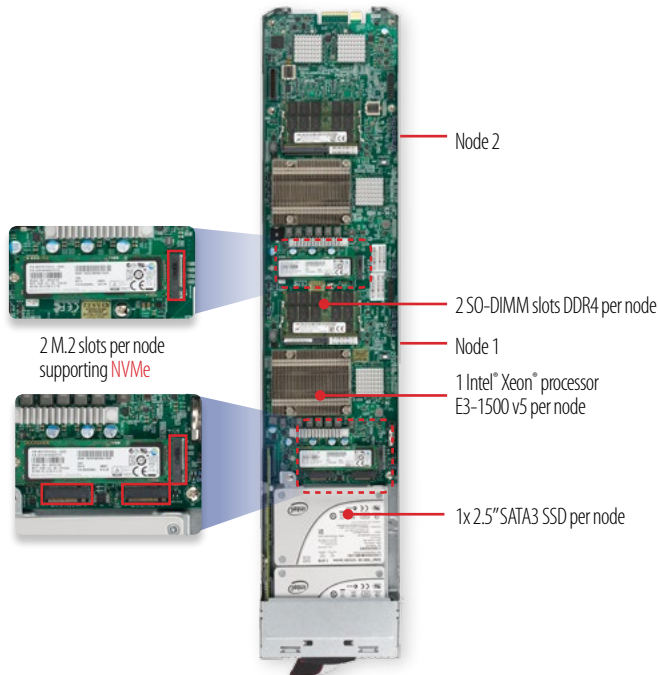
MBI-6128R-T2X

Model	MBI-6128R-T2	MBI-6128R-T2X
Server Nodes/42U Rack	196	196
Processor	Dual Intel® Xeon® processor E5-2600 v4/v3 product families with QPI up to 9.6GT/s	Dual Intel® Xeon® processor E5-2600 v4/v3 product families with QPI up to 9.6GT/s
Chipset	Intel® C612	Intel® C612
Memory Support	8 DDR4-2400MHz ECC VLP RDIMM slots	8 DDR4-2400MHz ECC VLP RDIMM slots
Max Memory	256GB	256GB
Expansion & Drive Bays	• 2x 2.5" SATA3 SSD/HDD • 1x SuperDOM Port	• 2x 2.5" SATA3 SSD/HDD • 1x SuperDOM Port
Storage RAID	Intel® PCH SATA3 RAID 0,1	Intel® PCH SATA3 RAID 0,1
Ethernet Interface	Quad-port Gigabit LAN	Dual-port 10G LAN
Management	• IPMI 2.0 • KVM over IP • Virtual Media over LAN • Supermicro RSD	• IPMI 2.0 • KVM over IP • Virtual Media over LAN • Supermicro RSD
LED Indicators	• Power LED • UID / KVM LED • Network Activity LED • Fault LED	• Power LED • UID / KVM LED • Network Activity LED • Fault LED
Dimensions (H x W x D)	1.2" (30.48mm) x 4.94" (125.48mm) x 23.2" (589.28mm)	1.2" (30.48mm) x 4.94" (125.48mm) x 23.2" (589.28mm)
Chassis	6U: • MBE-628E-416 • MBE-628E-816 • MBE-628EB-422 • MBE-628EB-822 3U: • MBE-314E-420(D) • MBE-314E-416	6U: • MBE-628E-420 • MBE-628E-820(D) • MBE-628EB-622 3U: • MBE-314E-220(D)

MICROBLADE™ X11 UP SERVERS

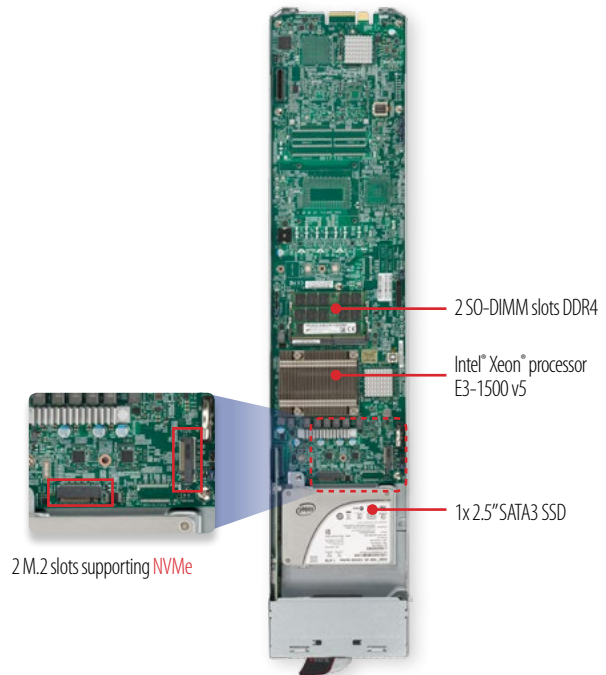
Intel® Xeon® Processor E3-1500 v5 (1585/1578L) Product Family Supported

Dual-node UP with Dual 10G Ethernet and M.2 NVMe



MBI-6219G-T8HX/T7LX

Single-node UP with Dual 10G Ethernet and M.2 NVMe



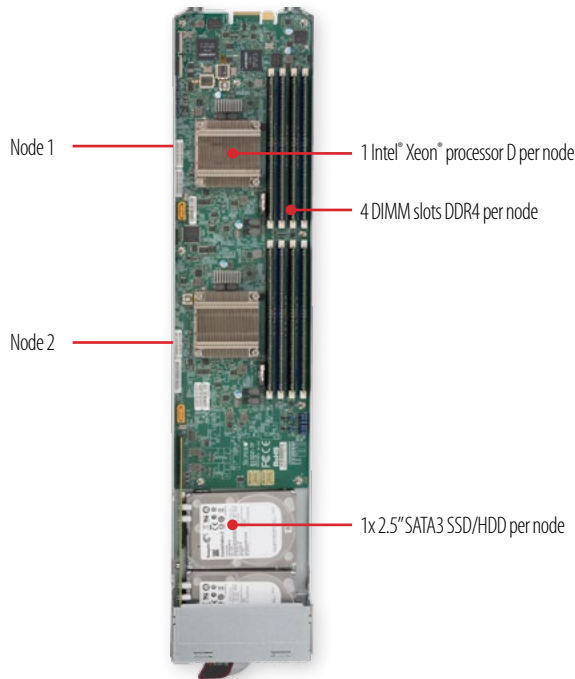
MBI-6119G-T8HX/T7LX

Model	MBI-6219G-T8HX/T7LX		MBI-6119G-T8HX/T7LX	
Server Nodes/42U Rack	392		196	
Processor	-T8HX: Intel® Xeon® processor E3-1585 v5, 4 core, 65W with Integrated Intel® Iris™ Pro Graphics P580 per node -T7LX: Intel® Xeon® processor E3-1578L v5, 4 core, 45W with Integrated Intel® Iris™ Pro Graphics P580 per node		-T8HX: Intel® Xeon® processor E3-1585 v5, 4 core, 65W with Integrated Intel® Iris™ Pro Graphics P580 -T7LX: Intel® Xeon® processor E3-1578L v5, 4 core, 45W with Integrated Intel® Iris™ Pro Graphics P580	
Chipset	Intel® C236		Intel® C236	
Memory Support	2 DDR4-2400MHz ECC SO-DIMM slots per node		2 DDR4-2400MHz ECC SO-DIMM slots	
Max Memory	32GB per node		32GB	
Expansion & Drive Bays	• 1x 2.5" SATA3 SSD per node • 1x SuperDOM Port per node • 2x M.2 Slots (PCI-E 3.0 x4) supporting NVMe per node		• 1x 2.5" SATA3 SSD • 1x SuperDOM Port • 2x M.2 Slots (PCI-E 3.0 x4) supporting NVMe	
Storage RAID	N/A		N/A	
Ethernet Interface	Dual-port 10G LAN per node		Dual-port 10G LAN	
Management	IPMI 2.0, KVM over IP, Virtual Media over LAN, Supermicro RSD		IPMI 2.0, KVM over IP, Virtual Media over LAN, Supermicro RSD	
LED Indicators	• Power LED • Fault LED • Network Activity LED • UID / KVM LED		• Power LED • Fault LED • Network Activity LED • UID / KVM LED	
Dimensions (H x W x D)	1.2" (30.48mm) x 4.94" (125.48mm) x 23.2" (589.28mm)		1.2" (30.48mm) x 4.94" (125.48mm) x 23.2" (589.28mm)	
Chassis	6U: • MBE-628E-416 • MBE-628E-816 • MBE-628EB-422 • MBE-628EB-822 3U: • MBE-314E-420(D) • MBE-314E-416		6U: • MBE-628E-416 • MBE-628E-816 • MBE-628EB-422 • MBE-628EB-822 3U: • MBE-314E-420(D) • MBE-314E-416	

MICROBLADE™ X10 UP SERVERS

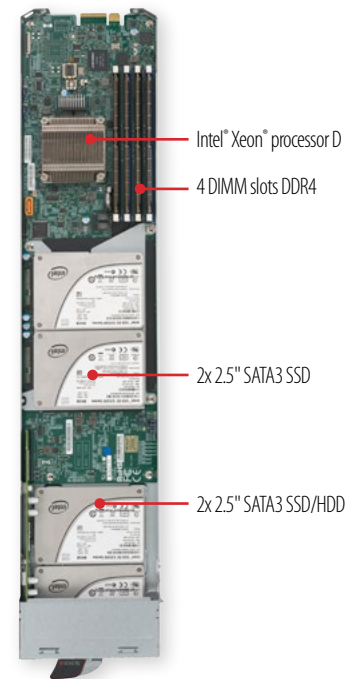
Intel® Xeon® processor D-1500 (1581/1541) Product Family Supported

Dual-node UP with Dual 10G Ethernet



MBI-6218G-T81X/T41X

Single-node UP with Dual 10G Ethernet



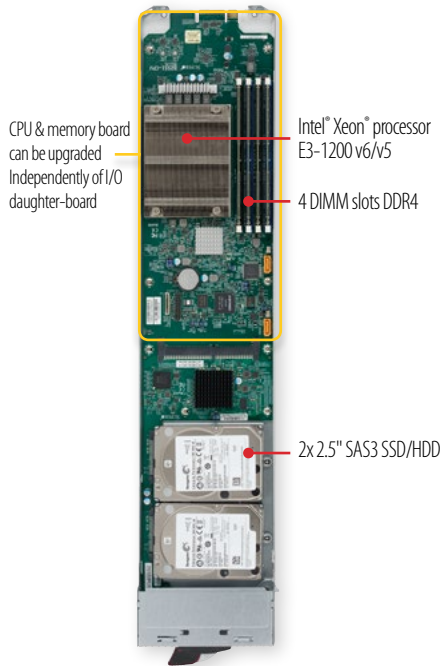
MBI-6118G-T81X/T41X

Model	MBI-6218G-T81X/ T41X		MBI-6118G-T81X/ T41X	
Server Nodes/42U Rack	392		196	
Processor	-T81X: Intel® Xeon® processor D-1581 per node, 16 cores, 65W	-T41X: Intel® Xeon® processor D-1541 per node, 8 cores, 45W	-T81X: Intel® Xeon® processor D-1581, 16 cores, 65W	-T41X: Intel® Xeon® processor D-1541, 8 cores, 45W
Chipset	System-on-Chip		System-on-Chip	
Memory Support	4 DDR4-2400MHz ECC VLP RDIMM slots per node		4 DDR4-2400MHz ECC VLP RDIMM slots	
Max Memory	128GB per node		128GB	
Expansion & Drive Bays	1x 2.5" SATA3 SSD/HDD per node 1x SuperDOM Port per node		4x 2.5" SATA3 SSD or 2x SSD/HDD + 2x SSD 1x SuperDOM Port	
Storage RAID	N/A		Intel® SATA3 RAID 0,1,5,10	
Ethernet Interface	Dual-port 10G LAN per node		Dual-port 10G LAN	
Management	- IPMI 2.0 - KVM over IP - Virtual Media over LAN		- IPMI 2.0 - KVM over IP - Virtual Media over LAN	
LED Indicators	- Fault LED - Network Activity LED - Power LED - UID / KVM LED		- Fault LED - Network Activity LED - Power LED - UID / KVM LED	
Dimensions (H x W x D)	1.2" (30.48mm) x 4.94" (125.48mm) x 23.2" (589.28mm)		1.2" (30.48mm) x 4.94" (125.48mm) x 23.2" (589.28mm)	
Chassis	6U: - MBE-628E-416 - MBE-628E-816 - MBE-628EB-422 - MBE-628EB-822	- MBE-628E-420 - MBE-628E-820(D) - MBE-628EB-622 - MBE-314E-420(D) - MBE-314E-220(D) - MBE-314E-416	6U: - MBE-628E-416 - MBE-628E-816 - MBE-628EB-422 - MBE-628EB-822	- MBE-628E-420 - MBE-628E-820(D) - MBE-628EB-622 - MBE-314E-220(D) - MBE-314E-416

MICROBLADE™ X11 UP SERVERS

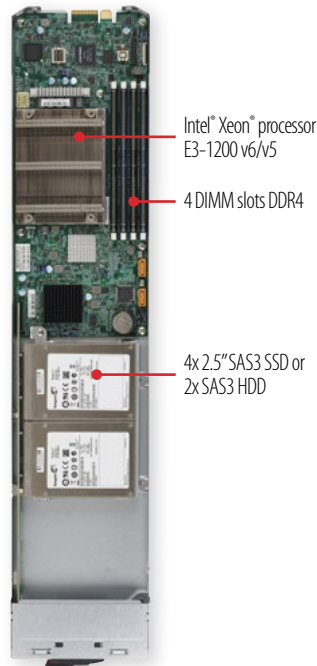
Intel® Xeon® Processor E3-1200 v6/v5 Product Families Supported

Single-node UP with 2 SAS3



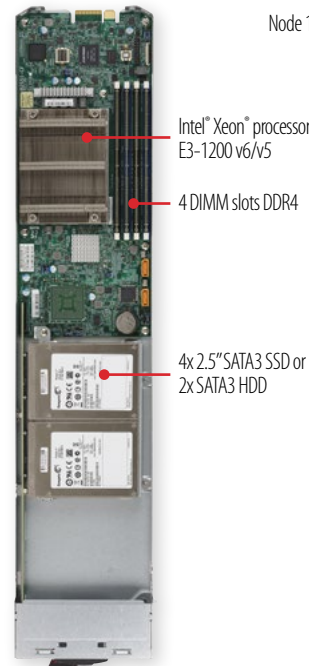
MBI-6119G-C2

Single-node UP with 4 SAS3



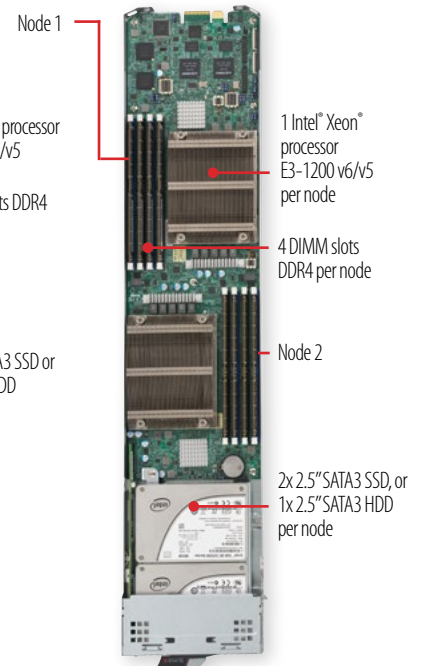
MBI-6119G-C4

Single-node UP with 4 SATA3



MBI-6119G-T4

Dual-node UP with 2 SATA3



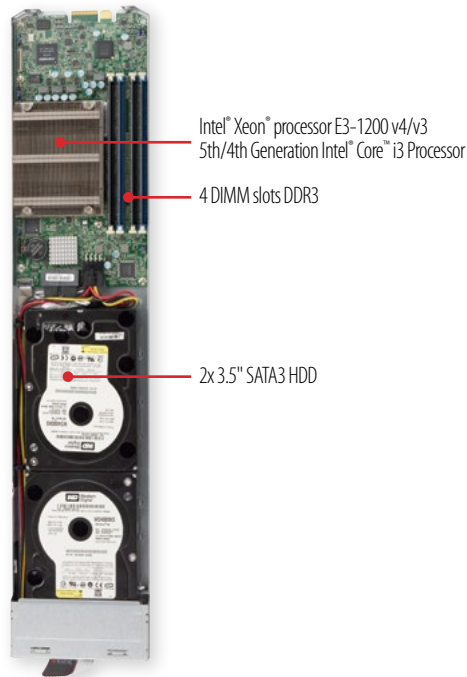
MBI-6219G-T

Model	MBI-6119G-C2/C4		MBI-6119G-T4	MBI-6219G-T
Server Nodes/42U Rack	196		196	392
Processor	Intel® Xeon® processor E3-1200 v6/v5 product families		Intel® Xeon® processor E3-1200 v6/v5 product families	Intel® Xeon® processor E3-1200 v6/v5 product families per node
Chipset	Intel® C236		Intel® C236	Intel® C236
Memory Support	4 DDR4-2400MHz ECC VLP UDIMM slots		4 DDR4-2400MHz ECC VLP UDIMM slots	4 DDR4-2400MHz ECC VLP UDIMM slots per node
Max Memory	64GB		64GB	64GB per node
Expansion & Drive Bays	-C2: • 2x 2.5" SAS3 SSD/HDD • 2x SuperDOM Port	-C4: • 2x 2.5" SAS3 HDD or 4x 2.5" SAS3 SSD • 2x SuperDOM Port	-T4: • 2x 2.5" SATA3 HDD or 4x 2.5" SATA3 SSD • 2x SuperDOM Port	-T: • 1x 2.5" SATA3 HDD or 2x 2.5" SATA3 SSD per node
Storage RAID	Broadcom® 3008 SAS3/SATA3 RAID 0,1,1E,10		Intel® PCH SATA3 RAID 0,1,5,10	Intel® PCH SATA3 RAID 0,1
Ethernet Interface	Dual-port Gigabit LAN		Dual-port Gigabit LAN	Dual-port Gigabit LAN per node
Management	IPMI 2.0, KVM over IP, Virtual Media over LAN		IPMI 2.0, KVM over IP, Virtual Media over LAN	IPMI 2.0, KVM over IP, Virtual Media over LAN
LED Indicators	• Power LED • Fault LED • Network Activity LED • UID / KVM LED		• Power LED • Fault LED • Network Activity LED • UID / KVM LED	• Power LED • Fault LED • Network Activity LED • UID / KVM LED
Dimensions (H x W x D)	1.2" (30.48mm) x 4.94" (125.48mm) x 23.2" (589.28mm)		1.2" (30.48mm) x 4.94" (125.48mm) x 23.2" (589.28mm)	1.2" (30.48mm) x 4.94" (125.48mm) x 23.2" (589.28mm)
Chassis	6U: • MBE-628E-416 • MBE-628E-816 • MBE-628EB-422 • MBE-628EB-822	• MBE-628E-420 • MBE-628E-820(D) • MBE-628EB-622	6U: • MBE-628E-416 • MBE-628E-816 • MBE-628EB-422 • MBE-628EB-822	• MBE-628E-420 • MBE-628E-820(D) • MBE-628EB-622
	3U: • MBE-314E-420(D) • MBE-314E-416	• MBE-314E-220(D)	3U: • MBE-314E-420(D) • MBE-314E-416	• MBE-314E-220(D)

MICROBLADE™ X10 UP SERVERS

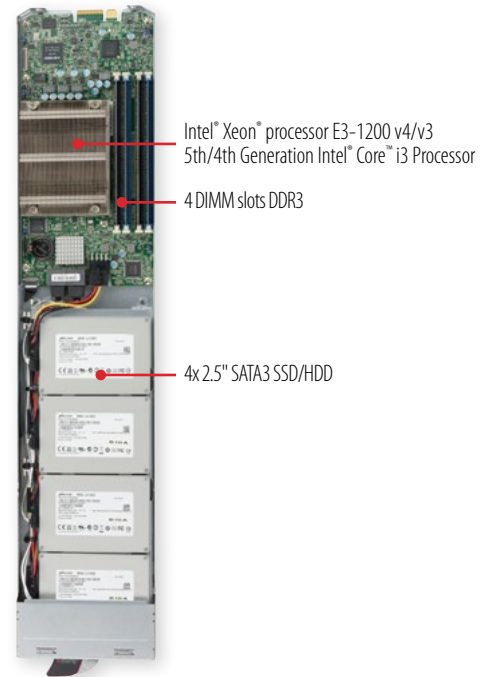
Intel® Xeon® Processor E3-1200 v4/v3 Product Families Supported

Single-node UP with 2x 3.5" SATA3



MBI-6118D-T2/T2H

Single-node UP with 4x 2.5" SATA3



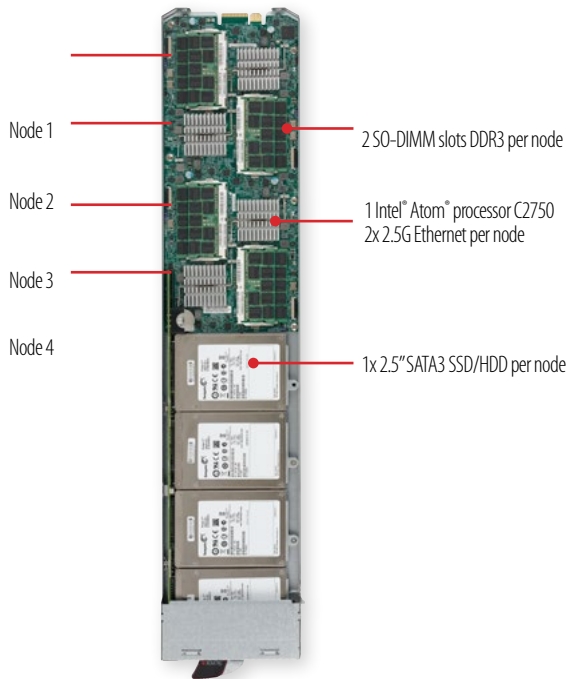
MBI-6118D-T4/T4H

Model	MBI-6118D-T2/T2H	MBI-6118D-T4/T4H
Server Nodes/42U Rack	196	196
Processor	- Intel® Xeon® processor E3-1200 v4/v3 product families 5th/4th Generation Intel® Core™ i3 Processor Series	- Intel® Xeon® processor E3-1200 v4/v3 product families 5th/4th Generation Intel® Core™ i3 Processor Series
Chipset	-T2: Intel® C224 -T2H: Intel® C226	-T4: Intel® C224 -T4H: Intel® C226
Memory Support	4 DDR3-1600MHz ECC VLP UDIMM slots	4 DDR3-1600MHz ECC VLP UDIMM slots
Max Memory	32GB	32GB
Expansion & Drive Bays	2x 3.5" SATA3 HDD	4x 2.5" SATA3 SSD/HDD
Storage RAID	Intel® PCH SATA3 RAID 0,1	Intel® PCH SATA3 RAID 0,1,5,10
Ethernet Interface	Dual-port Gigabit LAN	Dual-port Gigabit LAN
Management	- IPMI 2.0 - KVM over IP - Virtual Media over LAN	- IPMI 2.0 - KVM over IP - Virtual Media over LAN
LED Indicators	- Fault LED - Network Activity LED - Power LED - UID / KVM LED	- Fault LED - Network Activity LED - Power LED - UID / KVM LED
Dimensions (H x W x D)	1.2" (30.48mm) x 4.94" (125.48mm) x 23.2" (589.28mm)	1.2" (30.48mm) x 4.94" (125.48mm) x 23.2" (589.28mm)
Chassis	6U: - MBE-628E-416 - MBE-628E-816 - MBE-628EB-422 - MBE-628EB-822 3U: - MBE-314E-420(D) - MBE-314E-416	6U: - MBE-628E-420 - MBE-628E-820(D) - MBE-628EB-622 - MBE-628EB-822 3U: - MBE-314E-220(D) - MBE-314E-416

MICROBLADE™ X10 UP SERVERS

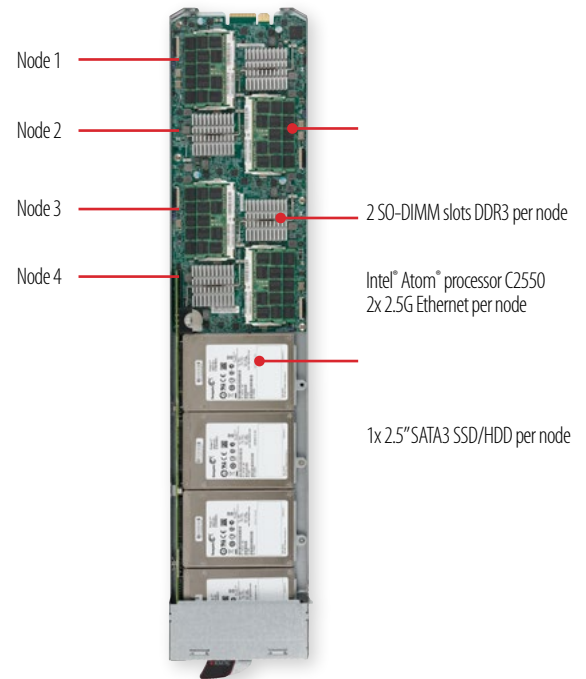
Intel® Atom® Processor (C2750/C2550) Product Families Supported

Quad-node UP with Dual 2.5G Ethernet



MBI-6418A-T7H

Quad-node UP with Dual 2.5G Ethernet



MBI-6418A-T5H

Model	MBI-6418A-T7H	MBI-6418A-T5H
Server Nodes/42U Rack	784	784
Processor	Intel® Atom® Processor C2750 per node, 8 cores, 2.4GHz)	Intel® Atom® Processor C2550 per node, 4 cores, 2.4GHz
Chipset	System-on-Chip	System-on-Chip
Memory Support	2 DDR3-1600/1333MHz ECC SO-DIMM slots per node	2 DDR3-1600/1333MHz ECC SO-DIMM slots per node
Max Memory	32GB per node	32GB per node
Expansion & Drive Bays	1x 2.5" SATA3 SSD/HDD per node 1x SuperDOM Port per node	1x 2.5" SATA3 SSD/HDD per node 1x SuperDOM Port per node
Storage RAID	N/A	N/A
Ethernet Interface	Dual-port 2.5G LAN per node	Dual-port 2.5G LAN per node
Management	- IPMI 2.0 - KVM over IP - Virtual Media over LAN	- IPMI 2.0 - KVM over IP - Virtual Media over LAN
LED Indicators	- Power LED - UID / KVM LED - Network Activity LED - Fault LED	- Power LED - UID / KVM LED - Network Activity LED - Fault LED
Dimensions (H x W x D)	1.2" (30.48mm) x 4.94" (125.48mm) x 23.2" (489.28mm)	1.2" (30.48mm) x 4.94" (125.48mm) x 23.2" (489.28mm)
Chassis	6U: • MBE-628L-416 • MBE-628L-816	6U: • MBE-628L-416 • MBE-628L-816

NETWORKING SOLUTIONS

Switch and Enclosure Compatibility Matrix

Model	Speed	Protocol	8U		6U			4U	3U
			SBE-820C(B)	SBE-820J(B)	MBE-628E(B)	MBE-628B	MBE-628L	SBE-414E(B)	MBE-314E
SBM-IBH-E3616	100G	InfiniBand EDR	● Up to 1	-	-	-	-	-	-
SBM-OPA-C4020	100G	Intel® Omni-Path	● Up to 1	-	-	-	-	-	-
SBM-25G-100	25G	Ethernet	-	● Up to 2	-	-	-	TBD	-
MBM-XEM-001	10G	Ethernet	● Up to 2	● Up to 4	● Up to 2	● Up to 2	● Up to 4	● Up to 2	● Up to 2
MBM-XEM-002	10G	Ethernet	● Up to 2	● Up to 4	● Up to 2	● Up to 2	● Up to 4	● Up to 2	● Up to 2
MBM-XEM-003	10G	Ethernet	● Up to 2	● Up to 4	● Up to 2	● Up to 2	-	● Up to 2	● Up to 2
MBM-GEM-001	1G	Ethernet	● Up to 2	● Up to 4	● Up to 2	● Up to 2	● Up to 4	● Up to 2	● Up to 2
MBM-GEM-004	1G	Ethernet	● Up to 2	● Up to 4	-	● Up to 2	-	● Up to 2	● Up to 2

In some configurations, up to 2 different switch models can be deployed on a single enclosure. Due to the complexity of switch configuration and compatibility, please confirm with your Supermicro sales representative.

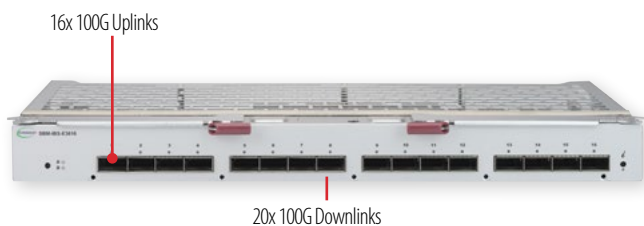
NEW GENERATION INFINIBAND AND INTEL® OMNI-PATH SWITCHES

Available only on the New Generation 8U SuperBlade enclosure and selected server blades, the new InfiniBand EDR and Intel® Omni-Path switches deliver unmatched network performance for a wide range of HPC and cloud applications. An interface matching networking add-on-module (Mezzanine card) is required on each server blade to complete the deployment.

100G (InfiniBand EDR) Switch



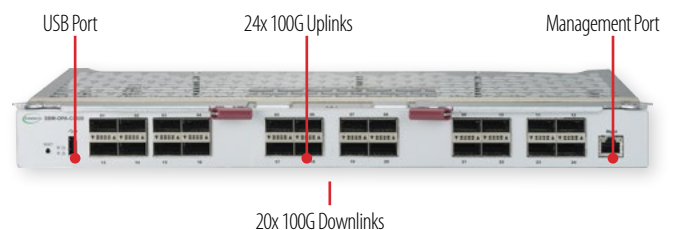
SBM-IBS-E3616



100G (Intel® Omni-Path) Switch



SBM-OPA-C4020



MicroBlade

Model	SBM-IBS-E3616	SBM-OPA-C4020
General Specifications	20x 100G InfiniBand EDR downlinks 16x 100G Intel® Omni-Path Architecture uplinks	20x 100G Intel® Omni-Path Architecture downlinks 14x 100G Intel® Omni-Path Architecture uplinks 1 USB port 1 management port
Switching Capacity	7.2Tbps	9.6Tbps
Physical Layer Features	100G optical/copper QSFP28	100G optical/copper QSFP28
System Management	- Industry Standard CLI - Web-based management interface — HTTP/HTTPS	- Syslog - SSH - SNMP v1/v2/v3 - NTP - Content-sensitive "Help" - Auto Command completion - TFTP Client - XML-RPC

NEW GENERATION ETHERNET SWITCHES

25G Ethernet Switch with RoCE & NPAR

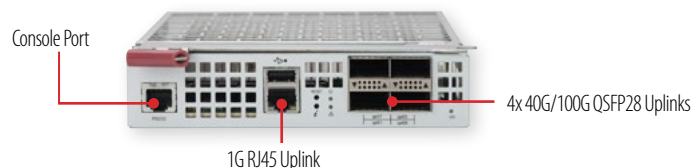
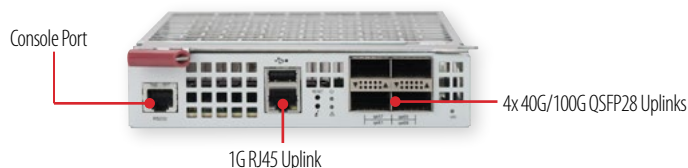


SBM-25G-100

10G Ethernet Switch with RoCE & NPAR



MBM-XEM-003



Model	SBM-25G-100	MBM-XEM-003
General Specifications	20x 25G Ethernet downlinks 4x 100G/40G Ethernet uplinks, each can split into 4x 25G uplinks with optional fan-out cables 1x Gigabit Ethernet uplink 1 console port	56x 10G Ethernet downlinks 4x 100G/40G Ethernet uplinks, each can split into 4x 25G uplinks through fan-out cable 1x Gigabit Ethernet uplink 1 console port
Switching Capacity	3Tbps	1.9Tbps
Physical Layer Features	100G/40G optical/copper QSFP28 - Gigabit Ethernet copper RJ45	100G/40G optical/copper QSFP28 - Gigabit Ethernet copper RJ45
Layer 2 Features	4K VLANs - Spanning Tree Protocol (802.1D) - Rapid Spanning Tree Protocol (802.1w) - IEEE 802.1Q VLANs/ port-based VLANs - Multiple Spanning Tree Protocol (802.1s) - Jumbo frames up to 9KB	- IEEE 802.1AX LAG - IEEE 802.3ac VLAN tagging - IEEE 802.1AB Link Layer Discovery Protocol (LLDP)
Adv. Layer 2 Features	- Storm control - Unidirectional Link Detection (UDLD) - Uplink Failure Detection (UFD)	- Flow control - Static MAC filtering - Port mirroring
Data Center Features	L2 Data Center Bridging and CEE v1.01 DCB for PFC/ETS	
System Management	- Industry Standard CLI - Web-based management interface – HTTP/HTTPS - Syslog - SSH - SNMP v1/v2/v3 - NTP - Content-sensitive "Help" - Auto Command completion - TFTP Client - XML-RPC	

ADD-ON MODULES

Supporting New Generation SuperBlade Servers

The new generation SuperBlade is complemented with a range of brand new add-on-modules for feature customizations and future upgrade needs. Focusing on new networking and storage capabilities, SuperBlade's future-proof architecture provides field upgradability, serviceability and better investment protection.

100G EDR InfiniBand



AOC-IBH-X4ES

100G Intel® Omni-Path



AOC-OPH-WFR

Dual-Port 25G Ethernet



AOC-B25G-M2S

Broadcom® 3108 SAS3 RAID



AOM-B3108-H8-B11

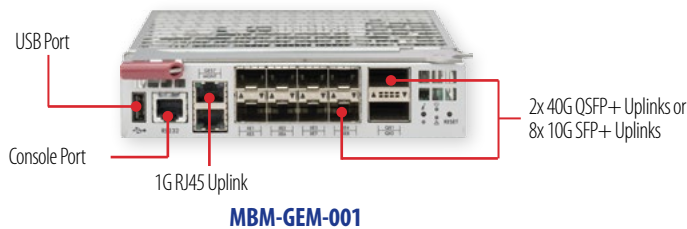
4x M.2 Slots



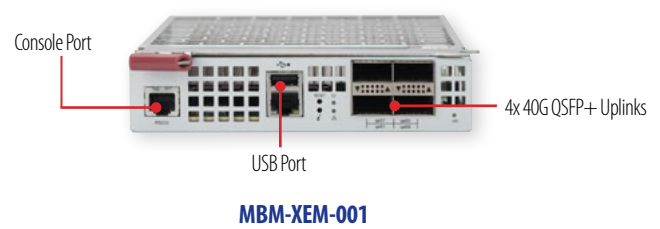
AOM-B-4M

NEW GENERATION INFINIBAND AND INTEL® OMNI-PATH SWITCHES

2.5G/1G Ethernet SDN Switch (OpenFlow)



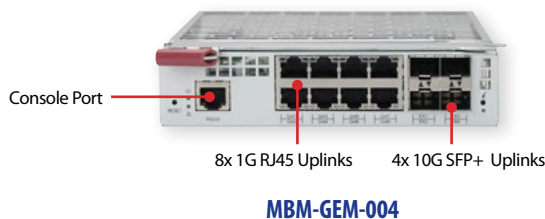
10G/2.5G/1G Ethernet SDN Switch (OpenFlow)



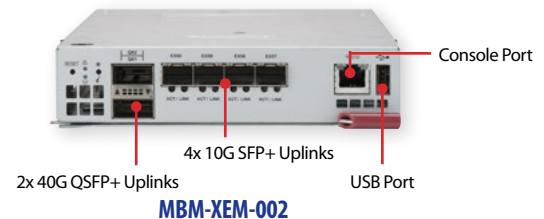
Model	MBM-GEM-001	MBM-XEM-001
General Specifications	56x 2.5G/1G Ethernet downlinks 1 Gigabit Ethernet, 2x 40G Ethernet or 8x 10G Ethernet uplinks 1 console port 1 USB port	56x 10G/2.5G/1G Ethernet downlinks 4x 40G Ethernet uplinks 1 console port 1 USB port
Switching Capacity	442Gbps	960Gbps
Physical Layer Features	40G optical/copper QSFP+ 10G optical/copper SFP+ - Gigabit Ethernet copper RJ45	40G optical/copper QSFP+
Layer 2 Features	4K VLANs - Spanning Tree Protocol (802.1D) - Rapid Spanning Tree Protocol (802.1w) - IEEE 802.1Q VLANs/ port-based VLANs - Multiple Spanning Tree Protocol (802.1s) - Jumbo frames up to 9KB	- IEEE 802.1AX LAG - IEEE 802.3ac VLAN tagging - IEEE 802.1AB Link Layer Discovery Protocol (LLDP)
Advanced Layer 2 Features	- Storm control - Unidirectional Link Detection (UDLD) - Uplink Failure Detection (UFD)	- Flow control - Static MAC filtering - Port mirroring
Data Center Features	L2 Data Center Bridging and CEE v1.01 DCB for PFC/ETS	
System Management	- Industry Standard CLI - Web-based management interface – HTTP/HTTPS - Syslog - SSH - SNMP v1/v2/v3 - NTP	- Content-sensitive “Help” - Auto Command completion - TFTP Client - XML-RPC

NEW GENERATION ETHERNET SWITCH

Gigabit Ethernet Layer L2 Switch with M-LAG



10G/2.5G/1G Ethernet L3 Switch with M-LAG



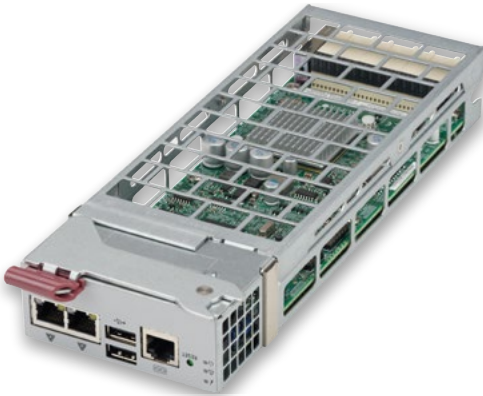
Model	MBM-GEM-004	MBM-XEM-002
General Specifications	40x 1G Ethernet downlinks 8x 1G Ethernet RJ45 and optional 4x 10G Ethernet Uplinks 1 console port	56x 10G/2.5G/1G Ethernet downlinks 2x 40G Ethernet QSFP+ and optional 4x 10G Ethernet uplinks 1 console port 1 USB port
Switching Capacity	176Gbps	1280Gbps
Physical Layer Features	- Optional 10G optical/copper SFP+ - Gigabit Ethernet copper RJ45	40Gbps optical/copper QSFP+ - Optional 10G Ethernet optical/copper SFP+
Layer 2 Features	4K VLANs, Jumbo frames up to 9KB - IEEE 802.1Q VLANs/ port-based VLANs - Spanning Tree Protocol (802.1D) - IEEE 802.1AB Link Layer Discovery Protocol (LLDP) - IEEE 802.3ad with LACP - Multiple Spanning Tree Protocol (802.1s)	- Multi-Chassis Link Aggregation (M-LAG) - MAC Address: -XEM-002: 128K -GEM-004: 64K - Rapid Spanning Tree Protocol (802.1W)
Advanced Layer 2 Features	- Storm control - Port mirroring - Flow control	Uplink Failure Detection
Layer 3 Features	N/A	OSPF, BGP and DHCP Server
System Management	- Industry Standard CLI - Web-based management interface - RMON - DHCP (Client)	- SNMP v1/v2/v3 - Zero Touch Provisioning - NTP - SSH - Syslog

CHASSIS MANAGEMENT MODULES (CMM)

Supporting MicroBlade and New Generation SuperBlade

The Chassis Management Module (CMM) provides remote access control capability to the enclosure and components such as individual server blade, power supply, and network switch. User enjoys the centralized remote management to monitor and control over the CMM hierarchy at all 3 levels SSM, CMM and IPMI.

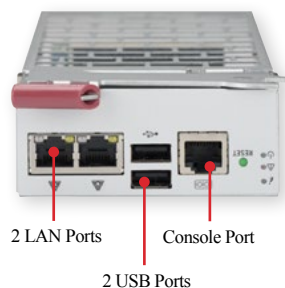
Remote access is enabled via IP address to capture server blade status and the next layer of system information at BMC via table summary, which includes: FW rev, FW Build Time, BIOS version, BIOS Build Time, IP Address, BMC MAC Address, System LAN1 MAC Address, System LAN2 MAC Address, Software Module, Management IP and lastly to the whole system's details such as Core, Environment, WebUI, layer 1/2, Platform Advanced Features, Internal Mapping Names, Admin Mode and Operation Mode Status.



MBM-CMM-FIO



MBM-CMM-001



Specifications

- Remote management processor and sub-system
- Video ADC, video compression FPGA
- Supermicro Rack Scale Design support
- I2C and IPMI 2.0 management
- 12V hot-swap module
- GBX backplane connector
- 1 console port (-001:RS232 or -FIO: RJ45)
- 2 USB ports
- 2 LAN ports
- -FIO: Front I/O access enabled with additional one LAN port and one console port (RJ45) on enclosure

Key Features

- Centralized remote management
 - Server Blades
 - Power Supplies
 - Cooling Fans
 - Switches
- Easy Setup
- Easy Manage
- Management tools
 - IPMIView: CLI, Web-based GUI
 - CMM: Enclosure Monitoring
 - SSM: Blade Enclosure and Rack
 - Utilities: SMCIPMITOOL for CMM and IPMICFG for IPMI
 - OS Support
- Redundancy and Fail-over
- IPMI 2.0 compliant, with KVM over LAN / KVM over IP
- Serial over LAN (SOL)
- Virtual Media Over LAN (Virtual USB Floppy/CD and Drive Redirection)
- LAN Alert-SNMP Trap
- Event Log
- OS Independent
- Hardware Health Monitor
- Supports RMCP & RMCP+ Protocols
- Remote Access
- Remote Power Control
- Remote KVM through Network
- Remote Management Processor and sub-system

POWER SUPPLY MODULES

Supporting MicroBlade and New Generation SuperBlade



Model	PWS-2K21A-BR	PWS-2K01A-BR	PWS-1K67P-1R	PWS-2K02D-BR
Output	2200W/2090W/1980W/ 1800W/1200W	2000W/1980W/1800W/1000W	1600W/1400W/1200W	1600W/2000W
Type	Redundant Module (N+1 or N+N)	Redundant Module (N+1 or N+N)	Redundant Module (N+1 or N+N)	Redundant Module (N+1 or N+N)
+12V	183.33A (2200W) 174.17A (2090W) 165A (1980W) 150A (1800W) 100A (1200W)	166.7A (2000W) 165A (1980W) 150A (1800W) 83.3A (1000W)	133A (1600W) 116.7A (1400W) 100A (1200W)	166.7A (2000W) 133.3A (1600W)
12V _{SB}	2A	4.2A	2A	4.2A
PFC	Yes	Yes	Yes	No
Peak Efficiency	96%+ efficiency (Titanium Level)	96%+ efficiency (Titanium Level)	95%+ efficiency (Platinum Level)	92%+ efficiency
Input Range	100-127V (1200W) 200-220V (1800W) 220-230V (1980W) 230-240V (2090W) 200-220V (2090W for UL & cUL) 220-240V (2200W for UL & cUL)	100-127V (1000W) 200-220V (1800W) 220-230V (1980W) 230-240V (2000W) 200-240V (2000W for UL & cUL)	100-120V (1200W) 120-140V (1400W) 200-240V (1600W)	-40 to -44Vdc (1600W) -44 to -66Vdc (2000W)
Operating Conditions	- Temp: 0 to 50°C - Humidity: 5 to 95% RH	- Temp: 0 to 50°C - Humidity: 5 to 95% RH	- Temp: 0 to 50°C - Humidity: 5 to 95% RH	- Temp: 0 to 50°C - Humidity: 5 to 95% RH
Fan Type	80 x 80mm counter rotating fan	80 x 80mm counter rotating fan	80 x 38mm fan	80 x 80mm counter rotating fan
Dimensions (W x L x H)	106.5 x 245.3 x 84mm	106.5 x 283.3 x 84mm	106.5 x 241.3 x 84mm	106.5 x 283.3 x 84mm

POWER SUPPLY AMPERAGE DRAW

Model	Watts	Low Volts	High Volts	Low Amps	High Amps
PWS-2K21A-BR	1200W	100	127	11	14
PWS-2K21A-BR	1980W	220	230	9.8	10
PWS-2K21A-BR	2090W	230	240	9.8	10
PWS-2K21A-BR	1800W	200	220	9.5	10
PWS-2K21A-BR	2200W (UL/cUL only)	220	240	11	12
PWS-2K21A-BR	2090W (UL/cUL only)	180	220	11	14
PWS-2K01A-BR	2000W (UL/cUL only)	200	240	9.8	11.5
PWS-2K01A-BR	2000W	230	240	9.8	10
PWS-2K01A-BR	1980	220	230	9.8	10
PWS-2K01A-BR	1800	200	220	9.5	10
PWS-2K01A-BR	1000	100	127	9.5	12
PWS-1K67P-1R	1600	100	120	12	14.2
PWS-1K67P-1R	1400	120	140	11.7	13.7
PWS-1K67P-1R	1200	200	240	7	9.4

The Supermicro MicroBlade product includes a power extension cord CBL-PWCD-0579 for 2000W /1600W power supply. The power cord connects the power supply to a wall AC outlet or Power Distribution Unit (optional) in an IT room. The AC outlet and PDU should supply input voltage ranging from 200V to 240V AC. The DC power extension cord CBL-PWEX-0980 for DC power supply PWS-2K02D-BR is optional.

BATTERY BACKUP POWER (BBP®) MODULES

Supporting MicroBlade and New Generation SuperBlade

Key Features

- Fully Integrated design provides power redundancy, battery backup, system cooling and from a single hot-swappable module.
- Increases data center power efficiency, saves floor space and eliminates the need for deploying discrete UPS infrastructure.
- Significantly more cost-effective than traditional UPS deployment, easy to maintain and manage remotely via a single management pane.

The Supermicro BBP® modules are designed for high availability and easy maintenance. They are entirely self-contained, hot-swappable units, charging and delivering power to the system through an internal connector.

In the event of an AC power interruption, the BBP module reacts in real-time to take over and maintain the power load, providing invaluable time for failsafe switchover to an alternative power source or for an orderly system shutdown.

Incorporating the latest rechargeable Lithium-ion cell technology, the BBP modules feature I²C / Smart Battery Monitoring through remote management that promotes longer battery life and higher durability. This Smart Battery Monitoring technology is ideally suited for environments with AC reliability issues or that requires backup power solutions to maximize data protection.

Supermicro servers configured with redundant BBP modules provide maximum system protection for Enterprise and SMB deployments running mission-critical HPC, cloud computing, data center and storage applications.



PWS-1K20B-BR
1200W BBP Module

CHASSIS COMPATIBLE WITH BBP®

Model	Output Power	Capacity	8U		6U	4U
			SBE-820CB-422	SBE-820JB-422	MBE-628EB-422	SBE-414EB-422
PWS-1K20B-BR	1200W	68Whr	● Up to 4	● Up to 4	● Up to 4	● Up to 2

SPECIFICATIONS

Model	PWS-1K20B-BR
Total Output Power	1200W
Input	11.2 to 12.9V _{DC}
Output	12V, 12V _{SB}
Form Factor	MicroBlade™
Dimension (L x W x H)	245.3 x 106.5 x 84 (mm)
Battery Cell Capacity	68Whr
Redundant	N+1 / N+N
I ² C Remote Monitoring	FRU/Smart battery I ² C
+12V output	100A
12V _{SB} output	2.5A
Efficiency	Online mode battery power consumption less than 5W
Discharge Duration	1200W for 35 seconds
Cell Chemistry	Lithium-ion
Cooling	Internal 80 x 80mm cooling fan
Operating Temperature	5°C – 50°C

ESTIMATED RUNTIME

Power Load	Installed BBP Modules	Discharge Duration
1000W	4	180 seconds
2000W	4	120 seconds
3000W	4	60 seconds
4000W	4	35 seconds
4800W	4	35 seconds

Under typical conditions, above is the Estimated Runtime of PWS-1K20B-BR. Runtime can be extended by adding additional BBP® modules to a system.



4x PWS-1K20B-BR installed on a 6U MicroBlade enclosure
4 corners

MicroCloud

24/12/8 Modular UP Server Nodes in 3U • High-Density, High-Performance

• High-Efficiency, and Cost-Effective • Easy-to-Service

• Space Saving, Optimized for Cloud Computing and Web Hosting



SYS-5039MS-H12TRF

12 UP Nodes

12 set of 2x 3.5" SATA3 HDD; or 4x 2.5" SATA3; or
2x 2.5" NVMe + 2x 2.5" SATA3; or
2x 2.5" NVMe + 1x 3.5" SATA3



SYS-5038MD-H8TRF

8 UP Nodes

45W 8-core SoC
8 sets of 2x 3.5" SATA 3 HDD; or
2x 2.5" SATA 3 w/ optional kits
4x M.2 support



SYS-5038MD-H24TRF

24 UP Nodes

45W 6-core SoC
24 set of 2 x 2.5" SATA3 HDD; or
24 set of 4x 2.5" Slim SSD w/ optional kit



SYS-5039MS-H12TRF (Skylake)
SYS-5038ML-H12TRF / H12TRFG (Haswell)

12 Hot-pluggable Nodes in 3U
(Front I/O)
4x 2.5" HDDs/Node



SYS-5038MD-H8TRF (XeonD)
SYS-5039MS-H8TRF (Skylake)
SYS-5038ML-H8TRF/OEM (Haswell)
SYS-5038MR-H8TRF (Broadwell)

8 Hot-pluggable Nodes in 3U
(Rear I/O)

The Supermicro MicroCloud modular server system provides the high density, performance, efficiency and cost effectiveness required for today's demanding server deployments. The 24/12/8 modular server nodes are conveniently integrated into a compact 3U chassis that is less than 30 inches deep, saving over 76% of rack space when compared to traditional 1U servers. The cable-less, hot-pluggable server nodes operate independently. Each node provides up to Up to 128GB DDR4-2133/1866/1600MHz of ECC Unbuffered DIMM or 128GB RDIMM / 256GB LRDIMM / 512GB LRDIMM ECC DDR4 memory, one PCI-E 3.0 x8 expansion slot for low-profile add-on card, and 2x 2.5" NVMe, 2x 3.5", or 4x 2.5" HDDs. The MicroCloud system utilizes redundant Titanium Level (96%) high-efficiency power supplies and sophisticated cooling zone controls for a Green energy profile. Each node is powered by the latest Intel® Xeon® Processor E3-1200 v5 (up to 80W) or Intel® Xeon® Processor E5-2600 v4/v3 (up to 145W) or Intel® Xeon® processor D (45W) product families.



12 UP Nodes

Exceptional performance with SMC, exclusive 16GB VLP DDR4 ECC UDIMM (MEM-DR416L-CV01-EU24)**

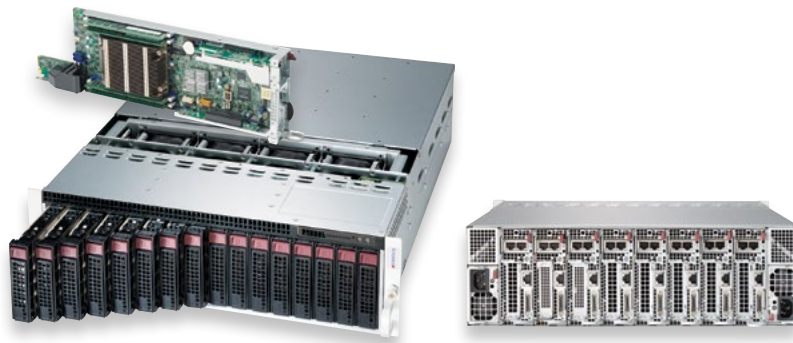


MODEL	SYS-5039MS-H12TRF
Processor Support	12 set of Intel® Xeon® processor E3-1200 v5, Intel® 6th Gen Core™ i3, Intel® Pentium®, Intel® Celeron® processors product family
Key Applications	• Cloud Computing • Web Cache • Web Hosting, VM • Social Networking • Corporate- WINS, DNS, Print, Login
Outstanding Features	• Up to 12x hot-pluggable node in 3U chassis • Flexible HDD selection, 2x 3.5" SATA3 or 4x 2.5" SATA3 or 2x 2.5" NVMe plus 2x 2.5" SATA3 or 2x 2.5" NVMe plus 1x 3.5" SATA 3 • Redundant 2000W Titanium Level high-efficiency power supplies • UID LED • Centralized dedicated management switch port
Serverboard	SUPER● X11SSE-F
Chipset	Intel® C236 chipset
System Memory (Max.)*	12 set of up to 64GB Unbuffered ECC Very Low Profile DDR4 2133MHz in 4 DIMM slots
Expansion Slots	12 set of Micro-LP slots (MicroLP upgradable)
Onboard Storage Controller	12 set of Intel® C236 controller for 2 SATA3 (6Gbps) ports; RAID 0, 1, 5, 10
Connectivity	12 set of Dual LAN Intel® i350 GbE LAN controller
VGA/Audio	12 set of AST2400 VGA
Management	Single dedicate management port, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog
Drive Bays	12 set of 2x 3.5" SATA3 HDD; or 4x 2.5" SATA3; or 2x 2.5" NVMe + 2x 2.5" SATA3; or 2x 2.5" NVMe + 1x 3.5" SATA3
Peripheral Bays	2000W Redundant Titanium Level high-efficiency power supplies
Power Supply	4x 9cm heavy duty fans with optimal cooling zone
Cooling System	3U Rackmount 444.5 x 132.5 x 749.3mm (17.5" x 5.21" x 29.5")
Form Factor	2U Rackmount; Enclosure: 437 x 89 x 723mm (17.2" x 3.5" x 28.46")

* Please check with your Supermicro sales representative and website for compatibility and configuration details



8 UP Nodes



MODEL	SYS-5039MS-H8TRF
Processor Support	8 set of Intel® Xeon® processor E3-1200 v5, Intel® 6th Gen Core™ i3, Intel® Pentium®, Intel® Celeron® processors product family
Key Applications	• Cloud Computing • Web Cache • Web Hosting, VM • Social Networking
Outstanding Features	• Up to 8x hot-pluggable node in 3U chassis • 1 PCI-E 3.0 (x8) low-profile • Redundant 1600W Titanium Level high-efficiency power supplies • Hot-swappable SAS/SATA3 HDDs • UID LED
Serverboard	SUPER® X11SSD-F
Chipset	Intel® C236 chipset
System Memory (Max.)*	8 set of up to 64GB Unbuffered ECC Low Profile DDR4 2133MHz in 4 DIMM slots
Expansion Slots	8 set of PCI-E 3.0 x8 low profile slot and 8 set of Micro-LP slots (MicroLP upgradable)
Onboard Storage Controller	8 set of Intel® C236 controller for 2 SATA3 (6Gbps) ports; RAID 0, 1, 5, 10; Selected low-profile RAID or HBA RAID card to support SAS HDD
Connectivity	8 set of Dual LAN Intel® i350 GbE LAN controller
VGA/Audio	8 set of AST2400 VGA
Management	8 set of IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog
Drive Bays	8 set of 2x 3.5" SATA3 HDD; or 2x 2.5" SATA3 w/ option kits
Peripheral Bays	1600W Redundant Titanium Level high-efficiency power supplies
Power Supply	4x 8cm hot-swap cooling fans with fan speed control
Cooling System	3U Rackmount 438.4 x 132.5 x 589mm (17.26" x 5.21" x 23.2")
Form Factor	2U Rackmount; Enclosure: 437 x 89 x 723mm (17.2" x 3.5" x 28.46")

* Please check with your Supermicro sales representative and website for compatibility and configuration details



8 UP Nodes



MODEL	SYS-5038MD-H8TRF
Processor Support	8 set of Intel® Xeon® processor D-1541, 8-Core, 45W
Key Applications	• Cloud Computing • Web Cache • Web Hosting, VM • Social Networking • CDN
Outstanding Features	• 4x M.2 support (3x 22110, 1x 2240) • Up to 8x hot-pluggable node in 3U chassis • 1 PCI-E 3.0 (x8) low-profile • Redundant 1600W Titanium Level high-efficiency power supplies • Hot-swappable SAS/SATA3 HDDs • UID LED
Serverboard	SUPER [®] X10SDD-F
Chipset	Intel® Xeon® Processor D SoC
System Memory (Max.)*	8 set of up to 128GB DDR4 ECC RDIMM, 64GB DDR4 ECC/non-ECC UDIMM, in 4 DIMM slots
Expansion Slots	8 set of PCI-E 3.0 x8 low profile slot and 8 set of Micro-LP slots (MicroLP upgradable)
Onboard Storage Controller	8 set of System on Chip
Connectivity	8 set of Dual LAN Intel® i350 GbE LAN controller
VGA/Audio	8 set of AST2400 VGA
Management	8 set of IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog
Drive Bays	8 set of 2x 3.5" SATA3 HDD; or 2x 2.5" SATA3 w/ option kits
Peripheral Bays	1600W Redundant Titanium Level high-efficiency power supplies
Power Supply	4x 8cm hot-swap cooling fans with fan speed control
Cooling System	3U Rackmount 438.4 x 132.5 x 589mm (17.26" x 5.21" x 23.2")
Form Factor	2U Rackmount; Enclosure: 437 x 89 x 723mm (17.2" x 3.5" x 28.46")

* Please check with your Supermicro sales representative and website for compatibility and configuration details

24 UP Nodes



MODEL	SYS-5038MD-H24TRF
Processor Support	24 set of Intel® Xeon® Processor D-1531, 6-core, 45W
Key Applications	• Cloud Computing • Web Cache • Web Hosting, VM • Social Networking • CDN
Outstanding Features	• Low Power Xeon D SoC 6 Core • Dual Intel i350 GbE LAN • 128GB DDR4 ECC RDIMM/64GB ECC UDIMM • Redundant 1600W Platinum Level power supply • UID LED
Serverboard	SUPER [®] X10SDE-DF
Chipset	Intel® Xeon® Processor D SoC
System Memory (Max.)*	24 set of up to 128GB DDR4 VLP ECC RDIMM/64GB DDR4 VLP ECC UDIMM in 4 DIMM slots
Expansion Slots	N/A
Onboard Storage Controller	24 set of SoC controller for 2 SATA3 (6 Gbps) port
Connectivity	24 set of Dual port GbE and 1 dedicated IPMI per node
VGA/Audio	24 set of AST2400 VGA
Management	12 set of IPMI 2.0 + KVM with dedicated LAN (1 set shared between 2 nodes)
Drive Bays	24 set of 1x 2.5" HDD fixed per node.
Peripheral Bays	1600W Redundant Platinum Level High-Efficiency power supplies
Power Supply	4x 9cm Heavy duty fan with optimal cooling zone
Cooling System	3U Rackmount 438 x 132 x 749.3mm (17.5" x 5.21" x 29.5")
Form Factor	2U Rackmount; Enclosure: 437 x 89 x 723mm (17.2" x 3.5" x 28.46")

* Please check with your Supermicro sales representative and website for compatibility and configuration details

** Memory not included



24 UP Nodes

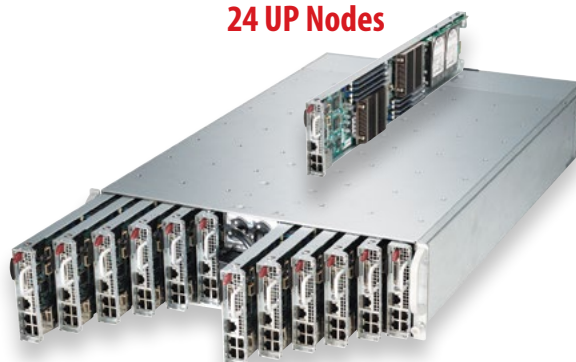


MODEL	SYS-5038MA-H24TRF
Processor Support	24 set of Intel® Atom® processor C2750 (20W, 8-Core)
Key Applications	• CDN • Hosting & Application delivery • Web Cache • Web Server • Memcache
Outstanding Features	• 24x Intel® Atom® processor Nodes in 12 hot-plug sleds, 2 nodes per sled • 1620W Redundant Platinum Level high-Efficiency power supplies • 2x 2.5" SATA 3.0 (6Gbps) HDDs per node • 2 Gigabit Ethernet Ports per Node • 32GB of DDR3 Unb. VLP ECC Memory per Node
Serverboard	SUPER [®] A1SA2-2750F
Chipset	Intel® Atom® processor SoC
System Memory (Max.)*	24 set of up to 32GB ECC UDIMM, VLP DDR3-1600MHz in 4 DIMM Slots
Expansion Slots	N/A
Onboard Storage Controller	24 set of Intel® Atom® processor SoC for SATA3 (6Gbps) ports; RAID 0,1
Connectivity	24 set of Dual port GbE
VGA/Audio	24 set of AST2400 VGA
Management	12 set of IPMI 2.0 + KVM with dedicated LAN (1 set shared between 2 nodes)
Drive Bays	24 set of 2x 2.5" SATA3 fixed HDDs per node
Peripheral Bays	1620W Redundant Platinum Level High-Efficiency power supplies
Power Supply	4x 9cm Heavy duty fans with optimal cooling zone
Cooling System	3U Rackmount 444.5 x 132.5 x 749.3mm (17.5" x 5.21" x 29.5")
Form Factor	2U Rackmount; Enclosure: 437 x 89 x 723mm (17.2" x 3.5" x 28.46")

* Please check with your Supermicro sales representative and website for compatibility and configuration details



24 UP Nodes



MODEL	SYS-5038ML-H24TRF
Processor Support	24 set of 4 th Generation Intel® Core™ i3 processor, Intel® Celeron® processor, Intel® Pentium® processor or Intel® Xeon® processor E3-1200 v3 product families; Socket H3 (LGA 1150) up to 80W CPU
Key Applications	• Cloud Computing • Web Cache, CDN, Video Streaming • Web/Collocating Service • Social networking/download
Outstanding Features	• 24x UP Nodes in 12 hot-plug sleds, 2 nodes per sled • 2000W Redundant Platinum Level Digital high-efficiency power supplies • 2x 2.5" SATA3 (6Gbps) HDDs or 4x 2.5" slim SSD w/ optional kit per sled • IPMI 2.0 + KVM with dedicated LAN • Multi-node UP server • UID LED
Serverboard	SUPER [®] X10SLE-DF
Chipset	Intel® C224 chipset
System Memory (Max.)*	24 set of up to 32GB ECC UDIMM, VLP DDR3-1600 MHz in 4 DIMM slots
Expansion Slots	N/A
Onboard Storage Controller	24 set of Intel® C224 controller for 2 SATA 3 *6Gbps) ports; RAID 0, 1, 5, 10
Connectivity	24 set of Dual LAN Intel® i350 GbE LAN controller
VGA/Audio	24 set of AST2400 VGA
Management	12 set of IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog
Drive Bays	24 set of 1x 2.5" SATA3 fixed HDDs; or 2x 2.5" slim SSD w/ optional kit
Peripheral Bays	2000W Redundant Platinum Level Digital high-efficiency power supplies
Power Supply	4x 9cm Heavy duty fans with optimal cooling zone
Cooling System	3U Rackmount 444.5 x 132.5 x 791.2mm (17.5" x 5.21" x 31.15")
Form Factor	2U Rackmount; Enclosure: 437 x 89 x 723mm (17.2" x 3.5" x 28.46")

* Please check with your Supermicro sales representative and website for compatibility and configuration details



12 Hot-plug UP Nodes

2x 3.5" SATA3
(6Gbps) HDDs Per Node



4x 2.5" SATA (3Gbps)
HDDs Per Node

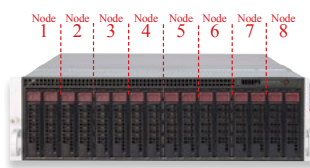
MODEL	SYS-5038ML-H12TRF SYS-5038ML-H12TRFG
Processor Support	12 set of 4 th Generation Intel® Core™ i3 processor, Intel® Celeron® processor, Intel® Pentium® processor or Intel® Xeon® processor E3-1200 v4/v3 product families; Socket H3 (LGA 1150) up to 80W CPU
Key Applications	• Cloud Computing • Web Cache, CDN, Video Streaming • Web/Collocating Service • Social networking/download
Outstanding Features	• 12x Hot-plug UP Nodes in 3U • 1620W Redundant Platinum Level high-efficiency power supplies • 4x 2.5" SATA / 2x 3.5 HDDs per node • IPMI 2.0 + KVM with dedicated LAN • UID LED
Serverboard	-H12TRF: SUPERMICRO® X10SLE-F -H12TRFG: SUPERMICRO® X10SLE-HF (-OEM)
Chipset	-H12TRF: Intel® C224 chipset -H12TRFG: Intel® C226 chipset
System Memory (Max.)*	12 set of up to 32GB ECC UDIMM, VLP DDR3-1600 MHz in 4 DIMM slots
Expansion Slots	12 set of Micro-LP slots (Micro-LP upgradable)
Onboard Storage Controller	12 set of Intel® C224 controller for 4 SATA3 (6Gbps) ports; RAID 0,1,5,10
Connectivity	12 set of Dual LAN Intel® i350 GbE LAN controller
VGA/Audio	12 set of AST2400 VGA
Management	12 set of IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog
Drive Bays	12 set of 2x 3.5" SATA3 fixed HDDs or 4x 2.5" fixed SATA3 HDDs w/ optional kit
Peripheral Bays	1620W Redundant Platinum Level high-efficiency power supplies
Power Supply	4x 9cm Heavy duty fans with optimal cooling zone
Cooling System	3U Rackmount 444.5 x 132.5 x 749.3mm (17.5" x 5.21" x 29.5")
Form Factor	2U Rackmount; Enclosure: 437 x 89 x 723mm (17.2" x 3.5" x 28.46")

* Please check with your Supermicro sales representative and website for compatibility and configuration details



8 Hot-plug UP Nodes

2x 3.5" SATA3 (6Gbps) /
SAS HDDs w/ selected HBA or RAID
card Per Node



16x 3.5" hot-swap SATA3/SAS drive bays
(2 HDDs per node)

MODEL	SYS-5038ML-H12TRF SYS-5038ML-H12TRFG
Processor Support	8 set of 4th Generation Intel® Core™ i3 processor, Intel® Celeron® processor, Intel® Pentium® processor or Intel® Xeon® processor E3-1200 v4/v3 product families; Socket H3 (LGA 1150), up to 84W CPU
Key Applications	• Cloud Computing • Web Cache, CDN, Video Streaming • Web/Collocating Service • Social networking/download
Outstanding Features	• 8x Hot-plug UP Nodes in 3U • 1 PCI-E x8 slot • 1620W Redundant Platinum Level high-efficiency power supplies • IPMI 2.0 + KVM with dedicated LAN • Hot-swappable SAS/SATA3 (6Gbps) HDDs • UID LED
Serverboard	SUPER●* X10SLD-F SUPER●* X10SLD-HF (-OEM)
Chipset	Intel® C224 chipset Intel® C226 chipset (-OEM)
System Memory (Max.)*	8 set of up to 32GB ECC UDIMM, DDR3-1600 MHz in 4 DIMM slots
Expansion Slots	8 set of PCI-E 3.0 x8 low-profile slot and 8 set of Micro-LP slots (Micro-LP upgradable)
Onboard Storage Controller	8 set of Intel® C224 controller for 2 SATA3 (6Gbps) ports; RAID 0,1; Selected low-profile RAID or HBA RAID card to support SAS HDD
Connectivity	8 set of Dual LAN Intel® i350 GbE LAN controller
VGA/Audio	8 set of AST2400 VGA
Management	8 set of IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog
Drive Bays	8 set of 2x 3.5" hot-swap SAS/SATA3 (6Gbps) HDDs
Peripheral Bays	1620W Redundant Platinum Level high-efficiency power supplies
Power Supply	4x 8cm Heavy duty fans with optimal cooling zone
Cooling System	3U Rackmount 438.4 x 132.5 x 589mm (17.26" x 5.21" x 23.2")
Form Factor	2U Rackmount; Enclosure: 437 x 89 x 723mm (17.2" x 3.5" x 28.46")

* Please check with your Supermicro sales representative and website for compatibility and configuration details

8 Hot-plug UP Nodes



MODEL	SYS-5038MR-H8TRF
Processor Support	8 set of Intel® Xeon® Processor E5-2600 v4/v3 product families, and Intel® Xeon® Processor E5-1600 v4/v3 product families
Key Applications	• CDN • Cloud Computing • Social Networking • Video Streaming • Web Cache
Outstanding Features	• 8 x Hot-plug UP nodes in 3U • 1 x PCI-E x8 slot • 1620W Redundant Platinum Level high-efficiency power supplies • IPMI 2.0 + KVM with dedicated LAN • Hot-swappable SAS/SATA3 (6Gbps) HDDs • UID LED
Serverboard	SUPER● X10SRD-F
Chipset	Intel® C612 Chipset
System Memory (Max.)*	4 DIMMs per node, support up to 512GB ECC 3DS LRDIMM / 256GB ECC LRDIMM / 128GB ECC RDIMMs 2400/2133/1866/1600 MHz Memory
Expansion Slots	8 set of 1 PCI-E 3.0 x8 (low profile) and 8 set of Micro-LP slots (Micro-LP upgradable)
Onboard Storage Controller	8 set of Intel® C612 for 2 SATA3 (6Gbps) ports; RAID 0, 1; Selected low-profile RAID or HBA RAID card to support SAS HDD
Connectivity	8 set of Dual LAN with 2x Intel I350 Gigabit Ethernet controllers
VGA/Audio	8 set of AST2400 VGA
Management	8 set of Dedicated Management LAN port
Drive Bays	8 set of 2 x 3.5" hot-swap SATA3/SAS (6Gbps) drive bays
Peripheral Bays	1620W Redundant Platinum Level high-efficiency power supplies
Power Supply	4x 8cm hot-swap cooling fans with fan speed control
Cooling System	3U Rackmount 387 x 132 x 585mm (15.25" x 5.2" x 23")
Form Factor	2U Rackmount; Enclosure: 437 x 89 x 723mm (17.2" x 3.5" x 28.46")

* Please check with your Supermicro sales representative and website for compatibility and configuration details

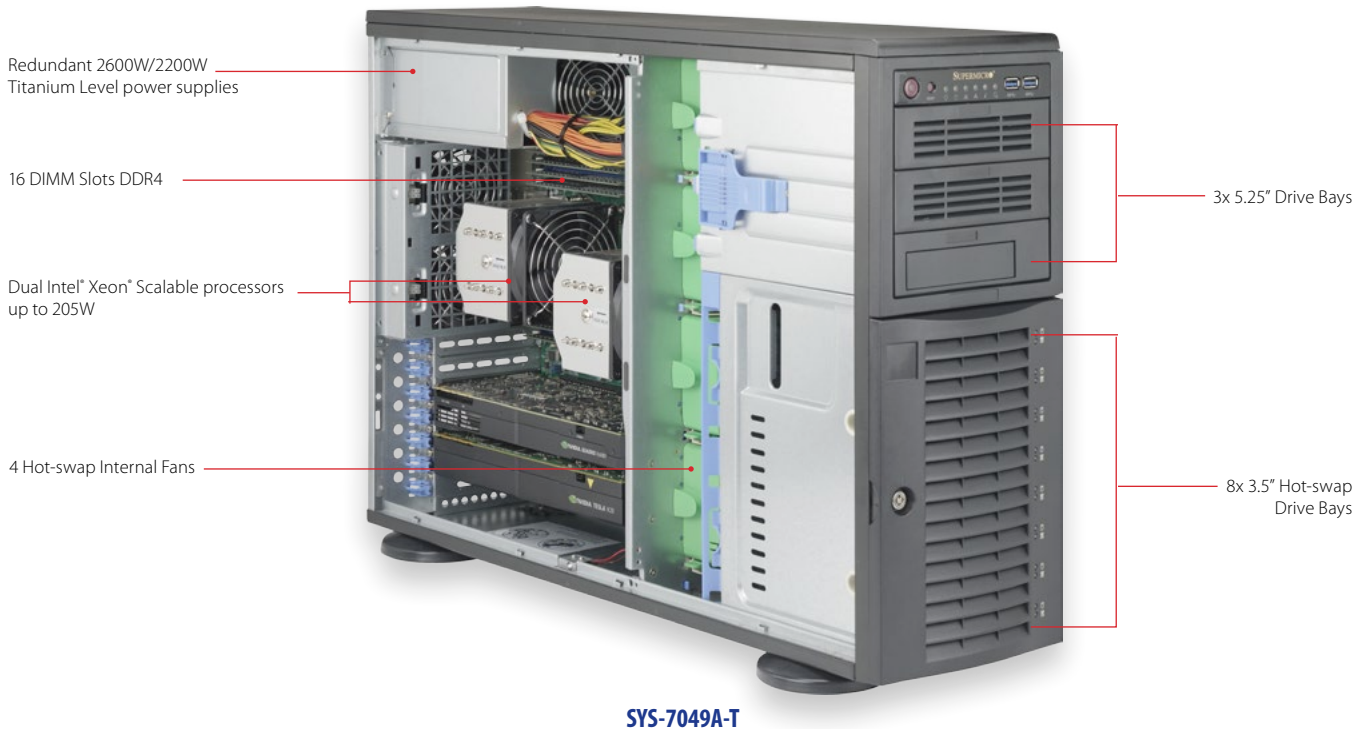
X11 SuperWorkstation

NEW! Intel® Xeon® Scalable Processors Supported



Server Grade Quality Workstations for High Performance Workloads

- **Compact DP Workstation (SYS-7039A-i)**
- **High End DP Workstation (SYS-7049A-T)**
- **GPU Optimized DP Workstation (SYS-7049GP-TRT)**



SYS-7039A-i



SYS-7049A-T



SYS-7049GP-TRT

Server Grade Quality for Knowledge Workers

Supermicro's new generation X11 SuperWorkstations are optimized for applications requiring powerful graphics capabilities including rendering, image processing, scientific and engineering tasks. With rich multimedia features, these systems are also the perfect choice for digital entertainment.

Supermicro's server grade SuperWorkstation motherboards support up to: 2TB ECC DDR4-2666MHz memory in 16 DIMM slots, 6 PCI-E slots including 3 PCI-E 3.0 x16 slots and 1 PCI-E x4 (in x8) for GPU/Coprocessor cards, 8 ports of Broadcom 3008 SAS 3.0 (12Gbps) with Software RAID, and dual Gigabit Ethernet LAN ports. The extremely feature-rich workstations also feature Other useful workstation features include 7.1 HD audio, 11 USB ports (6 USB 3.0), Thunderbolt AOC, 7+ year product life cycle, and 205160W CPU support for exceptional performance.

The workstations are available in Compact DP, High-End DP and GPU-Optimized workstation configurations.



X11 SuperWorkstation

Compact High-Performance



X11 SuperWorkstation

Compact High-Performance



MODEL	SYS-7039A-i	SYS-7049A-T
Processor Support	Dual Intel® Xeon® Scalable processors with UPI up to 10.4 GT/s	Dual Intel® Xeon® Scalable processors with UPI up to 10.4 GT/s
Key Applications	• 2D/3D and CAD Applications • 3D Rendering • CAD/CAM/CAE • Digital Content Creation • Oil and Gas Simulation • Research lab/National Lab	• 2D/3D and CAD Applications • 3D Rendering • CAD/CAM/CAE • Digital Content Creation • Oil and Gas Simulation • Research lab/National Lab
Outstanding Features	• Whisper quiet and compact • Multiple GPU support	Tower or 4U Rackmount System Multiple GPU support
Serverboard	SUPER● X11DAi-N	SUPER● X11DAi-N
Chipset	Intel® C621 Chipset	Intel® C621 Chipset
System Memory (Max.)*	2TB 3DS ECC LRDIMM, DDR4-2666MHz, in 16 DIMM slots	2TB 3DS ECC LRDIMM, DDR4-2666MHz, in 16 DIMM slots
Expansion Slots	4 PCI-E 3.0 x16; 2 PCI-E 3.0 x8 (1x PCH slot)for Thunderbolt 3.0 AOC (optional)	4 PCI-E 3.0 x16; 2 PCI-E 3.0 x8 (1x PCH slot)for Thunderbolt 3.0 AOC (optional)
Onboard Storage Controller	Intel® C621 controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10;	Intel® C621 controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10;
Connectivity	Dual LAN with Lewisburg;	Dual LAN with Lewisburg;
VGA/Audio	1 VGA, 1 Aspeed AST2500 BMC; 7.1 HD Audio	1 VGA D-Sub Connector 7.1 HD Audio
Management	Intel® Node Manager; IPMI2.0; SPM; SSM; SUM; SuperDoctor® 5;	IPMI2.0
Drive Bays	4x 3.5" fixed drive bay, optional 4x 2.5" fixed drive bay	8x 3.5" hot-swap SAS/SATA drive bay
Peripheral Bays	2x 5.25 drive bays	3x 5.25 drive bays
Power Supply	No Redundant 1 Qty. PWS-1K25P-PQ	1200W High-efficiency (Platinum level) PWS
Cooling System	1x 12cm rear exhaust fan; 1x 12cm (front) cooling fan	2 Super quiet PWM chassis fan & 1 Super quiet rear fan with Optimal Fan Speed Control
Form Factor	Mid-Tower 7.6" (193mm) x 16.7" (424mm) x 20.68" (525mm)	4U 452 x 178 x 647mm (17.8"x7"x25.5")

* Please check with your Supermicro sales representative and website for compatibility and configuration details



SuperServer®

High Performance Super Workstation, Versatile Features & I/O Access



SuperWorkstation

Thunderbolt Support, Supports 2 GPU/Coprocessor



MODEL	SYS-5039A-iL	SYS-7038A-i
Processor Support	6th Generation Intel® Core™ i7 Processor, Intel® Core™ i5 Processor, Intel® Core™ i3 Processor product families; Intel® Xeon® processor E3-1200 v5 product families	Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s (up to 160W)
Key Applications	- CAD/CAM/CAE - Digital Imaging - Entry-Level Workstation - Medical Applications - Oil & Gas - Simulation & Automation	2D/3D and CAD Applications 3D Rendering CAD/CAM/CAE Digital Content Creation Digital Imaging
Outstanding Features	- Cost effective UP platform - SATA 3.0 (6Gbps) support	Thunderbolt 2.0 AOC Support Support 2 double width GPUs + 1 single width graphic card 6x USB 3.0 ports Up to 160W CPU support
Serverboard	SUPER® X11SAE	SUPER® X10DAi
Chipset	Intel® C236 chipset	Intel® C612 Chipset
System Memory (Max.)*	Up to 64GB Unbuffered ECC/non-ECC, DDR4-2133MHz in 4 DIMM slots	Up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots
Expansion Slots	2 PCI-E 3.0 x16 (x16/NA or x8/x8); 2 PCI-E 3.0 x1 (in x4); 2 PCI-32 Slots	3 PCI-E 3.0 x16 (2 double-width, 1 single-width), 2 PCI-E 3.0 x8 (1 in x16 slot), 1 PCI-E 3.0 x4 (1 in x16 slot), Support Thunderbolt 2.0 AOC
Onboard Storage Controller	Intel® C236 controller for 8 SATA3 (6 Gbps) ports; RAID 0,1,5,10+ 1 PCI-E M.2(PCI-E x4, 2242/2260/2280)(No Raid Support)	Intel® C612 controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10
Connectivity	Single LAN with Intel® Ethernet Controller i210-AT; Single LAN with Intel® PHY I219LM LAN controller	Dual LAN with Intel® i210 Gigabit Ethernet Controller
VGA/Audio	1 DVI - D, 1 DP (DisplayPort), 1 HDMI ALC 888S HD Audio	7.1 HD Audio
Management	AMT; SuperDoctor® 5; vPro; Watchdog;	NMI, SuperDoctor® 5, Watchdog
Drive Bays	4x 3.5" internal fixed drive bays; Optional 4x 2.5" internal fixed drive bays	4x 3.5" internal fixed drive bays; optional 4x 2.5" internal fixed drive bays
Peripheral Bays	2x standard 5.25" drive bays; 1x 3.5" device bay	2x standard 5.25" drive bays; 1x 3.5" device bay
Power Supply	500W high-efficiency power supply	900W Gold Level Multi-Output Power Supply
Cooling System	1x 12cm (1859 RPM)	2x 12cm (1859 RPM)
Form Factor	Mid-Tower 424 x 193 x 525mm (16.7" x 7.6" x 20.68")	Mid-Tower 424 x 193 x 525mm (16.7" x 7.6" x 20.68")

* Please check with your Supermicro sales representative and website for compatibility and configuration details



Thunderbolt Support
Supports 2 GPU/Coprocessor



Thunderbolt Support
Supports 4 GPU/Coprocessor



MODEL	SYS-7048A-T	SYS-7048GR-TR
Processor Support	Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s (up to 160W)	Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s
Key Applications	• 2D/3D and CAD Applications • 3D Rendering • CAD/CAM/CAE • Digital Content Creation • Digital Imaging	• HPC cluster computer nodes • Simulation and Creation Design • Imaging and Computer Vision
Outstanding Features	• Tower or 4U Rackmount System • Thunderbolt 2.0 AOC Support • Support 2 double-width + 1 single-width GPUs/Coprocessor • 8x 3.5" hot-swap drive bays • Up to 160W CPU support	• 16 DIMM slots • 2000W Redundant Titanium Level high-efficiency power supplies • 16 DIMM slots • 8 Hot-swap 3.5" SATA/SAS drive bays • IPMI 2.0 + KVM with dedicated LAN • 7.1 HD Audio Header • 4 x PCI-E 3.0 x16 slots, 2 x PCI-E 3.0 x8 (1 in x16), 1 x PCI-E 2.0 x4 (in x8)
Serverboard	SUPER [®] X10DAi	SUPER [®] X10DRG-Q
Chipset	Intel® C612 Chipset	Intel® C612 chipset
System Memory (Max.)*	Up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots	Up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots
Expansion Slots	3 PCI-E 3.0 x16 (2 double-width, 1 single-width), 2 PCI-E 3.0 x8 (1 in x16 slot), 1 PCI-E 3.0 x4 (1 in x16 slot), Support Thunderbolt 2.0 AOC	4 PCI-E 3.0 x16 (double-width), 2 PCI-E 3.0 x8 (1 in x16 slot), 1 PCI-E 2.0 x4 (in x8), Support Thunderbolt 2.0 AOC
Onboard Storage Controller	Intel® C612 controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10	Intel® C612 AHCI controller for 8 SATA3 (6 Gbps) ports; RAID 0,1,5,10;
Connectivity	Dual LAN with Intel® i210 Gigabit Ethernet Controller	Dual LAN with Intel® i350 Gigabit Ethernet Controllers
VGA/Audio	7.1 HD Audio	AST2400 VGA
Management	NMI, SuperDoctor® 5, Watchdog	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog
Drive Bays	8x 3.5" hot-swap SAS/SATA drive bay	8x hot-swap 3.5" SAS/SATA drive bays
Peripheral Bays	3x standard 5.25" drive bays	3x 5.25" drive bays in storage module - rotates 90° for Rackmount, 1x 3.5" fixed drive bay
Power Supply	1200W Platinum Level Multi-Output Power Supply	2000W Redundant Titanium Level high-efficiency power supplies with I/C & PMBus
Cooling System	2x 2800 RPM fan; 1x 2700 RPM fan	4x 92x38mm 4-pin PWM Middle Cooling Fans, 2x 80x38mm 4-pin PWM Rear Exhaust Fans
Form Factor	Tower/4U Rackmount 452 x 178 x 647mm (17.8" x 7" x 25.5")	4U Tower 462 x 178 x 673mm (18.2" x 7" x 26.5")

* Please check with your Supermicro sales representative and website for compatibility and configuration details

High Performance Super Workstation, Versatile Features

High Performance Super Workstation, Versatile Features & I/O Access

Gaming System, Extreme Performance, Triple Display Support



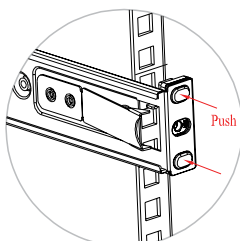
MODEL	SYS-5038A-i	SYS-5038A-iL	SYS-5038AD-T
Processor Support	Single Intel® Xeon® Processor E5-2600 v3, Intel® Xeon® Processor E5-1600 v3, 4th gen. Intel® Core™ i7 processor product families	4th Generation Intel® Core™ i7 Processor, Intel® Core™ i5 Processor, Intel® Core™ i3 Processor, Intel® Xeon® processor E3-1200 v3 product families	4th Generation Intel® Core™ i7 Processor, Intel® Core™ i5 Processor, and Intel® Core™ i3 Processor product families
Key Applications	- Powerful Multitasking Workstation 2D/3D and CAD Applications - High Performance Computer Cluster (HPCC)	- CAD/CAM/CAE - Digital Imaging - Entry-Level Workstation - High-performance computing - Medical Applications - Oil & Gas - Simulation & Automation	- Gaming - HPC - Media/Streaming - Multimedia Appliance
Outstanding Features	- Whisper-quiet operation (21dB) - SATA 3.0 (6Gbps) support 900W Gold Level Multi-Output power supply	- Cost effective UP platform - SATA 3.0 (6Gbps) support	- SATA 3.0 (6Gbps) support 900W Gold Level Multi-Output power supply
Serverboard	SUPER● X10SRA	SUPER● X10SAE	SUPER● C7Z87-OCE
Chipset	Intel® C612 chipset	Intel® C226 chipset	Intel® Z87 chipset
System Memory (Max.)*	Up to 512GB ECC DDR4 2133MHz LRDIMM or 64GB ECC/non-ECC UDIMM (available with Core i7 only); 8 DIMM slots	Up to 32GB ECC/Non-ECC UDIMM in 4 slots; DDR3 up to 1600 MHz	Up to 32GB Unbuffered non-ECC, DDR3-1600 MHz in 4 DIMM slots (support overclocking up to 2133MHz (OC**)/2200MHz (OC**)/2400MHz (OC**)/2600MHz (OC*)/2800MHz (OC**)/3000MHz (OC**))
Expansion Slots	4x PCI-E 3.0 x16 slots (runs at 16/16/NA/8 or 16/8/8/8) 2x PCI-E 2.0 x1 (in x4) slots	2 PCI-E 3.0 x16 (x16/NA or x8/x8); 3 PCI-E 2.0 x1 in x4 slots 2 PCI-E 32-bit	3 PCI-E 3.0 x16 slots (16/NA/NA or 8/8/NA or 8/4/4); 3 PCI-E 2.0 x1 (in x4 slot)
Onboard Storage Controller	SATA3 (6Gbps) via C612 controller (RAID 0, 1, 5, 10 support)	Intel® C226 controller for 6 SATA3 (6Gbps) ports; RAID 0,1,5,10; ASM1061 controller for 2 SATA3 (6Gbps) ports; RAID 0,1	Intel® Z87 controller for 6 SATA3 (6Gbps) ports; RAID 0,1,5,10; ASM1061 controller for 2 SATA3 (6Gbps) ports
Connectivity	Dual Gigabit LAN with Intel® Ethernet Controller I210-AT	Single LAN with Intel® Ethernet Controller I210; Single LAN with Intel® Ethernet Controller I217	Single LAN with Intel® Ethernet Controller i210AT; Single LAN with Intel® Ethernet Controller i217V
VGA/Audio	ALC 1150 HD Audio	1 DVI, 1 VGA, 1 HDMI, 1 Display Port; Triple Display Capable, ALC 1150HD	1 DVI, 1VGA, 1 HDMI and 1 Thunderbolt port; ALC 1150HD
Management	SuperDoctor III; SuperDoctor® 5; Watchdog	AMT; SuperDoctor III; vPro; Watchdog	SuperDoctor III; Watchdog
Drive Bays	4x 3.5" internal fixed drive bays; Optional 4x 2.5" internal fixed drive bays	4x 3.5" internal fixed drive bays; Optional 4x 2.5" internal fixed drive bays	3x 3.5" internal hot-swap drive bays, 2x 3.5" front hot-swap drive bays & optional front 4x 2.5" hot-swap drive bay cage
Peripheral Bays	2x standard 5.25" optical device bays; 1x standard 3.5" device bay	2x standard 5.25" optical device bays; 1x standard 3.5" device bay	2x standard 5.25" drive bays; 1x standard 3.5" drive bay
Power Supply	900W Gold Level high-efficiency power supply	500W high-efficiency power supply	900W Gold Level Multi-Output power supply
Cooling System	1x 12cm (1859 RPM) rear exhaust fan	1x 12cm (1859 RPM) rear exhaust fan	1x 12cm rear exhaust fan, 1x 12cm front cooling fan; Support liquid cooling ready
Form Factor	Mid-Tower 424 x 193 x 525mm (16.7" x 7.6" x 20.68")	Mid-Tower 424 x 193 x 525mm (16.7" x 7.6" x 20.68")	Gaming Mid-Tower 220 x 510 x 580mm (8.66" x 20.08" x 22.83")

* Please check with your Supermicro sales representative and website for compatibility and configuration details

Quick-release Slide Rails

The Supermicro Tool-less, Quick-release Slide Rails

Designed for quick and easy installation and access to Supermicro's server equipment. Several different sizes are provided to accommodate a variety of Supermicro server systems.



Model Part#	MCP-290-00054-0N	MCP-290-00062-0N
Product	Optional rail set	Optional rail set
Content	Quick-release inner rail + quick-release outer rail	Quick-release inner rail + quick-release outer rail
Chassis Type	1U, 17.2" width	1U, 17.2" width
Mechanism	Linear	Linear
Outer Rail Extendable Length	25.6"~33.05"	25.6"~33.05"
Compatible Chassis	Optional for SC813, 815	Optional for SC118, 119, 808, 809, 816, 818, 819

For Short-depth Chassis Rack



Model Part#	MCP-290-00052-0N-BULK	MCP-290-00056-0N
Product	Optional outer rail bulk pack	Optional short-depth outer rail
Content	Quick-release outer rail (10 set/pack)	Short quick-release outer rail
Chassis Type	1U, 17.2" width	1U, 17.2" width in short-depth rack
Mechanism	Linear	Linear
Outer Rail Extendable Length	25.6"~33.05"	19"~26.4"
Compatible Chassis	Optional for SC113, 113M, 118, 119, 512F-280/350/410/441/520/600, 515, 514, 808, 809, 813, 813M, 815, 816, 818, 819	Optional for SC113, 113M, 118, 119, 512F-280/350/410/441/520/600, 514, 515, 808, 809, 813, 813M, 815, 816, 818, 819

For Short-depth Chassis Rack



Model Part#	MCP-290-00053-0N	MCP-290-00057-0N	MCP-290-00058-0N
Product	Default rail set	Default rail set	Optional short-depth rail set
Content	Quick-release inner rail + quick-release outer rail	Quick-release inner rail + quick-release outer rail	Quick-release inner rail + quick-release outer rail
Chassis Type	2~3U, 17.2" width	4U, 17.2" width	2~4U, 17.2" width in short-depth rack
Mechanism	Ball-bearing, support round hole racks with adapter MCP-290-00060-0N	Ball-bearing, support round hole racks with adapter MCP-290-00060-0N	Ball-bearing, support round hole racks with adapter MCP-290-00060-0N
Outer Rail Extendable Length	26.5"~36.4"	26.5"~36.4"	19"~26.6"
Compatible Chassis	Default for SC213, 216, 217, 218, 219, 823M, 825, 825M, 826, 827, 828, 829, 835, 836, 837, 936, 937, 938, 939	Default for SC417, 418, 758, 846, 847, 848, optional for SC842	Optional for SC213, 216, 217, 218, 219, 417, 418, 747, 748, 758, 823M, 825, 825M, 826, 827, 828, 835, 836, 837, 842, 846, 847, 848, 936, 937, 938, 939

SuperRack® Total Solutions



Supermicro's SuperRack® systems were designed for ease of integration, implementation, and deployment. Their easy rear access and modularized Building Block design makes them ideal for hot-swap-capable servers, such as Supermicro's Twin and Double-Sided Storage® families. For a rack system that is convenient, reliable, and customizable, the Supermicro SuperRack® is the ideal choice.

Key Features:

Per-U Design - Ground-breaking Per-U design concept simplifies cable management and minimizes integration time

Accessible - Versatile Front and Rear access hot-plug optimizations provide an improved service experience

Optimized Air Flow - Reduced cabling optimizes air flow and improves cooling

Building Block Design - Building-block design and intuitive installation process reduce overall deployment schedules

Expandable - With unique add-on expansion units the SuperRack® easily accommodates many different server configurations

Customizable - Fully customizable options offer a well-rounded total Rack solution and service

SuperRack® Total Solution - Supermicro provides rack configuration, integration, testing, burn-in, and shipping services delivering an integrated rack system to the end-user. Please contact your Supermicro sales representative for details.



- Versatile Front and Rear access hot-plug optimizations



- Per-U Design simplifies cable management and minimizes integration time

SuperRack® Solutions: Pre-Configured, Fully Tested and Application Optimized

- Hadoop Clusters for Big Data Analytics
- Rack Solutions for Virtualization and Cloud Computing
- Rack Solutions for Search Engine, Web 2.0
- HPC Clusters with GPU/Coprocessor Accelerator
- Scale-Out Storage with Extreme Drive Density
- Rack Integration Service from Design to Delivery

For detailed information, please contact your Supermicro sales representative; visit: <http://www.supermicro.com/products/rack>



42U SuperRack® Front View

(Rear View)

Network Adapters

Faster, More Flexible Networking

With outstanding performance, high power efficiency and excellent value, Supermicro's network adapters can help improve network throughput and application performance through features that maximize bandwidth and offload CPU resources. From 100G, 50G, 40G, 25G Ethernet to InfiniBand technologies, multi-port connectivity, in SIOM, Ultra, microLP and standard form factors, Supermicro's network adapters are optimized for the most demanding multi-core computing systems.

100G Controllers



Model	AOC-SHFI-i1C	AOC-S100G-m2C
Type	Standard Low Profile	Standard Low-Profile
Description	Single Port 100Gbps Intel® Omni Path Host Fabric Interface Adapter	Dual-port 100GbE
Interface	PCI-E 3.0 x16	PCI-E 3.0 x16
Port	1 QSFP28	2 QSFP28
Speed	100Gbps	100Gbps/port
Controller	Intel® OPA HFI ASIC	Mellanox® ConnectX-4 EN
Dimension (LxW) (without end brackets)	6.6" x 2.713" (16.76 x 6.89cm)	6.6" x 2.713" (16.76 x 6.89cm)
Compatible Motherboards	All MBs with a PCI-E x16 slot	All MBs with a PCI-E x16 slot
Compatible Servers	All Servers with a PCI-E x16 slot	All Servers with a PCI-E x16 slot

10GbE Controllers



Model	AOC-CTGS-i2T	AOC-STG-b4S	AOC-CTG-i2T	AOC-CTG-i2S	AOC-CTG-i1S
Type	MicroLP	Standard Low-profile	MicroLP	MicroLP	MicroLP
Description	MicroLP Dual-port 10GbE	Standard Low-profile 10GbE	MicroLP Dual-port 10GbE	Dual-port 10GbE	Single-port 10GbE
Interface	PCI-E 3.0 x4	PCI-E x8	PCI-E 2.0 x8	PCI-E 2.0 x8	PCI-E 2.0 x8
Port	2 RJ45	4 SFP+	2 RJ45	2 SFP+ ports / 2 USB ports	1 SFP+ port / 2 USB ports
Ethernet Speed	10Gb/port	10Gb/port	10Gb/port	10Gb/port	10Gb/port
Controller	Intel® X550-AT2	Broadcom® BCM57840S	Intel® X540	Intel® 82599ES	Intel® 82599EN
Dimension (LxW) (without end brackets)	4.45" x 1.54" (11.3 x 3.9cm)	5.4" x 2.73" (13.7 x 6.9cm)	4.8" x 2.75" (12.32 x 7.0cm)	4.85" x 1.54" (12.3 x 3.9cm)	4.45" x 1.54" (11.3 x 3.9cm)
Compatible Motherboards	X11SSE-F	AI MBs with a PCI-E x8 slot	X9DRT-HF+, X9DRFR, X10DRFR, X10DRFR-N(T)	X9DRT-HF+, X9SRD-F, X9DRFR, X10DRFR, X10DRFR-N(T)	X9DRT-HF+, X9SRD-F, X9DRFR, X10DRFR, X10DRFR-N(T)
Compatible Servers	MicroCloud, 2U Twin2+, 2U Twin+ and FatTwin	All servers with a PCI-E x8 slot	2U Twin+, and FatTwin w/ 4-node only	MicroCloud, 2U Twin2+, 2U Twin+, and FatTwin	MicroCloud, 2U Twin2+, 2U Twin+, and FatTwin

25/10GbE Controllers & SFP+ Transceiver



Model	AOC-S25G-b2S	AOC-S25G-m2S	AOC-C25G-m1S	AOC-CG-i2	AOC-CGP-i2	AOC-PG-i2+*	AOC-E10GSFSPR
Type	Standard Low-profile	Standard Low-Profile	MicroLP	MicroLP	MicroLP	Proprietary	SFP+ Transceiver
Description	Dual-port 25GbE	Dual-port 25GbE	1U MicroLP Single-port 25GbE controller with 1x SFP28 port.	Dual-port GbE	Dual-port GbE	Low-profile Dual-port GbE	1000Base-SX / 10GBase-SR plug-in module
Interface	PCI-E x8	PCI-E 3.0 x8	PCI-E 3.0 x8	PCI-E x4	PCI-E x4	PCI-E 2.0 x4	Cabling Type: MMF 62.5/50 µm
Port	2 SFP28	2 SFP28	1 SFP28 ports	2 RJ45 ports	2 RJ45 ports	2 RJ45 ports	
Speed	25Gb/port	25Gb/port	25Gb/port (Ethernet)	1 Gb/port	1Gb/port	1 Gb/port	
Controller	Broadcom® BCM57414	Mellanox® ConnectX-4 LX	Mellanox® ConnectX-4 Lx EN	Intel® 82580	Intel® i350	Intel® 82576EB	Compatible Add-on Cards: AOC-STG-i4S, AOC-STGN-i1S, AOC-STGN-i2S, AOC-STG-b4S, AOC-CTG-i1S, AOC-CTG-i2S, AOC-PTG-i1S, AOC-MTG-i4S, AOC-MTGN-i2S
Dimension (LxW) (without end brackets)	5.6" x 2.713" (14.224 x 6.89cm)	5.6" x 2.713" (14.224 x 6.89cm)	4.45" x 1.54" (11.3 x 3.9cm)	4.45" x 1.32" (11.3 x 3.35cm)	4.45" x 1.54" (11.3 x 3.9cm)	3.78" x 2.44" (9.6 x 6.2cm)	
Compatible Motherboards	AI MBs with a PCI-E x8 slot	AI MBs with a PCI-E x8 slot	X10DRFR	X9SCD-F	X9DRT-HF+, X9SRD-F, X9DRFR	X8DTU/-F (Require RSC-R10U-E8PR)	
Compatible Servers	All servers with a PCI-E x8 slot	All servers with a PCI-E x8 slot	FatTwin MicroCloud	5037MC-H8TRF	MicroCloud, 2U Twin2+, 2U Twin+, and FatTwin	6016T-UF, 6016T-NTE, 1026T-URF, 1026T-UF, 6016T-URF (Require RSC-R10U-E8PR)	

* Standard form factor is available as integrated solution with Supermicro server and motherboards.

Micro-LP Cards for 2U Twin Servers

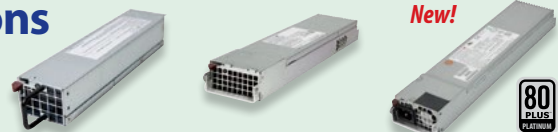


Model	AOC-CIBF-m1	AOC-CTG-i1S	AOC-CTG-i2S	AOC-CGP-i2	AOC-CTG-i2T	AOC-CTGS-i2T	AOC-C25G-m1S
Type	Micro-LP	Micro-LP	Micro-LP	Micro-LP	MicroLP	MicroLP	MicroLP
Description	Micro-LP single-port 10Gb FDR/40G Ethernet	Single-port 10GbE with NC-SI	Dual-port 10GbE	Dual-port GbE	MicroLP Dual-port 10GbE	Dual-port 10GbBase-T with NC-SI	Single-port 25GbE with NC-SI
Interface	PCI-E 3.0 x8	PCI-E x8	PCI-E x8	PCI-E x4	PCI-E 2.0 x8	PCI-E 3.0 x4	PCI-E 3.0 x8
Port	1 QSFP port / 2 USB ports	1 SFP+ port / 2 USB ports	2 SFP+ ports / 2 USB ports	2 RJ45 ports	2 RJ45	2 RJ45	1 SFP28 ports
Speed	56Gb/port (10) or 40Gb/port (Ethernet)	10Gb/port	10Gb/port	1Gb/port	10Gb/port	10Gb/port	25Gb/port
Controller	Mellanox® ConnectX-3 FDR	Intel® 82599EN	Intel® 82599ES	Intel® i350	Intel® X540	Intel® X550	Mellanox ConnectX-4 Lx EN
Dimension (LxW) (without end brackets)	4.85" x 1.54" (12.3 x 3.9cm)	4.45" x 1.54" (11.3 x 3.9cm)	4.85" x 1.54" (12.3 x 3.9cm)	4.45" x 1.54" (11.3 x 3.9cm)	4.8" x 2.75" (12.3 x 7.0cm)	4.45" x 1.54" (11.3 x 3.9cm)	4.45" x 1.54" (11.3 x 3.9cm)
Compatible Motherboards	X9DRT-HF+, X9SRD-F	X9DRFR	X9DRT-HF+, X9SRD-F, X9DRFR	X9DRT-HF+, X9SRD-F, X9DRFR	X9DRT-HF+, X9DRFR	X9DRT-HF+, X9SRD-F, X9DRFR	X10DRFR
Compatible Servers	MicroCloud, 2U Twin2+, 2U Twin+, and FatTwin	MicroCloud, 2U Twin2+, 2U Twin+, and FatTwin	MicroCloud, 2U Twin2+, 2U Twin+, and FatTwin	MicroCloud, 2U Twin2+, 2U Twin+, and FatTwin	2U Twin+, and FatTwin w/ 4-node only	MicroCloud, 2U Twin2+, 2U Twin+, and FatTwin	FatTwin

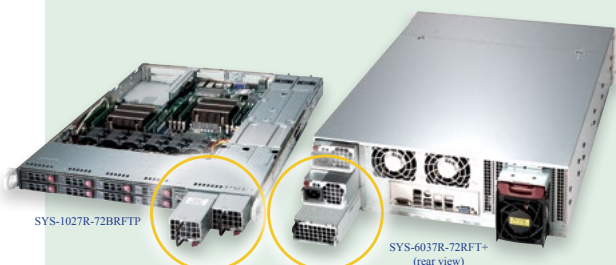
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- Frees UPS space to increase server density deployment
- Flexible configurations available for current Supermicro systems
- More cost-effective than traditional Datacenter UPS
- Fits most Supermicro SuperServers, Storage, and Embedded solutions



Model	PWS-206B-1R	PWS-1K03B-1R	PWS-1K01B-1R
Total Output Power	200W / 5 minutes	1000W / 2.5 minutes	1000W / 1.5 minutes
Input	Work w/ PWS-406P-1R/ 407P-1R/606P-1R	Work w/ PWS-1K03A-1R/ 1K23A-1R/1K28P-SQ/ 1K68A-1R/2K02P-1R/ 2K04A-1R/501P-1R/ 741p-1R	Work w/ PWS-1K03A-1R/ PWS-1K23A-1R/ PWS-1K28P-SQ
Form Factor	1U	1U	1U
Dimension (LxWxH) cm	22 x 5.45 x 4	36 x 7.6 x 4	33.6 x 7.6 x 4
Output Type*	Backplanes available	Backplanes available	Backplanes available
Redundant	Yes	Yes	Yes
P/C Remote Monitoring	FRU/Smart battery I²C	FRU/Smart battery I²C	FRU Data
+5V	-	-	-
+12V	16.7A	83.3A	66.7A (100-127V), 83A (200-240V)
+3.3V	-	-	-
5VSB	2A	4A	4A
-12V	-	-	-
Efficiency	Online mode power consumption <1W	Online mode power consumption <1W	Online mode power consumption <3W



For detailed information, please contact your Supermicro sales representative; visit: <http://www.supermicro.com/BBP>

HBA and SAS RAID Cards

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Model name	AOC-SLG3-2M2	AOC-SLG3-2E4T	AOC-SLG3-4E4T	AOC-SLG3-4E2P	AOC-SLG3-2E4	AOC-SLG3-2E4R	AOC-SLG3-4E4R
Compatible MBs	All*	All*	All*	All*	All	X10DRW-i, X10DRW-IT, X10DRH, X10DRL-CT	X10DSC+, X10SRW-F
Features	x8, dual M.2 SSD expansion card, supports multiple M.2 sizes: 22x110mm; 22x80mm; 22x60mm	x8, dual OCuLink port, PLX PCI-E Switch, SW hot-swap*	x16, quad OCuLink port, Re-Timer, hot-swap*	x8, quad OCuLink port, PLX PCI-E Switch, SW hot-swap*	x8, dual port, PLX, hot-swap* (SW) * Requires backplane w/ U.2 connector	x8, dual port, re-driver (TI), hot-swap* * Requires backplane w/ U.2 connector	x16, quad port, re-driver (TI), hot-swap* * Requires backplane w/ U.2 connector



New!
SAS3



SAS3



SAS3



SAS3



SAS3



6Gbps

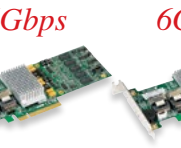
Model	AOC-S3108L-H8iR-16DD	AOC-S3108L-H8iR-16DD	AOC-S3108L-H8iR-16DD	AOC-S3108L-H8iR-16DD	AOC-S3108L-H8iR-16DD	AOC-S3108L-H8iR-16DD	AOC-S3108L-H8iR-16DD
Type	Standard	Low profile PCI-E 3.0 x8	Standard	Standard	Standard	Standard	Standard
Controller/IOP	BroadcomSAS 3216	BroadcomSAS 3108	BroadcomSAS 3108	BroadcomSAS 3108	BroadcomSAS 3008	BroadcomSAS 3008	BroadcomSAS 2208
SAS Port	16 ports, 12Gbps per port, 16 Internal, Low Profile, 1024 SATA/SAS Drives	8 ports, 12Gbps per port, 8 Internal, Low Profile, 16 SATA/SAS Drives	8 ports, 12Gbps per port, 8 Internal, Low Profile, 240 SATA/SAS Drives	8 ports, 12Gbps per port, 8 Internal, Low Profile, 122 SATA/SAS Drives	8 ports, 12Gbps per port, 8 Internal, Low Profile, 63 SATA/SAS Drives	8 ports, 12Gbps per port, 8 Internal, Low Profile, 63 SATA/SAS Drives	8 ports, 6Gbps per port, 8 Internal, Low Profile, 240 SATA/SAS Drives
RAID	IT/HBA	RAID 0,1,5,6,10,50,60	RAID 0,1,5,6,10,50,60	IT/HBA Mode	RAID 0,1,10	RAID 0,1,10	RAID 0,1,5,6,10,50,60
Onboard Cache	-	2GB DDR3 on-card cache Optional SuperCap: BTR-TFM8G-BroadcomCVM02. Installation kit PN=MCP-240-00127-0N	2GB DDR3 on-card cache Optional SuperCap: BTR-TFM8G-BroadcomCVM02. Installation kit PN=MCP-240-00127-0N	-	-	-	1GB DDR3 on-card cache w/ Battery Back-up or SuperCap, Optional Battery Backup Unit: BTR-0022L-Broadcom00279 / MCP-450-00001-0N / Ambient Temp 45C; SuperCap option: BTR-0024LH-Broadcom00297. Installation kit PN=MCP-240-00127-0N



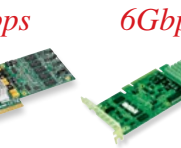
6Gbps



6Gbps



6Gbps



6Gbps



6Gbps



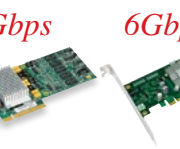
6Gbps

6Gbps

Model	AOC-S2308L-L8e+	AOC-S2308L-L8i+	AOC-SAS2LP-H8iR-16DD+	AOC-SAS2LP-H8iR-16DD+	AOC-USAS2LP-H8iR*	AOC-USAS2-L8iR	AOC-USAS2-L8i
Type	Standard	Standard	Standard	Standard	UIO	UIO	UIO
Controller/IOP	BroadcomSAS 2308	BroadcomSAS 2308	BroadcomSAS 2108	BroadcomSAS 2108	BroadcomSAS 2108	BroadcomSAS 2008	BroadcomSAS 2008
SAS Port	8 ports, 6Gbps per port, 8 Internal, Low Profile, 122 SATA/SAS Drives	8 ports, 6Gbps per port, 8 Internal, Low Profile, 63 SATA/SAS Drives	8 ports, 6Gbps per port, 8 Internal, Low Profile, 240 SATA/SAS Drives	8 ports, 6Gbps per port, 8 Internal, Low Profile, 16 SATA/SAS Drives	8 ports, 6Gbps per port, 8 Internal, Low Profile	8 ports, 6Gbps per port, 8 Internal	8 ports, 6Gbps per port, 8 Internal
RAID	IT/HBA Mode	RAID 0,1,10	RAID 0,1,5,6,10,50,60	RAID 0,1,5,6,10,50,60	RAID 0,1,5,6,10,50,60	RAID 0,1,5,10	RAID 0,1,10,1E
Onboard Cache	-	-	512MB DDR2 on-card cache w/ Optional Battery Backup Unit: BTR-0023L-Broadcom00264	512MB DDR2 on-card cache w/ Optional Battery Backup Unit: BTR-0023L-Broadcom00264	512 MB DDR2 on-card cache w/ Optional Battery Backup Unit: BTR-0023L-Broadcom00264	-	-



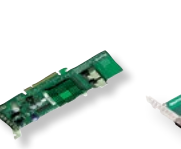
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6Gbps



6Gbps



6Gbps



6Gbps



6Gbps



6Gbps

Model	AOC-USAS2-L8E	AOC-SAS2LP-H4iR+	AOC-SAS2LP-MV8	AOC-USAS-L8i**	AOC-USASLP-L8i**	AOC-USAS-L4iR**	AOC-SASLP-MV8**
Type	UIO	Standard	Standard	UIO	UIO	UIO	Standard
Controller/IOP	BroadcomSAS 2008	BroadcomSAS 2108	Marvel 9480 based	BroadcomSAS 1068E	BroadcomSAS 1068E	BroadcomSAS 1068E	Marvell Hercules-2
SAS Port	8 ports, 6Gbps per port, 8 Internal	8 ports, 6Gbps per port, 4 Internal, 4 External, Low Profile, 240 SATA/SAS Drives	8 ports, 6Gbps per port, 8 Internal, Low Profile	8 ports, 3Gbps per port, 8 Internal	8 ports, 3Gbps per port, 8 Internal, Low Profile	8 ports, 3Gbps per port, 4 Internal, 4 External	8 ports, 3Gbps per port, 8 Internal, Low Profile
RAID	IT mode / HBA	RAID 0,1,5,6,10,50,60	HBA	IT/HBA Mode	IT/HBA Mode	RAID 0,1,10	HBA only
Onboard Cache	-	512MB DDR2 on-card cache w/ battery w/ Optional Battery Backup Unit: BTR-0023L-Broadcom00264	-	-	-	-	-

SIOM Network Adapters

SIOM Networking Adapters



Model	AOC-MGP-i2	AOC-MGP-i4	AOC-MTGN-i2S	AOC-MTG-i4S	AOC-MTG-i2T
Type	SIOM	SIOM	SIOM	SIOM	SIOM
Description	Dual-port GbE	Quad-port GbE	Dual-port 10GbE	Quad-port 10GbE	Dual-port 10GbE
Port	2 RJ45 ports	4 RJ45 ports	2 SFP+ ports	4 SFP+ ports	2 RJ45 ports
Speed	1Gb/port	1Gb/port	10Gb/port	10Gb/port	10Gb/port
Controller	Intel® i350	Intel® i350	Intel® 82599ES	Intel® XL710	Intel® X550
Dimension (LxW) (without end brackets)	3.622" x 3.428" (9.2 x 8.708cm)	3.622" x 3.428" (9.2 x 8.708cm)	3.622" x 3.428" (9.2 x 8.708cm)	3.622" x 3.428" (9.2 x 8.708cm)	3.622" x 3.428" (9.2 x 8.708cm)
Compatible Motherboards	Supermicro® Motherboards with SIOM slot	Supermicro® Motherboards with SIOM slot	Supermicro® Motherboards with SIOM slot	Supermicro® Motherboards with SIOM slot	Supermicro® Motherboards with SIOM slot
Compatible Servers	Supermicro® Servers with SIOM slot	Supermicro® Servers with SIOM slot	Supermicro® Servers with SIOM slot	Supermicro® Servers with SIOM slot	Supermicro® Servers with SIOM slot

SIOM Networking Adapters



Model	AOC-MTG-i4T	AOC-MH25G-m2S2T	AOC-MHIBF-m2Q2G	AOC-MHIBF-m1Q2G	AOC-MHFI-i1C
Type	SIOM	SIOM	SIOM	SIOM	SIOM
Description	Quad-port 10GbE	Dual-port 25GbE & Dual-port 10GbE	Dual-port IB FDR & Dual-port GbE	Single-port IB FDR & Dual-port GbE	Single-port Host Fabric Interface
Port	4 RJ45 ports	2 SFP28 & 2 RJ45 ports	2 QSFP & 2 RJ45 ports	1 QSFP & 2 RJ45 ports	1 QSFP28 port
Speed	10Gb/port	25Gb/port 10Gb/port	56Gb/port 1Gb/port	56Gb/port 1Gb/port	100Gb/port
Controller	Intel® X550	Mellanox® ConnectX-4 Lx EN Intel® X550	Mellanox® ConnectX-3 Pro Intel® i350	Mellanox® ConnectX-3 Pro Intel® i350	Intel® Omni Path HFI ASIC
Dimension (LxW) (without end brackets)	3.622" x 3.428" (9.2 x 8.708cm)	3.622" x 3.428" (9.2 x 8.708cm)	3.622" x 3.428" (9.2 x 8.708cm)	3.622" x 3.428" (9.2 x 8.708cm)	3.622" x 3.428" (9.2 x 8.708cm)
Compatible Motherboards	Supermicro® Motherboards with SIOM slot	Supermicro® Motherboards with SIOM slot	Supermicro® Motherboards with SIOM slot	Supermicro® Motherboards with SIOM slot	Supermicro® Motherboards with SIOM slot
Compatible Servers	Supermicro® Servers with SIOM slot	Supermicro® Servers with SIOM slot	Supermicro® Servers with SIOM slot	Supermicro® Servers with SIOM slot	Supermicro® Servers with SIOM slot

Storage Mezzanine Cards



Model	AOM-S3008M-L8	AOM-S3108M-H8L	AOM-S3108-H8	AOM-B3108-H8	AOM-S3108M-H8	AOM-S3008-L8-SB
Compatible MBs	X10DSC+	x10DSC+	X9DRW-CF31 X9DRW-CTF31 X9DRW-CTF31	B10DRC	X10DRW-i X10DRW-IN X10DRW-iT X10DDW-i X10DDW-IN	X10DRS
Features	8 internal ports, 12Gb/s per port, 240 SATA/SAS drives, IT mode	8 internal ports, 12Gb/s per port, 240 SATA/SAS drives, RAID 0, 1, 5, 10, 6, 60 2 GB cache with protection BTR-CV3108-U1	8 internal ports, 12Gb/s per port, 16 SATA/SAS drives, RAID 0, 1, 5, 10, 6, 60 2 GB cache with protection BTR-TFM8G-BroadcomCVM02	8 internal ports, 12Gb/s per port, 8 SATA/SAS drives, RAID 0, 1, 5, 10, 6, 60 2 GB onboard cache with protection BTR-TFM8G-BroadcomCVM02	8 internal ports, 12Gb/s per port, 16 SATA/SAS drives, RAID 0, 1, 5, 10, 6, 60 2 GB onboard cache with protection BTR-TFM8G-BroadcomCVM02	8 internal ports, 12Gb/s per port, 112 SATA/SAS drives, IR mode, RAID 0, 1, 1e, 10

Ultra Networking Riser Cards

NEW!



Model	AOC-UR-i4G	AOC-UR-i4XT	AOC-UR-i4XT	AOC-UR-i2XT	AOC-URN2-i4XT	AOC-URN6-i2XT	AOC-URN2-i2XT
Form Factor	1U Ultra Riser	1U Ultra Riser	1U Ultra Riser	1U Ultra Riser	1U Ultra Riser	1U Ultra Riser	1U Ultra Riser
Controller Type	GbE	10GBase-T	10GBase-T	10GBase-T	10GBase-T	10GBase-T	10GBase-T
Chipset	Intel® i350	Intel® XL710	Intel® X540	Intel® X540	Intel® X540	Intel® X540	Intel® X540
Port #	4	4	4	2	4	2	2
Connector	RJ45	RJ45	RJ45	RJ45	RJ45	RJ45	RJ45
PCI-E Slot	1x PCI-E 3.0 x8 (internal)	1x PCI-E 3.0 x8 (internal)	1x PCI-E 3.0 x8 (internal)	1x PCI-E 3.0 x8 (internal)	1x PCI-E 3.0 x8 (internal)	N/A	1x PCI-E 3.0 x8 (internal)
NVMe Ports	0	0	0	0	2	6	2
Compatible Motherboards	X10DRU-i+, X10DRU-X	X10DRU-i+	X10DRU-i+, X10DRU-X	X10DRU-i+, X10DRU-X	X10DRU-i+, X10DRU-X	X10DRU-i+	X10DRU-i+, X10DRU-X
Compatible Systems	SYS-1028U-TR4+, SYS-6018U-TR4+, SYS-1028UX-CR-LL1, SYS-1028UX-CR-LL2	TBD	SYS-1028U-TR4+, SYS-6018U-TR4+	SYS-1028U-TRT+, SYS-6018U-TRT+	SYS-1028U-TNR4T+	SYS-1028U-TN10RT+	SYS-1028U-TNRT+

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Model	AOC-URN2-i2XS	AOC-URN2-i4GXS	AOC-URN4-m2TS	AOC-2UR66-i4XTF	AOC-2UR68-i4G	AOC-2UR6-i4XT
Form Factor	1U Ultra Riser	1U Ultra Riser	1U Ultra Riser	2U Ultra Riser	2U Ultra Riser	2U Ultra Riser
Controller Type	10G SFP+	GbE & 10G SFP+	25GbE	10GBase-T	GbE	10GBase-T
Chipset	Intel® i350 & Intel® X710	Intel® i350 & Intel® X710	Mellanox® ConnectX-4 Lx EN	Intel® XL710	Intel® i350	Intel® X540
Port #	2	2+2	2	4	4	4
Connector	SFP+	RJ45 & SFP+	SFP28	RJ45	RJ45	RJ45
PCI-E Slot	1x PCI-E 3.0 x8 (internal)	1x PCI-E 3.0 x8 (internal)	1x PCI-E 3.0 x16 (internal)	2x PCI-E 3.0 x16	1x PCI-E 3.0 x8 (internal) 1x PCI-E 3.0 x8 (in x16) 1x PCI-E 3.0 x16	1x PCI-E 3.0 x8 (internal) 1x PCI-E 3.0 x16
NVMe Ports	2	2	4	0	0	0
Compatible Motherboards	X10DRU-i+ X10DRU-X	X10DRU-i+	X10DRU-i+	X10DRU-i+	X10DRU-i+ X10DRU-X	X10DRU-i+ X10DRU-X
Compatible Systems	SYS-6018U-TRTP+ SYS-1028U-TNRT+	SYS-1028U-E1CRTP+	TBD	TBD	SYS-2028U-TR4+ SYS-6028U-TR4+ SYS-6028UX-TR4	SYS-2028U-TR4+ SYS-6028U-TR4+

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NEW!



Model	AOC-2UR66-i4G	AOC-2UR68-i2XT	AOC-2URN4-i4XT	AOC-2UR8N4-i2XT	AOC-2UR68-i2XS	AOC-2UR6N4-i4XT	AOC-2UR68-m2TS
Form Factor	2U Ultra Riser	2U Ultra Riser	2U Ultra Riser	2U Ultra Riser	2U Ultra Riser	2U Ultra Riser	2U Ultra Riser
Controller Type	GbE	10GBase-T	10GBase-T	10GBase-T	10G SFP+	10GBase-T	25GbE
Chipset	Intel® i350	Intel® X540	Intel® X540	Intel® X540	Intel® 82599ES	Intel® X550	Mellanox® ConnectX-4 Lx EN
Port #	4	2	4	2	2	4	2
Connector	RJ45	RJ45	RJ45	RJ45	SFP+	RJ45	SFP28
PCI-E Slot	2x PCI-E 3.0 x16	1x PCI-E 3.0 x8 (internal) 1x PCI-E 3.0 x8 (in x16) 1x PCI-E 3.0 x16	1x PCI-E 3.0 x8 (internal)	1x PCI-E 3.0 x8 (internal) 1x PCI-E 3.0 x8 (in x16)	1x PCI-E 3.0 x8 (internal) 1x PCI-E 3.0 x8 (in x16) 1x PCI-E 3.0 x16	1x PCI-E 3.0 x16	1x PCI-E 3.0 x8 (internal) 1x PCI-E 3.0 x8 (in x16) 1x PCI-E 3.0 x16
NVMe Ports	0	0	4	4	0	4	0
Compatible Motherboards	X10DRU-i+ X10DRU-X	X10DRU-i+ X10DRU-X	X10DRU-i+ X10DRU-X	X10DRU-i+ X10DRU-X	X10DRU-i+ X10DRU-X	X10DRU-i+	X10DRU-i+
Compatible Systems	SYS-2048U-RTR4	SYS-2028U-TRT+ SYS-6028U-TRT+	SYS-2028U-TNR4T+ SYS-6028U-TNR4T+ SYS-2028U-E1CN4T+ SYS-6028U-E1CN4T+	SYS-2028U-TNRT+ SYS-6028U-TNRT+ SYS-2028U-E1CNRT+ SYS-6028U-E1CNRT+	SYS-2028U-TRTP+ SYS-6028U-TRTP+	SYS-2028U-T24RT+	TBD

* Available as integrated solutions with Supermicro servers.

FatTwin™ supports MicroLP Network Cards



Model	AOC-CIBF-m1	AOC-CTGS-i2T	AOC-CTG-i2T	AOC-CTG-i2S	AOC-CTG-i1S	AOC-CGP-i2	AOC-C25G-m1S
Form Factor	MicroLP	MicroLP	2U MicroLP	MicroLP	MicroLP	MicroLP	MicroLP
Description	Single-port IB FDR/40G Ethernet	Dual-port 10GBase-T with NC-SI	Dual-port 10GBase-T	Dual-port 10GbE SFP+	Single-port 10GbE SFP+ with NC-SI	Dual-port GbE	Single-port 25GbE with NC-SI
Interface	PCI-E 3.0 x8	PCI-E 3.0 x4	PCI-E 2.0 x8	PCI-E x8	PCI-E x8	PCI-E x4	PCI-E 3.0 x8
Port	1 QSFP port / 2 USB ports	2 RJ45 ports	2 RJ45 ports	2 SFP+ ports / 2 USB ports	1 SFP+ port / 2 USB ports	2 RJ45 ports	1 SFP28 ports
Speed	56Gb/port (IB) or 40Gb/port (Ethernet)	10Gb/port	10Gb/port	10Gb/port	10Gb/port	1Gb/port	25Gb/port
Controller	Mellanox® ConnectX-3 FDR	Intel® X550	Intel® X540	Intel® 82599ES	Intel® 82599EN	Intel® i350	Mellanox ConnectX-4 Lx EN
Dimension (LxW) (without end brackets)	4.85" x 1.54" (12.3 x 3.9cm)	4.45" x 1.54" (11.3 x 3.9cm)	4.8" x 2.75" (12.3 x 7.0cm)	4.85" x 1.54" (12.3 x 3.9cm)	4.45" x 1.54" (11.3 x 3.9cm)	4.45" x 1.54" (11.3 x 3.9cm)	4.45" x 1.54" (11.3 x 3.9cm)
F617R2-R*/F618R2-R* (FatTwin 8 node RIO)	Compatible with 1U bracket	Compatible with 1U bracket	N/A	Compatible with 1U bracket	Compatible with 1U bracket	Compatible with 1U bracket	TBD
F627R3-R*/F628R3-R* (FatTwin 4 nodes RIO)	Compatible with 2U bracket	Compatible with 2U bracket	Compatible with 2U bracket	Compatible with 2U bracket	Compatible with 2U bracket	Compatible with 2U bracket	TBD
F627R2-RTB+* (FatTwin 4 Nodes)	Compatible with 2U bracket	Compatible with 2U bracket	Compatible with 2U bracket	Compatible with 2U bracket	Compatible with 2U bracket	Compatible with 2U bracket	TBD
F627R2-RT+* (FatTwin 4 Nodes)	Compatible with 2U bracket	Compatible with 2U bracket	Compatible with 2U bracket	Compatible with 2U bracket	Compatible with 2U bracket	Compatible with 2U bracket	TBD

Accessory Modules

MCP-240-42408-ON-PAC	Mounting bracket for the Coprocessor card for configurations using the Coprocessor
MCP-220-93801-OB	HDD hot swap bracket that includes the 3.5" to 2.5" adapter plate
MCP-240-00134-ON	Adapter bracket to mount a 2.5" drive into an IO expansion slot
MCP-240-00131-1N	Adapter bracket to mount a 2.5" drive on to a 3.5" drive bay in the FatTwin Hadoop.
MCP-220-00044-ON	Adapter bracket to mount two 2.5" drives on to a 3.5" drive tray in the F617R3
SFT-00B-LIC	License key for enabling OOB BIOS management
SFT-DCMS-Single	Datacenter Server Management Software Package

* Uses 2 right angle SATA cables (CBL-0231L)

Trusted Platform Module (TPM)

Provisioned TPM

TPM	Types	Differentiators	FormFactors	Pictures	Model Numbers
Provisioned TPM+TXT	Server (S)	96-Byte index Memory Support: Intel® Xeon® Processor E5, Intel® Xeon® Processor E7	Vertical (V)		AOM-TPM-9655V-S AOM-TPM-9665V-S
			Horizontal (H)		AOM-TPM-9655H-S AOM-TPM-9665H-S
	Client (C)	48-Byte index Memory Support: Intel® Xeon® Processor E3 Intel® Core™ i7 Processor, Intel® Core™ i5 Processor	Vertical (V)		AOM-TPM-9655V-C AOM-TPM-9665V-C
			Horizontal (H)		AOM-TPM-9655H-C AOM-TPM-9665H-C

TPM Products

TCG	Model #	Form Factor	TXT*	MB Platform	Supported CPUs
TPM 1.2	AOM-TPM-9655V	Vertical	N/A	Intel® & AMD	Any MB's Supported CPU
	AOM-TPM-9655V-S	Vertical	Server	Intel®	Intel® Xeon® Processor E5, Intel® Xeon® Processor E7
	AOM-TPM-9655V-C	Vertical	Client	Intel®	Intel® Core™ i5 Intel® Core™ i7 Processor, Intel® Core™ i5 Processor & Intel® Xeon® Processor E3
	AOM-TPM-9655H	Horizontal	N/A	Intel® & AMD	Any MB's Supported CPU
	AOM-TPM-9655H-S	Horizontal	Server	Intel®	Intel® Xeon® Processor E5, Intel® Xeon® Processor E7
	AOM-TPM-9655H-C	Horizontal	Client	Intel®	Intel® Core™ i5 Processor Intel® Core™ i7 Processor, Intel® Xeon® Processor E3
TPM 2.0	AOM-TPM-9665V	Vertical	N/A	Intel	Any MB's Supported CPU
	AOM-TPM-9665V-S	Vertical	Server	Intel®	Intel® Xeon® Processor E5, Intel® Xeon® Processor E7
	AOM-TPM-9665V-C	Vertical	Client	Intel®	Intel® Core™ i3 Processor, Intel® Core™ i5 Processor, Intel® Core™ i7 Processor, Intel® Xeon® Processor E3
	AOM-TPM-9665H	Horizontal	N/A	Intel	Any MB's Supported CPU
	AOM-TPM-9665H-S	Horizontal	Server	Intel®	Intel® Core™ i5 Processor, Intel® Core™ i7 Processor
	AOM-TPM-9665H-C	Horizontal	Client	Intel®	Intel® Core™ i5 Processor, Intel® Core™ i7 Processor, Intel® Xeon® Processor E3

* TPM Provisioning is required for TXT function, selecting server or client provisioning depends on the CPU and MB that is going to be used

100G 48-port Intel® Omni Path Top-of-Rack Switch SSH-C48Q

High Performance, High Density, Low latency, 100-Gigabit Intel® Omni Path Architecture, Meets the Most Demanding Applications for HPC.

Supermicro SuperSwitch Solution Benefit Highlights

- 1U TOR 100 Gb/s 48-Port
- 9.6 Tb/s Switching Capacity
- Optimized for High Message Rates and Low End-to-End Latency
- Out-of-Band Fabric Management Card (Optional)
 - Ethernet (10/100/1000 Base-T) and USB Serial Console
- Redundant Hot-Pluggable 750W **Platinum Level** Power Supplies
- Redundant Cooling



SSH-C48Q



Rear View

The Supermicro SSH-C48Q 1U 48-port top-of-rack network SuperSwitch supports the 100Gbps Intel® Omni Path Architecture (OPA) providing a unique HPC cluster solution offering excellent bandwidth, latency and message rates that is highly scalable and easily serviceable.

The SSH-C48Q leverages the Intel Scalable System Framework (SSF) to address evolving demands across high performance data analytics, machine learning, visualization, traditional modeling and simulation workloads. Designed specifically for HPC, the 48-port SSH-C48Q offers 9.6 Tb/s total fabric bandwidth and high scalability with the capability of 27,648 nodes in a 2-tier configuration. The Supermicro SSH-C48Q is designed to overcome the scaling challenges of large-sized clusters.

High Message Rate Throughput

The SSH-C48Q is designed to support high message rate traffic from each node through the fabric. That means the fabric can support the high bandwidth as well as high message rate throughput associated with the ever-increasing processing power and core counts of Intel® Xeon® Processor and Coprocessors.

48-port Switch ASIC

With a 48-port design the SSH-C48Q provides improved fabric scalability, reduced latency, increased density, reduced cost, and lower power demand. It is the basis of the SSH-C48Q capacity of 9.6 Tb/s fabric bandwidth and high scalability to 27,648 nodes in 2-tier configurations.

Deterministic Latency

Features in the Intel OPA optimize the performance impacts of large Maximum Transmission Units (MTUs) on small messages. They help maintain consistent latency for inter-process communication (IPC) messages, such as Message Passing Interface (MPI) messages, when large messages—typically storage—are being simultaneously transmitted in the fabric. Intel® OPA can bypass lower priority large packets, giving higher priority to small packets, creating a lower and more predictable latency through the fabric.

Enhanced End-to-End Reliability

The Supermicro SSH-C48Q also delivers its own unique error detection and correction which is more efficient than the forward error correction (FEC) defined in the InfiniBand standard. Enhancements include zero load for detection - if a correction is required, packets only need to be retransmitted from the last link—not all the way from the sending node. This gives near-zero additional latency.

Ports	• 48 x 100 Gb/s ports – QSFP28 • RJ45 1G optional management port • USB serial console port	
Switching	• Switching capacity 9.6 Tb/s total fabric bandwidth • Optimized high message rate • Optimized error detection/correction and low latency • Capability of 27,648 nodes in 2-tier configuration • Virtual lanes: Configurable from one to eight VLs plus one management VL	• Configurable MTU size of 2KB, 4KB, 8KB, or 10KB • Maximum multicast table size: 8192 entries • Maximum unicast table size: 49151 entries • Passive copper or active fiber cables
Management	• Out-of-band management card (optional) • Enables Command Line Interface and Chassis Management GUI through 10/100/1000 Base -T Ethernet	• Enables Serial Console through USB Serial Port • Fabric Management GUI
Physical/Environmental	• Dimensions 17.2" W x 16.6" D x 1.72" H • Weight 16 lbs / 7.26 kg	• Operating Temperature: 0°C to 40°C (32°F to 104°F) • Forward Direction Air Flow
Power	• Redundant Hot-Pluggable 750W Platinum Level Power Supplies • AC Input: 100-127V/200-240 V, 50-60 Hz	• Power consumption: - 210 W (Copper) - 380 W (All max 3W Optical)

Layer 2 Ethernet Switches

Cost-effective 1-Gigabit Ethernet networking including a Power-over-Ethernet model and featuring Energy Efficient Ethernet – **We Keep IT Green®**

Rear View



Model	SSE-G2252P (52 ports; 48 with Power-over-Ethernet)		SSE-G2252 (52 ports)	
General Specifications:	48 RJ45 10/100/1000 Mbps Ports 4 SFP 1-G Ports - Non-Blocking - Standard L2 Features - IPv4 and IPv6 - RJ45 Console Port: Web Management, CLI - Power-over-Ethernet (IEEE802.3at) - Up to 30W per port - Up to 400W total PoE budget		48 RJ45 10/100/1000 Mbps Ports 4 SFP 1-G Ports - Non-Blocking - Standard L2 Features - IPv4 and IPv6 - RJ45 Console Port: Web Management GUI, CLI	
Switching Capacity	• 104 Gbps		• 104 Gbps	
Energy Efficient Ethernet	• 802.3az		• 802.3az	
Power Supply	• 500W		• 65W	
Weight	• 11.7 lbs / 5.3kg		• 6.8 lbs / 3.1kg	
Dimensions (WxDxH)	• 440 x 379 x 43mm (17.3" x 14.9" x 1.7")		• 440 x 279 x 43mm (17.3" x 11" x 1.7")	
Switching Features	16K MAC address entries - Link Aggregation 802.3ad with LACP - Up to 12 aggregation groups up to 8 ports per group	- Double tagging: 802.1Q-in-Q 802.1ad provider bridge - Unqualified learning and forwarding	- Storm protection - Broadcast - Multicast - IGMP: - IGMP snooping v1/v2/v3	- Spanning tree 802.1D spanning tree 802.1s multiple - Jumbo frames up to 9KB
VLAN	802.1Q tagging, port and protocol based - Dynamic VLAN Support (GVRP)		4K VLANs; 256 active - Voice VLAN support	
Quality of Service (QoS)	- L2/L3/L4 Traffic Classification/ Priority Management - Deficit WRR and Strict Priority Scheduling	- Traffic shaping - IP based (all ports) - Port based (all ports) - Port based shaping QoS aware 4 priority queues per port - IPv4/v6 DiffServ	- Per port bandwidth management - Resolution 64KB - Packet prioritization based on ingress/egress ports using pre-defined value	- Ingress/Egress metering at 64KB increments - Ingress/egress policer - Ingress and egress co-work
Security Features	802.3x Port-Based Authentication - Switch access password protection		RADIUS and TACACS+ Authentication	SSH/SSL Encryption
Management Features	- Web-based management interface – HTTP/HTTPS - Telnet (4 sessions) - SNMP	- Industry standard CLI with telnet, SSH, or local management port - Scripting capability - Command completion - Context-sensitive "Help"	- Software upgrade/download - Multiple configuration file upload/download by TFTP and HTTP	- Auto upgrade - DHCP functions - Telnet-Server - SNMP v1/v2c/v3 - RMON
PoE Features	- Compliant with IEEE 802.3af-2003 & IEEE 802.3at-2009 - PoE on 10/100/1000Base-T ports only (ports 1~48) - Power start/stop (remote sense) - Power feeding over 1/2 and 3/6 data twisted pair of Cat. 5 UTP/STP cable - Independent overload and short-circuit protection for each port - LED indicators for power status per port - Per port configuration - Port priority configuration - IEEE 802.3af/IEEE 802.3at MIB for Power over Ethernet function			
Operating Temperature	• 0 ~ 50°C			

Layer 2/3 Ethernet Switches

Enterprise-class performance with advanced switching capabilities in a 1U form factor.
Highly cost-effective 1/10-Gigabit Ethernet Networking – Standalone or Top-of-Rack.

Rear View



Model	SSE-G48-TG4	SSE-G24-TG4
Port Attributes	48 One Gigabit Ethernet ports 48 RJ45 Copper ports - Four fiber SFP combo ports - Out-of-band RS-232 Management port - Up to four 10-Gigabit Ethernet uplinks - Up to two stacking ports	24 One Gigabit Ethernet ports 24 RJ45 Copper ports - Four fiber SFP combo ports - Out-of-band RS-232 Management port - Up to four 10-Gigabit Ethernet uplinks - Up to two stacking ports
Switching Capacity	184 Gbps	136Gbps
Stacking Performance	Up to 48 Gbps	Up to 48 Gbps
Power Consumption	145W	105W
Weight	13.7 lbs / 6.20 kg (w/ modules) 13.4 lbs / 6.06 kg (w/o modules)	12.6 lbs / 5.70 kg (w/ modules) 12.2 lbs / 5.54 kg (w/o modules)
Dimensions (WxDxH)	440 x 387 x 43mm (17.3" x 15.2" x 1.7")	
Availability	- Spanning Tree (802.1D) - Rapid Spanning Tree (802.1w)	- Multiple Spanning Trees (802.1s) - Virtual Redundant Routing Protocol (VRRP)
VLAN	802.1Q tagging, port and protocol based - Dynamic VLAN Support (GVRP)	1K Static VLANs
Quality of Service and DiffServ	8 priority queues per port - Adjusted WRR and Strict Priority Scheduling - Layer 2, 3, 4 Prioritization	- Marking - Metering / Rate limiting
Switching Features	- Link Aggregation - 24 groups with 8 members per group - LACP Support - Link Layer Discovery Protocol (802.1AB)	- Jumbo Frames up to 9KB - Port Mirroring – N to 1. Tx & Rx Configurable
Routing Features	- Static Routing, RIP v1/v2, RIPvng, OSPF v1/v2/v3 and BGP - IPv4 and IPv6 Routing	- VRRP (Virtual Router Redundancy Protocol) - DVMRP (Distance Vector Multicast Routing Protocol)
Multicast	- IGMP Snooping v1, v2, v3 - IGMP v1, v2, v3	- PIM SM, PIM DM - PIM SMv6
Security Features	802.3x Port Based Authentication - Switch access password protection - Layer 2, 3, 4 Access Control Lists (256 rules)	- RADIUS and TACACS+ Authentication - SSH, SSL Encryption
Management Features	- Web-based management interface – HTTP/HTTPS - Telnet - SNMP - Industry standard CLI with telnet, SSH, or local management port - Scripting capability - Command completion - Context-sensitive "Help"	- Multiple levels of user privilege (CLI and Web UI) - SNMP v1, v2, v3 - Four RMON Groups - (1, 2, 3 and 9) - Logging – syslog - Dual firmware images - Configuration file - upload / download
Operating Temperature	0 ~ 40°C	

Options (order at least one, maximum two with each SSE-G24-TG4 or SSE-G48-TG4)



AOM-SSE-X2F

Two-port XFP connector module
for fiber connections



AOM-SSE-X2S

Two-port SFP+ connector module
for copper or fiber connections and for stacking

Layer 2/3 Ethernet Switches

Enterprise-class performance with advanced switching capabilities in a 1U form factor.
Highly cost-effective 10-Gigabit Ethernet Networking – Standalone or Top-of-Rack.



Model	SSE-X24S/SR	SSE-X3348S/SR	SSE-X3348T/TR
Port Attributes	24 Ten Gigabit Ethernet ports – SFP+ Connectors 1 One-Gigabit Ethernet port – RJ45 Connector - Out-of-band RS-232 Management port	48 Ten-Gigabit Ethernet ports – SFP+ Connectors 4 Forty-Gigabit Ethernet ports – QSFP Connectors 2 One-Gigabit Ethernet ports – RJ45 Connectors - Out-of-band RS-232 Management port	48 Ten-Gigabit Ethernet ports – 10GBase-T RJ45 connectors 4 Forty-Gigabit Ethernet ports – QSFP Connectors 2 One-Gigabit Ethernet ports – RJ45 Connectors - Out-of-band RS-232 Management port - Energy Efficient Ethernet- IEEE 802.3az
Switching Capacity	480 Gbps	1284 Gbps	1284 Gbps
Power Consumption	176W (Redundant Power Supplies) - Reverse airflow model available	326W (Redundant Power Supplies) - Reverse airflow model available	357W (Redundant Power Supplies) - Reverse airflow model available
Weight	16.7 lbs / 7.58 kg	18.1 lbs / 8.2 kg	20.3 lbs / 9.22 kg
Dimensions (WxDxH)	440 x 387 x 43mm (17.3" x 15.2" x 1.7")	438 x 473 x 43mm (17.3" x 18.6" x 1.7")	438 x 473 x 43mm (17.3" x 18.6" x 1.7")
Availability	- Spanning Tree (802.1D) - Rapid Spanning Tree (802.1w)	- Multiple Spanning Trees (802.1s) - Virtual Redundant Routing Protocol (VRRP)	
VLAN	802.1Q tagging, port and protocol based - Dynamic VLAN Support (GVRP)	4K Static VLANs	
Data Center	DCBx		
Quality of Service and DiffServ	8 priority queues per port - Adjusted WRR and Strict Priority Scheduling - Layer 2, 3, 4 Prioritization	- Marking - Metering / Rate limiting	
Switching Features	- Link Aggregation – 24 groups with 8 members per group - MLAG support - LACP Support	- Link Layer Discovery Protocol (802.1AB) - Jumbo Frames up to 9KB - Port Mirroring – N to 1. Tx & Rx Configurable	
Routing Features	- Static Routing, RIP v1/v2, RIPng, OSPF v1/v2/v3 and BGP - IPv4 and IPv6 Routing	- VRRP (Virtual Router Redundancy Protocol) - DVMRP (Distance Vector Multicast Routing Protocol)	
Multicast	- IGMP Snooping v1, v2, v3 - IGMP v1, v2, v3	- PIM SM, PIM DM - PIM SMv6	
Security Features	802.3x Port Based Authentication - Switch access password protection - Layer 2, 3, 4 Access Control Lists (256 rules)	- RADIUS and TACACS+ Authentication - SSH, SSL Encryption	
Management Features	- Web-based management interface – HTTP/HTTPS - Telnet - SNMP - Industry standard CLI with telnet, SSH, or local management port - Scripting capability - Command completion - Context-sensitive "Help"	- Multiple levels of user privilege (CLI and Web UI) - SNMP v1, v2, v3 - Four RMON Groups – (1, 2, 3 and 9) - Logging – syslog - Dual firmware images - Configuration file – upload / download	
Operating Temperature	0 ~ 40°C	0 ~ 47°C	0 ~ 45°C

Open Networking Ethernet Switches

The SSE-G3648B/SSE-G3648BR, SSE-X3648S/SSE-X3648SR, and SSE-C3632S/SSE-C3632SR switches are ideal for deployment in Data Center, Cloud and Enterprise environments with the capability of handling access for the most demanding applications. All are available as a reverse-airflow model for use in large data centers with alternating hot and cold equipment aisles. And all are equipped with a second, redundant power supply (optional on SSE-G3648B/SSE-G3648BR). Pre-loaded with the Open Network Install Environment (ONIE), all three are ready for your networking operating system of choice. Supermicro recommends the use of Cumulus Linux – these switches are all listed on the Hardware Compatibility List (HCL) of Cumulus Networks. Cumulus Linux is an OS for open networking incorporating a true Linux distribution with extensive networking features plus hardware acceleration of routing and switching functions. By using many of the same tools employed for servers, Cumulus Linux enables affordable scalability with clear CapEx savings and even greater OpEx savings; it unleashes rapid innovation via custom, open source or commercial Linux tools and applications. The embedded X86 Linux-based controller is particularly well suited for running the provisioning tools which are typically used for servers. Contact Cumulus Networks (www.cumulusnetworks.com) for more details and ordering information.

With these bare metal switches Supermicro customers have the opportunity to choose the hardware/software combination that best suits their own individual networking environment. And with Supermicro product reliability and support, customers can rest assured that their investment is truly protected.

Layer 2/3



Rear View



Layer 2/3



Layer 2/3



Model	SSE-G3648B/BR	SSE-X3648S/SR	SSE-C3632S/SR
Port Specifications	48 x 1Gbps Ethernet RJ45 ports 4 x 10Gbps Ethernet SFP+ ports - RJ-45 Ethernet management port - RJ45 (for console cable)	48x Ten-Gigabit Ethernet ports – SFP+ 6x Forty-Gigabit Ethernet ports – QSFP+ - RJ-45 (for console cable) - RJ-45 1G Ethernet Management Port - USB	32 x 40Gbps Ethernet QSFP28 ports 32 x 100Gbps Ethernet QSFP28 ports 1 x 10Gbps Ethernet SFP+ ports - RJ-45 Gigabit Ethernet management port - RJ-45 serial console - Type A USB 2.0 port
Data Forwarding	- Switching Capacity – 176 Gbps - Broadcom Helix4 Switch Chip - Wire-speed Layer 3 Routing 1:1 Non-blocking connectivity	- Switching Capacity - 1440 Gbps - Broadcom Trident II Switch Chip - Wire-speed Layer 3 Routing 1:1 Non-blocking connectivity	- Switching Capacity - 6.4Tbps - Broadcom Tomahawk Switch Chip - Wire-speed Layer 3 Routing 1:1 Non-blocking connectivity
Control Plane	- Intel® CPU 2GB DRAM 8GB SSD - ONIE - Cumulus Linux Ready	- Intel® CPU 4GB DRAM 16GB SSD - ONIE - Cumulus Linux Ready	- Intel® CPU 4GB DRAM 16GB SSD - ONIE - Cumulus Linux Ready
Power	- Hot-pluggable 200W power supply - Optional second redundant power supply - AC Input: 100-127/200-240 V, 50/60 Hz - Power Consumption: < 85.2 Watts	- Redundant, hot-pluggable, 460W power supplies - AC Input: 100-127/200-240 V, 50/60 Hz - Power Consumption: 305 Watts	- Redundant, hot-pluggable, 800W power supplies - AC Input: 100-127/200-240 V, 50/60 Hz - Power Consumption: 650 Watts
Physical/Environmental	- Weight: Net weight: 8.18kg (with 2 PSUs) - Regular and Reverse Airflow Models - Size (W x D x H): 434 x 320 x 44 mm (17.1 x 11.2 x 1.73 in.) - Temperature: Operating 0°C to 45 °C (32°F to 113°F) - Humidity -Operating: 5% to 95% (non-condensing)	- Weight: Net weight: 10.13kg (22.29 lb with 2 PSUs) - Regular and Reverse Airflow Models - Size (W x D x H): 434 x 550 x 44 mm (17.1 x 21.6 x 1.73 inches) - Temperature: Operating 0°C to 40 °C (32°F to 104°F) - Humidity - Operating: 5% to 95% (non-condensing)	- Weight: Net weight: 10.18kg (22.29 lb with 2 PSUs) - Regular and Reverse Airflow Models - Size (W x D x H): 434x 520 x 44 mm (17.1 x 20.47 x 1.73 inches) - Temperature: Operating 0°C to 40 °C (32°F to 104°F) - Humidity - Operating: 5% to 95% (non-condensing)
General	- Bare metal - ONIE Installed 1U form factor for flexible installation - Mounting Flanges (included)	- Bare metal - ONIE Installed 1U form factor for flexible installation - Mounting Rails (included)	- Bare metal - ONIE Installed 1U form factor for flexible installation - Mounting Rails (included)
Optional Power Supply	- PWS-FRU-G3648-1F Second (for redundancy) power supply for SSE-G3648B Ethernet Switch. Forward Airflow - PWS-FRU-G3648-1R Second (for redundancy) power supply for SSE-G3648BR Ethernet Switch. Reverse Airflow		

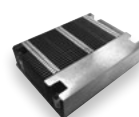
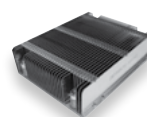
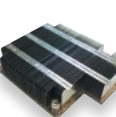
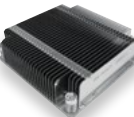
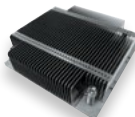
Heatsinks (X11/X10)

X11 Heatsinks 1U/2U/4U Passive/Active CPU Heatsinks for UP, DP, and MP Systems

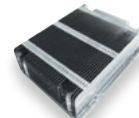
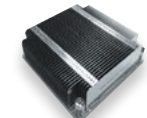
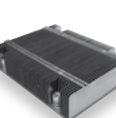
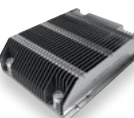
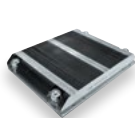
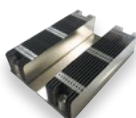


Part Number	SNK-P0067PS	SNK-P0067PSM	SNK-P0067PSMB	SNK-P0068PS	SNK-P0068PSC	SNK-P0068APS4
Form Factor	1U Passive Narrow Retention Mechanism UP/DP	1U Passive Proprietary (Middle Air Channel) Narrow Retention Mechanism DP	1U Passive Proprietary (Middle Air Channel) Narrow Retention Mechanism DP	2U Passive Narrow Retention Mechanism UP/DP	2U Passive Proprietary (Side Air Channel) Narrow Retention Mechanism DP	2U Active Narrow Retention Mechanism UP/DP
CPU Type	Intel® Xeon® Processor Scalable Family – Skylake	Intel® Xeon® Processor Scalable Family – Skylake	Intel® Xeon® Processor Scalable Family – Skylake	Intel® Xeon® Processor Scalable Family – Skylake	Intel® Xeon® Processor Scalable Family – Skylake	Intel® Xeon® Processor Scalable Family – Skylake
Socket Type	LGA 3647-0	LGA 3647-0	LGA 3647-0	LGA 3647-0	LGA 3647-0	LGA 3647-0
Major Integrated Part	Copper Fins Copper + Aluminium Base Heat Pipes	Copper Fins Copper + Aluminium Base Heat Pipes	Copper Fins Copper + Aluminium Base Heat Pipes	Copper Fins Copper + Aluminium Base Heat Pipes	Copper Fins Copper + Aluminium Base Heat Pipes	Aluminium Fins Copper + Aluminium Base Heat Pipes Cooling Fan (Front Side)
Dimension (mm)	108L x 78W x 25.5H	108L x 78W x 25.5H	108L x 78W x 25.5H	108L x 78W x 64H	108L x 78W x 64H	108L x 78W x 64H
Mounting Method	Springs + Screws	Springs + Screws	Springs + Screws	Springs + Screws	Springs + Screws	Springs + Screws

X11/X10, 1U Passive CPU Heatsinks for UP, DP, and MP Systems



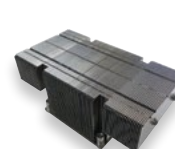
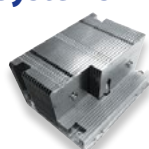
Part Number	SNK-P0070APS4	SNK-P0046P	SNK-P0047P	SNK-P0047PD	SNK-P0047PS	SNK-P0047PSC
Form Factor	4U Active Narrow Retention Mechanism UP/DP	1U Passive, UP (X11/X10/X9)	1U Passive, UP, DP	1U Passive, Proprietary, DP	1U Passive, UP, DP, MP	Proprietary 1U Passive, DP (1U 3/4 GPU/Coprocessor Front CPU)
CPU Type	Intel® Xeon® Processor Scalable Family – Skylake	Intel® Xeon® Processor E3-1200 product family; Intel® Core™ i3 Processor; Intel® Pentium® Processor & Intel® Celeron® Processor	Intel® Xeon® Processor E5-2600 v4/v3/v2 product families	Intel® Xeon® Processor E5-2600 v4/v3/v2 product families	Intel® Xeon® Processor E5-2600 v4/v3/v2, and Intel® Xeon® Processor E5-4600 product families	Intel® Xeon® Processor E5-2600 v4/v3/v2 product families
Socket Type	LGA 3647-0	LGA 1155/1151/1150	LGA 2011 (Square ILM)	LGA 2011 (Square ILM)	LGA 2011 (Narrow ILM)	LGA 2011 (Narrow ILM)
Major Integrated Part	Aluminium Fins Copper + Aluminium Base Heat Pipes Cooling Fan (Front Side)	Copper + Aluminum Base Aluminum Fins Heat Pipes	Aluminum Base Aluminum Fins Heat Pipes	Aluminium Base Aluminium Fins Heat Pipes	Aluminum Base Aluminum Fins Heat Pipes	Aluminum Base Aluminum Fins Heat Pipes
Dimension (mm)	108L x 92.5W x 126H	95L x 95W x 27H mm	90L x 90W x 26H mm	90L x 110W x 27H mm	104L x 80W x 26H mm	104L x 80W x 26H mm
Mounting Method	Springs + Screws	Screws + Springs Mounting Bracket (BKT-0028L Included)	Screws + Springs	Screws + Springs	Screws + Springs	Screws + Springs



Part Number	SNK-P0047PSM	SNK-P0047PSR	SNK-P0047PS+	SNK-P0047PW	SNK-P0057P	SNK-P0057PS
Form Factor	Proprietary 1U Passive, DP (2U Twin2+ Front CPU), Twin Pro2	Low Profile Passive, Proprietary, UP (X10/X9), 12-node MicroCloud Servers	Proprietary 1U Passive, UP (X10/X9) (Micro Cloud Server)	Proprietary 1U Passive, DP (2U Twin2 Rear CPU)	1U Passive, UP, DP	1U Passive, UP, DP, MP
CPU Type	Intel® Xeon® Processor E5-2600 v4/v3/v2 product families	Intel® Xeon® Processor E3-1200 v4/v3/v2 product families; Intel® Core™ i3 Processor; Intel® Pentium® Processor & Intel® Celeron® Processor	Intel® Xeon® Processor E3-1200 v4/v3/v2 product families; Intel® Core™ i3 Processor; Intel® Pentium® Processor & Intel® Celeron® Processor	Intel® Xeon® Processor E5-2600 v4/v3/v2 product families	Intel® Xeon® Processor E5-2600 v4/v3/v2 product families	Intel® Xeon® Processor E5-2600 v4/v3/v2, and Intel® Xeon® Processor E5-4600 product families
Socket Type	LGA 2011 (Narrow ILM)	LGA 1150 & LGA 1155	LGA 1155 & LGA1150, LGA2011 (Narrow ILM).	LGA 2011 (Square ILM)	LGA 2011 (Square ILM)	LGA 2011 (Narrow ILM)
Major Integrated Part	Aluminum Base Aluminum Fins Heat Pipes	Copper + Aluminium Base Copper Fins Heat Pipes	Copper + Aluminum Base Aluminum Fins Heat Pipes	Aluminum Base Copper + Aluminium Fins Heat Pipes	Copper + Aluminum Base Copper Fins Heat Pipes	Copper + Aluminum Base Copper Fins Heat Pipes
Dimension	104L x 80W x 26H mm	104L x 80W x 15H mm	104L x 80W x 30H mm	90L x 116W x 26H mm	90L x 90W x 26H mm	104L x 80W x 26H mm
Mounting Method	Screws + Springs	Springs + Screws	Screws + Springs	Screws + Springs	Screws + Springs	Screws + Springs

Heatsinks (X11/X10)

X10 2U Passive CPU Heatsinks for UP, DP, and MP Systems



Part Number	SNK-P0048P	SNK-P0048PS	SNK-P0048PSC	SNK-P0048PW	SNK-P2048P
Form Factor	2U(+) Passive, UP, DP	2U(+) Passive, UP, DP, MP	Proprietary 2U Passive, DP (2U WIO+ Server)	Proprietary 2U Passive, DP (2U Twin Rear CPU)	Proprietary 2U Passive, DP (HFT Series Servers)
CPU Type	Intel® Xeon® Processor E5-2600 v4/v3/v2 product families	Intel® Xeon® Processor E5-2600 product family and Intel® Xeon® Processor E5-4600 product families	Intel® Xeon® Processor E5-2600 v4/v3/v2 product families	Intel® Xeon® Processor E5-2600 v4/v3/v2 product families	Intel® Xeon® Processor E5-2600 v4/v3/v2 product families
Socket Type	LGA2011 (Square ILM)	LGA2011 (Narrow ILM)	LGA2011 (Narrow ILM)	LGA 2011 (Square ILM)	LGA2011 (Square ILM)
Major Integrated Part	Aluminum Base Aluminum Fins Heat Pipes	Aluminum Base Aluminum Fins Heat Pipes	Aluminum Base Aluminum Fins Heat Pipes	Aluminum Base Copper + Aluminum Fins Heat Pipes	Aluminum Base Aluminum Fins Heat Pipes
Dimension	90L x 90W x 64H mm	104L x 80W x 64H mm	104L x 80W x 64H mm	90L x 116W x 64H mm	90L x 170W x 64H mm
Mounting Method	Screws + Springs	Screws + Springs	Screws + Springs	Screws + Springs	Screws + Springs

X11/X10 Active CPU Heatsinks for UP and DP Systems



Part Number	SNK-P0046A4	SNK-P0048AP4	SNK-P0050AP4	SNK-P2050AP4	SNK-P0051AP4
Form Factor	2U(+) Active, UP (X11/X10/X9)	2U(+) Active, UP, DP	4U Active, UP, DP	Proprietary 4U Active, DP (HFT Series Servers)	4U Active, UP (X11/X10/X9)
CPU Type	Intel® Xeon® Processor E3-1200 v6/v5/v4/v3/v2 product families; Intel® Core™ i3 Processor; Intel® Pentium® Processor & Intel® Celeron® Processor	Intel® Xeon® Processor E5-2600 v4/v3/v2 product families	Intel® Xeon® Processor E5-2600 v4/v3/v2 product families	Intel® Xeon® Processor E5-2600 v4/v3/v2 product families	Intel® Xeon® Processor E3-1200 v6/v5/v4/v3/v2 product families; Intel® Core™ Processors; Intel® Pentium® Processor & Intel® Celeron® Processor
Socket Type	LGA1155/1151/ 1150	LGA 2011 (Square and Narrow ILMs)	LGA 2011 (Square and Narrow ILMs)	LGA 2011 (Square ILM)	LGA1155/1151/ 1150
Material	Copper Base Aluminum Fins Cooling Fan (Top)	Aluminum Base Aluminum Fins Heat Pipes Cooling Fan (Front Side)	Copper Base Aluminum Fins Heat Pipes Cooling Fan (Front Side)	Copper Base Aluminum Fins Heat Pipes Cooling Fan (Middle Side)	Copper Base Aluminum Fins Heat Pipes Cooling Fan (Front Side)
Dimension	90D x 65H mm	85L x 80W x 65L mm	105L x 93W x 126H mm	96L x 130W x 125H mm	105L x 93W x 128H mm
Mounting Method	Push-in Pins	Screws + Springs; Mounting Brackets (BKT-0048L-RS and BKT-0048L-RN Included)	Screws + Springs; Mounting Brackets (for Square and Narrow ILMs Included)	Screws + Springs	Back Plate + Springs + Screws BKT-0028L Included

IPMI (Server Remote Management)

Onboard IPMI 2.0 for (-F) Motherboards/Servers

Onboard IPMI 2.0 for (-F) Motherboards/Servers
Many Supermicro (-F) motherboards now offer IPMI 2.0 capabilities onboard through a dedicated LAN port to support remote management. This convenient remote management capability is provided through an onboard BMC (Baseboard Management Controller) that improves reliability and maintainability while reducing costs. X10 DP motherboards support IPMI 2.0 as a standard feature.

Monitoring Features:

- Monitor CPU and system temperature
- Monitor on-board voltage (12V, 5V, 5Vst_by, Vbat, Vcore, memory voltage)
- Monitor and control fan speed
- Chassis intrusion
- Power status (including PMbus support)
- Memory errors
- CPU errors

Management Features:

- Remote system power control (including ACPI power off)
- Virtual Media and Java based KVM HTML5 (included with price of motherboard)
- SOL (included with price of motherboard)
- E-mail alerts and SNMP traps
- Support for Node Manager
- Mount ISO images

Security Features:

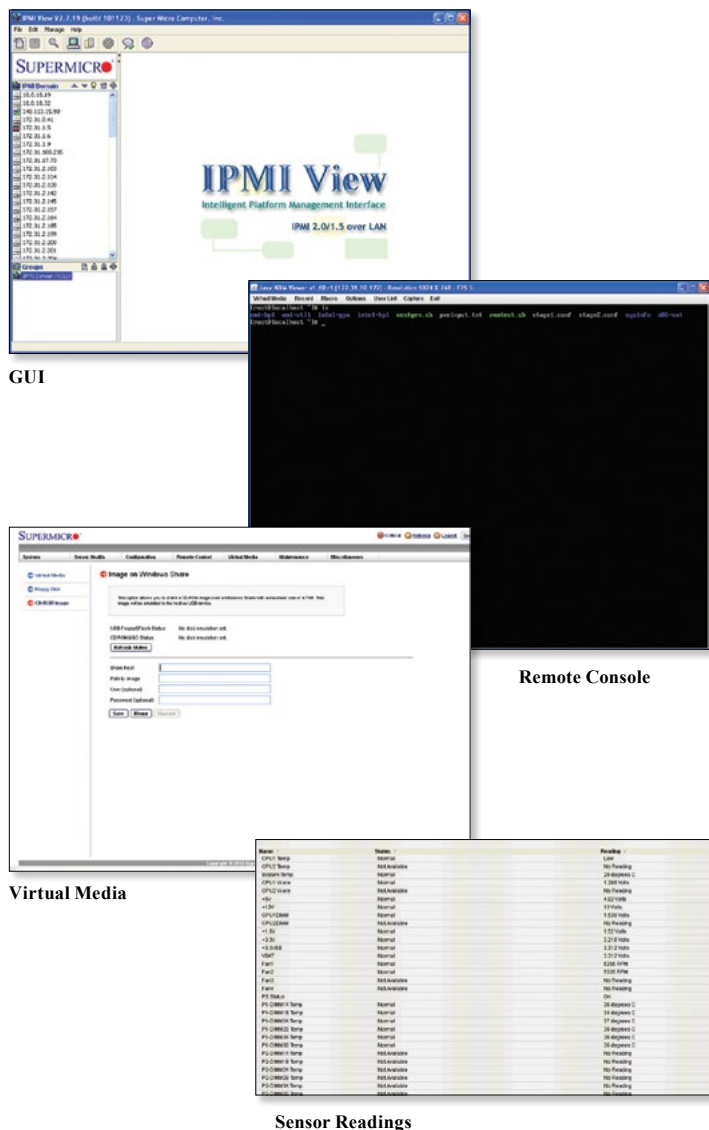
- Firmware firewall
- Restricted access using pre-defined IP address
- Added security with SSL
- Protection from shell injection
- Select/Deselect Services

Easy Maintenance:

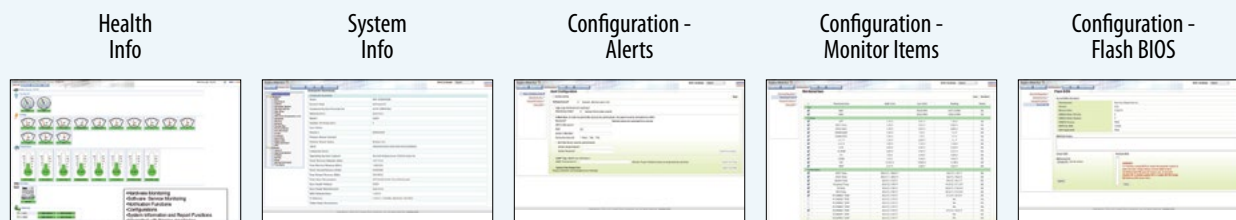
- Configuration utility for DOS, Windows, Linux
- Firmware flash utilities for DOS, Windows, Linux (easy to script)
- Firmware flash using web-browser
- Fail-over access to IPMI over network
- CLI, WEBUI, API and GUI tools to maintain large deployments
- Support OOB BIOS management (for selected HW)

Added-value Features:

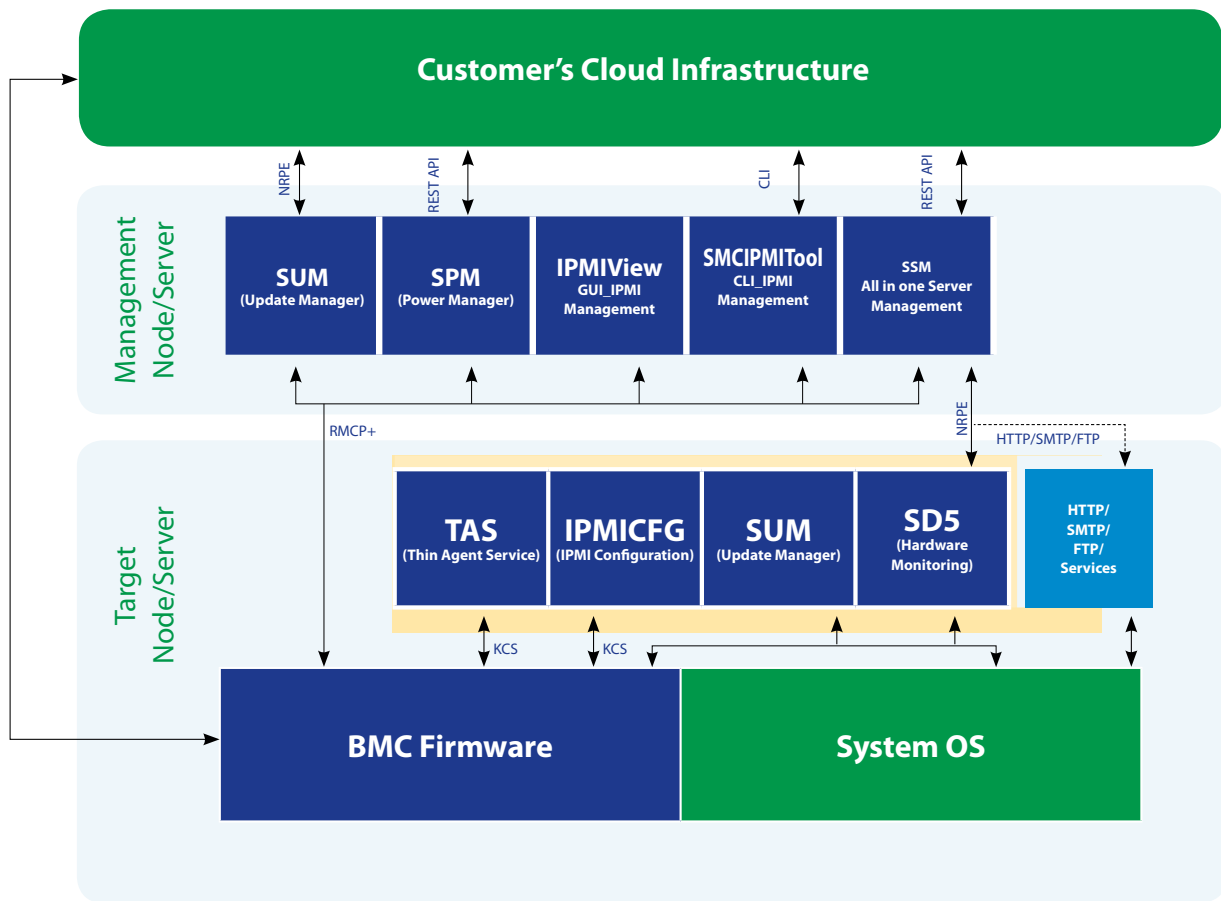
- SMASH
- DCMi
- Active directory and LDAP
- RADIUS



SuperDoctor® Server Management



Server Management Utilities



Supermicro Server Management Utilities

Server management utilities assist data center system administrators to manage hardware issues such as server availability and firmware upgrades to reduce server downtime. Supermicro has developed a multifunction suite of tools that can perform health monitoring, power management and firmware maintenance to help deploy and maintain servers in data centers.

Our solutions are designed for easy automation with existing management infrastructure using CLI and REST APIs. In data centers, Supermicro Server Management Utilities provides you all the necessary functions like:

Remotely managing the health of hardware and operating system services:

Helps IT operators to monitor the health of system components through Agent and Agent-less based solutions

Managing power consumption of nodes in cluster:

Optimize the power consumption of your server rack. Monitor and apply policies to maximize compute density per rack and avoid unexpected server shutdowns.

Managing BIOS provisioning through BMC/IPMI:

Allows you to manage system BIOS upgrades and configurations uniformly across multi-environment deployments through baseboard management controller.

Execute commands on multiple target systems in parallel:

Perform parallel firmware upgrades, system memory and power commands, and many more through SSL and RMCP+.

Execute commands on multiple target systems through Redfish API:

Perform API execution for server health, system inventory, power info, event notification and many more through secure socket layer (SSL).

Software SKUs:

SFT-DCMS-Single:	Per node license for System Management Suite (all packages)
SFT-OOB-LIC:	Per node license for OOB firmware maintenance mechanisms
SFT-SPM-LIC:	Per node license for Power Management Utility

Cables

SFP+ Cables: 10GbE SFP+ to SFP+

	CBL-0347L	100cm (39.4")
	CBL-0348L	300cm (118.1")
	CBL-NTWK-0347	100cm (39.4"), Passive Copper Cable Push Type
	CBL-NTWK-0456	200cm (78.7"), Passive Copper Cable Push Type
	CBL-NTWK-0456	200cm (78.7")
	CBL-0349L	500cm (196.9")
	CBL-NTWK-0594	10m (393.7")
	CBL-SFP+AOC-1M	100cm (39.4"), Active Optical Cable 850 nm SFF-8431
	CBL-SFP+AOC-3M	300cm (118.1"), Active Optical Cable 850 nm SFF-8431
	CBL-SFP+AOC-5M	500cm (196.9"), Active Optical Cable 850 nm SFF-8431

QSFP Cables: 40GbE QSFP to QSFP QDR

	CBL-NTWK-0417-01	100cm (39.8")
	CBL-NTWK-0446-01	300cm (118.1")
	CBL-NTWK-0325-02	200cm (78.7")
	CBL-NTWK-0422-01	500cm (196.9")
	CBL-0467L	700cm (275.6")
	CBL-QSFP+AOC-1M	100cm (39.8")
	CBL-QSFP+AOC-3M	300cm (118.1")
	CBL-QSFP+AOC-5M	500cm (196.9")
	CBL-QSFP+AOC-7M	700cm (275.6")
	CBL-QSFP+AOC-10M	1000cm (393.7")

FDR Cables: 56GbE QSFP+ to QSFP+ FDR

	CBL-0490L	100cm (39.4")
	CBL-0496L	300cm (118.1")

NOTE: All cables are PB free.
 SB = Sideband
 RA = Right Angle
 M = Male
 LP = Comes with low profile bracket

S = Straight
 iPASS = Internal MiniSAS
 F = Female
 RF = Reverse Fanout (Cross Over)

InfiniBand CX4 Cables

	CBL-0474L	100cm (39.4")	CX4 to CX4
	CBL-0475L	1200cm (472.4")	CX4 to CX4
	CBL-0389L	300cm (118.1")	CX4 to CX4
	CBL-0324L	200cm (78.8"), QSFP to INFINIBAND CX4	

SATA Cables: Straight to Straight

	CBL-0473L	21cm (8.3"), 30AWG
	CBL-0483L	29cm (11.4"), 30AWG
	CBL-0484L	55cm (21.7"), 30AWG
	CBL-0481L	81cm (31.9"), 30AWG

SATA Cables: Straight to Right Angle

	CBL-SAST-0639	31cm (12.2")
	CBL-SAST-0640	38cm (15")
	CBL-SAST-0641	45cm (17.7")
	CBL-0488L	55cm (21.7"), 30AWG
	CBL-0489L	70cm (27.6"), 30AWG

40GbE QSFP+ to 4x 10GbE SFP+

	CBL-NTWK-0719	Passive, 1M, 30AWG
	CBL-NTWK-0720	Passive, 3M, 30AWG
	CBL-NTWK-0721	Passive, 5M, 25AWG

Internal MiniSAS to 4 SATA

	CBL-0118L-03	23cm, w/ 25.5cm SB, S, 30AWG
	CBL-0287L-01	43/43/33/33cm, w/ 43cm SB, RA, 30AWG
	CBL-0097L-03	50cm, w/ 50cm SB, S, 30AWG
	CBL-0388L-01	90/90/75/75cm w/ 75cm SB, RA, 30AWG

Internal MiniSAS to 4 SATA Cross Over

	CBL-0294L-02	58cm, w/ 58cm SB, S, 30AWG
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Cables

Internal & External MiniSAS Cables		
	CBL-0109L-02	22cm (8.7"), iPASS to iPASS Cable, 26AWG
	CBL-0108L-02	39cm (15.4"), iPASS to iPASS Cable, 26AWG
	CBL-0421L	55cm (21.7"), iPASS to iPASS Cable
	CBL-0281L-01	75cm (29.5"), iPASS to iPASS Cable, 30AWG
	CBL-0463L	50cm (19.7"), External MiniSAS
	CBL-0166L	100cm (39.4"), External MiniSAS
	CBL-0171L	300cm (118.1"), External MiniSAS
	CBL-0394L	90cm (35.4"), iPASS to iPASS Cable, 26AWG
	CBL-0167L	61cm (24.0"), Ext(1F) to Int(1M)
	CBL-0168L(-LP)	66/61cm (26"/24"), Ext(2F) to Int(2M)
	CBL-0352L(-LP)	85cm (33.56"), Ext(2F)-to-Int(2M)
	CBL-0351L	85cm (33.5"), Ext(1F)-to-Int(1M)
	CBL-0386L	70cm/50cm (27.6"/19.7"), Ext(4F)-to-Int(4M)

New! MiniSAS HD Cables (up to 12Gbps)

Internal MiniSAS (iPASS) to MiniSAS HD Cables		
	CBL-SAST-0507-01	80cm w/ SB, 30AWG
	CBL-SAST-0508-01	50cm w/ SB, 30AWG
Internal MiniSAS HD to MiniSAS HD Cables		
	CBL-SAST-0531	80cm w/ SB, 30AWG
	CBL-SAST-0532	50cm w/ SB, 30AWG
	CBL-SAST-0568	35cm w/ SB, 30AWG
	CBL-SAST-0550	25cm w/ SB, 30AWG
External MiniSAS HD to External MiniSAS HD Cables		
	CBL-SAST-0573	100cm w/ SB, 28AWG
	CBL-SAST-0690	200cm w/ SB, 28AWG
	CBL-SAST-0677	300cm w/ SB, 28AWG

NOTE: All cables are PB free.

SB = Sideband

RA = Right Angle

M = Male

LP = Comes with low profile bracket

S = Straight

iPASS = Internal MiniSAS

F = Female

RF = Reverse Fanout (Cross Over)

Internal MiniSAS HD to 4 SATA Cables		
	CBL-SAST-0664	20cm, 20cm SB, 30AWG
	CBL-SAST-0703	23/13/23/13cm, 30AWG
	CBL-SAST-0704	30/70/60/70cm, 30AWG
	CBL-SAST-0616	50cm, 50cm SB, 30AWG
	CBL-SAST-0699	75/75/90/90cm, 75cm SB, 28/30AWG
	CBL-SAST-0631	RF, 55cm, 55cm SB, 30AWG
	CBL-SAST-0591	RF, 75cm, 75cm SB, 30AWG
	CBL-SAST-0556	RF, RA 90/90, S 75/75cm, 75cm SB, 30AWG
New!	CBL-SAST-0759	12G, INT, 15cm, 15cm SB, 30AWG
Internal MiniSAS HD NVMe Cables		
	CBL-SAST-0623	PCI-E NVMe SSD, 45cm, 30AWG
	CBL-SAST-0658	PCI-E NVMe SSD, 60cm, 30AWG
	CBL-SAST-0590	PCI-E NVMe SSD, 70cm, 30AWG
	CBL-SAST-0698	RA-RA reverse for PCI-E NVMe SSD, 10cm, 30AWG
Internal Oculink NVMe Cables		
New!	CBL-SAST-0818	OCuLink v.91, INT, PCI-E NVMe SSD, 55cm, 34AWG
New!	CBL-SAST-0819	OCuLink v.91, INT, PCI-E NVMe SSD, 65cm, 34AWG
New!	CBL-SAST-0820	OCuLink v.91, INT, PCI-E NVMe SSD, 85cm, 34AWG
New!	CBL-SAST-0849	OCuLink/Backplane to MiniSAS HD/Controller V.91, INT, PCI-E NVMe SSD, 57cm, 34AWG
New!	CBL-SAST-0850	OCuLink/Backplane to MiniSAS HD/Controller V.91, INT, PCI-E NVMe SSD, 37cm, 34AWG
New!	CBL-SAST-0929	OCuLink/Controller to MiniSAS HD/Backplane V.91, INT, PCI-E NVMe SSD, 37cm, 34AWG
New!	CBL-SAST-0930	OCuLink/Controller to MiniSAS HD/Backplane V.91, INT, PCI-E NVMe SSD, 57cm, 34AWG
External Intel® Omni Path 100G Cables		
New!	CBL-NTWK-0892-OPC05	Intel® Omni Path Passive Copper Cable QSFP28 30AWG, 0.5M
New!	CBL-NTWK-0892-OPC10	Intel® Omni Path Passive Copper Cable QSFP28 30AWG, 1M
New!	CBL-NTWK-0892-OPC15	Intel® Omni Path Passive Copper Cable QSFP28 26AWG, 1.5M
New!	CBL-NTWK-0892-OPC20	Intel® Omni Path Passive Copper Cable QSFP28 26AWG, 2M
New!	CBL-NTWK-0892-OPC30	Intel® Omni Path Passive Copper Cable QSFP28 26AWG, 3M
New!	CBL-NTWK-0892-OPF30	Intel® Omni Path Active Fiber Cable QSFP28-MPO, 3M
New!	CBL-NTWK-0892-OPF50	Intel® Omni Path Active Fiber Cable QSFP28-MPO, 5M
New!	CBL-NTWK-0892-OPF100	Intel® Omni Path Active Fiber Cable QSFP28-MPO, 10M
New!	CBL-NTWK-0892-OPF150	Intel® Omni Path Active Fiber Cable QSFP28-MPO, 15M
New!	CBL-NTWK-0892-OPF200	Intel® Omni Path Active Fiber Cable QSFP28-MPO, 20M
New!	CBL-NTWK-0892-OPF300	Intel® Omni Path Active Fiber Cable QSFP28-MPO, 30M
New!	CBL-NTWK-0892-OPF400	Intel® Omni Path Active Fiber Cable QSFP28-MPO, 40M
New!	CBL-NTWK-0892-OPF500	Intel® Omni Path Active Fiber Cable QSFP28-MPO, 50M
New!	CBL-NTWK-0892-OPF600	Intel® Omni Path Active Fiber Cable QSFP28-MPO, 60M

PRODUCT NAMING GUIDE

SYS - 1 0 2 8GR- TRT

1st 2nd 3rd 4th 5th 6th 7th 8th

Servers with 2.5" Hard Drives

Character	Representation	Options
1st	Form Factor	1 = 1U 2 = 2U 3 = 3U 4 = 4U 5 = 5U
2nd	Reserved Digit	
3rd	Number of processor slots	1 = Single processor slot 2 = Dual processor slots 4 = Quad processor slots 8 = Oct processor slots (8 way server)
4th	System Generation	5 = X7 Series 6 = X8 Series 7 = X9 Series 8 = X10 Series
5th	Chipset	A = Atom B = Boxboro (X8) B = Brickland (X10) C = Clarksboro (X7) B = Bigby/Skt B2 C = Cougar Point(X9) G = GPU I = Foxhollow(X7) M = Mukilteo R = Romley / Socket R (X9 / X10) ST = Storage Server T = Tylersburg(X7) xT = x: platform (ex: T-Twin, G-GPU) U = Ultra
6th	HDD Interface	3 = SAS (Intel) 6 = SAS2 (Intel) 70 = SAS2 (Broadcom 2008) 71 = SAS2 (Broadcom 2108) 72 = SAS2 (Broadcom 2208) 73 = SAS2 (Broadcom 2308) 73J = SAS2 (Broadcom 2308 IT mode) C0 = SAS3 (Broadcom 3008) 12Gb C1 = SAS3 (Broadcom 3108) 12Gb A = Workstation D = DCO E = Extension Slot with Riser H = Hot Swap, Six GPUs L = Low Cost M = Mini-Chassis P = Internal slot NT = SATA without UIO T = SATA U = UIO W = WIO N = NVMe
7th	Power Redundancy	R = Redundant power supply E = Expansion Slot
8th	Additional	+ = 18(X8)/24(X9)/32(X9 Quad) DIMM memory F = On board BMC (IPMI) T = 10 Gigabit Ethernet 2 = 2nd Generation GPU 4 = 4 Independent LAN ports

SYS - 6 0 2 8R- C1 R 4+

1st 2nd 3rd 4th 5th 6th 7th 8th

Servers with 3.5" Hard Drives

Character	Representation	Options
1st	Number of processor slots	5 = Single processor slot 6 = Dual processor slots 7 = Dual processor slots (Tower) 8 = Quad processor slots (4 way Server)
2nd	Reserved Digit	
3rd	Form Factor	1 = 1U 2 = 2U 3 = 3U 4 = 4U
4th	System Generation	5 = X7 Series 6 = X8 Series 7 = X9 Series 8 = X10 Series
5th	Chipset	A = Atom B = Boxboro (X8) B = Bigby/Skt B2(X9) B = Brickland (X10) C = Clarksboro (X7) C = Cougar Point(X9) G = GPU I = Foxhollow(X7) M = Mukilteo P = Pxx PR = X9 Twin Pro R = Romley/Socket R(X9/X10) S = Skylake ST = Storage Server T = Tylersburg TP = X10 Twin Pro TR = Twin R Socket xT = x: platform (ex: T-Twin, G-GPU); T: Tylersburg U = Ultra UT = EXDP Twin Pro UX = Hyperspeed
6th	HDD Interface	3 = Intel® SAS 6 = Intel® SAS2 70 = SAS2 (Broadcom 2008) 71 = SAS2 (Broadcom 2108) 72 = SAS2 (Broadcom 2208) 73 = SAS2 (Broadcom 2308) 73J = SAS2 (Broadcom 2308 IT mode) C0 = SAS3 (Broadcom 3008) 12Gbps C1 = SAS3 (Broadcom 3108) 12Gbps A = Workstation D = Desktop, DCO E = Extension Slot with Riser H = Hot Swap L = Low Cost M = Mini-Chassis P = Internal slot NT = SATA without UIO T = SATA U = UIO W = WIO N = NVMe X = 11 Slots, Max IO
7th	Power Redundancy	R = Redundant Power Supply E = Expansion Slot
8th	Additional	+ = 18(X8)/24(X9)/32(X9 Quad) DIMM memory slots F = On board BMC (IPMI, no longer used with X10) P = 10G SFP+ T = 10 Gigabit Ethernet 4 = 4 Independent LAN ports

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