



SuperBlade® / MicroBlade™

Resource Saving Architecture: Save Money & the Earth



4U SuperBlade®
Up to **14x 2S** Blade Servers



6U SuperBlade®
Up to **14x 1S/2S** Blade Servers



3U MicroBlade™
Up to **28x 1S/14x 2S** Nodes



Battery Backup Power



8U SuperBlade®
Up to **20x 2S/10x 4S** Blade Servers



6U MicroBlade™
Up to **112x 1S/28x 2S** Nodes

Advantages

- Supports up to 205W TDP Intel® Xeon® Scalable processors
- 2-socket(2S), 4-socket (4S) and 1-socket (1S) blade servers
- Up to 280 nodes per rack
- Hot-plug U.2 **NVMe**, up to 8 per blade server
- 100G EDR InfiniBand, 100G Intel® Omni-Path, and 25G/10G/1G Ethernet switches
- Redundant AC/DC power supplies
- Battery Backup Power (BBP®) modules
- Supermicro RSD and Redfish RESTful APIs supported
- Free-air cooling designs deliver lowest PUE



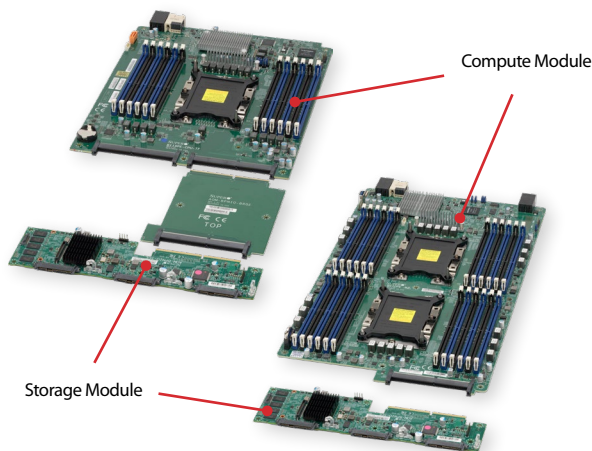
New Generation SuperBlade®

- Enclosures in 8U, 6U and 4U form factors
- 1-socket (1S), 2-socket and 4-socket (4S) blade servers
- Highest performance with 205W TDP Intel® Xeon® Scalable processors
- Redundant (N+1/N+N) 2200W **Titanium Level** (96%+ efficiency) AC power supplies
 - Redundant (N+1/N+N) 2000W DC power supplies
 - Battery Backup Power (**BBP**) modules
 - Free-Air Cooling
- Supermicro RSD and Redfish RESTful APIs supported

6U SuperBlade®

Disaggregated Resource Saving Design for Optimal TCO

- Up to 98x 1S/2S nodes per 42U rack
- Maximum memory capacity - 24 DIMMs (2S), 12 DIMMs (1S)
- 10/14 Blades - 2S or 1S with redundant 25/10G Ethernet switches



Supermicro Disaggregated Server Design

Enabling the independent upgrades of the compute modules



Single or dual Intel® Xeon® Scalable processors supported

Dual 10G, NVMe/SAS3/SATA3

Dual 10G, NVMe/SAS3/SATA3



SBI-6419P-C3N/T3N
SBI-6119P-C3N/T3N



SBI-6429P-C3N/T3N
SBI-6129P-C3N/T3N



8U SuperBlade®

Performance and Density Optimized with 100G Networking

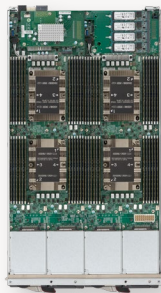
- Up to 100x 2S nodes and 50x 4S nodes per 42U rack
- Highest density platform for machine learning and deep learning
- 10x 4-socket (48 DIMM + 14 **NVMe**) blade servers
- 20x 2-socket (16 DIMM + 7 **NVMe**) blade servers
- Fastest Switches - 100G EDR IB or Intel Omni-Path, 10G/25G Ethernet switches

Dual or Quad Intel® Xeon® Scalable processors

100G* networking, NVMe/SAS3/SATA3 100G* networking, 8 NVMe/SAS3/SATA3



SBI-4129P-C2N/T3N



SBI-8149P-C4N/T8N

*100G: EDR InfiniBand or Intel® Omni-Path Architecture



4U SuperBlade®

Cost and Density Optimized with Lowest Initial Hardware Acquisition Cost

- Up to 140x 2S nodes per 42U rack
- Highest density with 14x 2-socket blades (16 VLP DIMM + 2 **NVMe**) blade servers
- 2x 10G Ethernet switches



Dual Intel® Xeon® Scalable processors supported

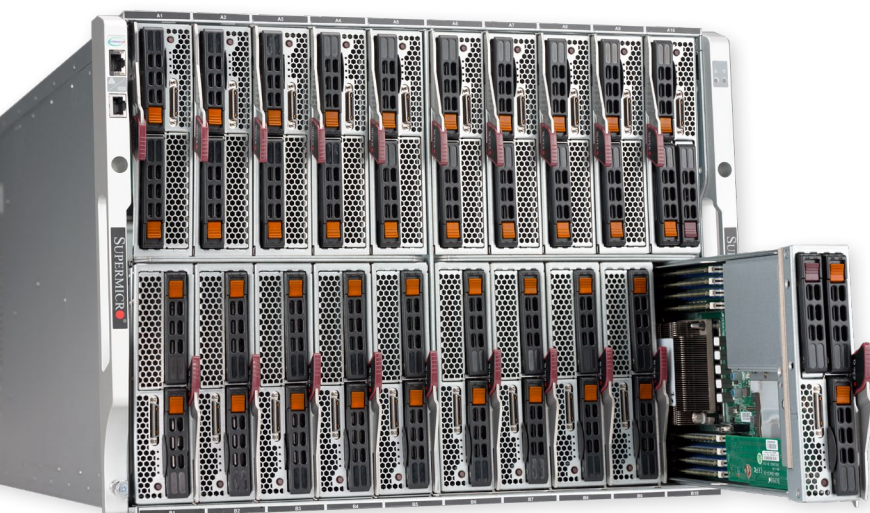
10G, NVMe/SATA3



SBI-4429P-T2N

8U SuperBlade®

Designed for High-Performance Computing and Most Demanding Enterprise Workloads



The 8U SuperBlade® is a density and performance optimized solution for high-performance computing and artificial intelligence applications. The SuperBlade® system supports up to 20x 2-socket servers or 10x 4-socket servers, as well as 1x 100G Intel® Omni-Path Architecture or 100G EDR InfiniBand switch and 2x 10G/1G switches optimized for HPC use cases, or 2x 10G/1G and 2x 25G Ethernet switches for enterprise applications, with open industry standard remote management software for servers, storage and networking.

The enclosures support optional Battery Backup Power (BBP) modules for enhanced reliability and data protection and may replace expensive datacenter UPS systems.

8U SuperBlade® Blade Servers

Up to 20x 2S nodes per enclosure

2-Socket

100G*, NVMe/SAS3/SATA3



SBI-4129P-C2N/T3N

Up to 10x 4S nodes per enclosure

4-Socket

100G*, NVMe/SAS3/SATA3



SBI-8149P-C4N/T8N

*100G: EDR InfiniBand or Intel® Omni-Path Architecture

8U SuperBlade® Enclosures



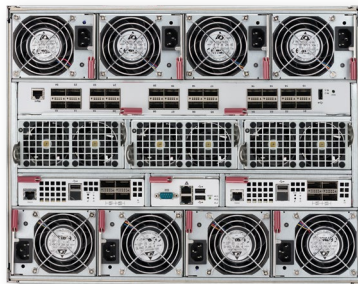
10x 4S Blades*



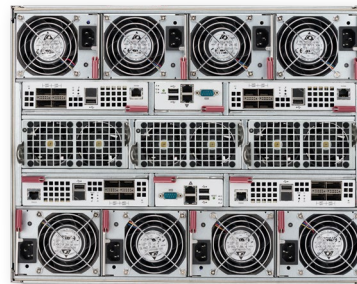
20x 2S Blades*



Mixed Configuration*



SBE-820C*



SBE-820J*

8U Enclosure SBE-820C

Processor Blade	<ul style="list-style-type: none"> Up to 20 hot-pluggable half-height 2-socket blade servers Up to 10 hot-pluggable full-height 4-socket blade servers Mixed blade servers in a single enclosure
LED	Power LED, Fault LED
100G Switch	Single 100G EDR InfiniBand or Intel® Omni-Path Architecture switch with add-on card
10G Ethernet Switch	Up to 2 hot-pluggable 10G Ethernet switches
Management	Single CMM for remote system management with software
Available Models	<ul style="list-style-type: none"> SBE-820C-822: Enclosure with 8 hot-pluggable 2200W Titanium (96% efficiency) power supplies SBE-820C-622: Enclosure with 6 hot-pluggable 2200W Titanium (96% efficiency) power supplies SBE-820C-422: Enclosure with 4 hot-pluggable 2200W Titanium (96% efficiency) power supplies SBE-820C-820D: 8 hot-pluggable 2000W DC power supplies SBE-820C-420D: 4 hot-pluggable 2000W DC power supplies SBE-820CB-422: 4 hot-pluggable 2200W Titanium (96% efficiency) power supplies + 4 hot-pluggable 1200W BBP® modules
Rack Unit	8U
Dimensions (H x W x D)	14" x 17.6" x 32"

8U Enclosure SBE-820J

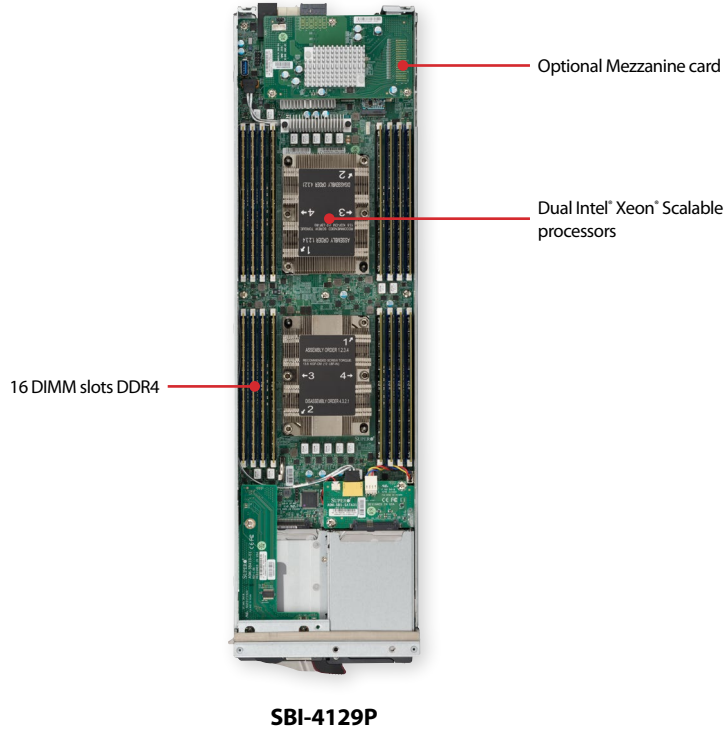
Processor Blade	<ul style="list-style-type: none"> Up to 20 hot-pluggable half-height 2-socket blade servers Up to 10 hot-pluggable full-height 4-socket blade servers Mixed blade servers in a single enclosure
LED	Power LED, Fault LED
25G Ethernet Switch	Up to 2 hot-pluggable 25G/10G Ethernet switches with add-on card
10G Ethernet Switch	Up to 2 hot-pluggable 10G Ethernet switches
Management	Up to 2 hot-pluggable CMMs for remote system management with software
Available Models	<ul style="list-style-type: none"> SBE-820J-822: Enclosure with 8 hot-pluggable 2200W Titanium (96% efficiency) power supplies SBE-820J-622: Enclosure with 6 hot-pluggable 2200W Titanium (96% efficiency) power supplies SBE-820J-422: Enclosure with 4 hot-pluggable 2200W Titanium (96% efficiency) power supplies SBE-820J-820D: 8 hot-pluggable 2000W DC power supplies SBE-820J-420D: 4 hot-pluggable 2000W DC power supplies SBE-820JB-422: 4 hot-pluggable 2200W Titanium (96% efficiency) power supplies + 4 hot-pluggable 1200W BBP® modules
Rack Unit	8U
Dimensions (H x W x D)	14" x 17.6" x 32"

* Actual product may look different depending on blade server, networking and power supply options.

8U SuperBlade® Server Technical Specifications

Dual Intel® Xeon® Scalable Processors Supported

2-socket with Optional 100G EDR/OPA and NVMe

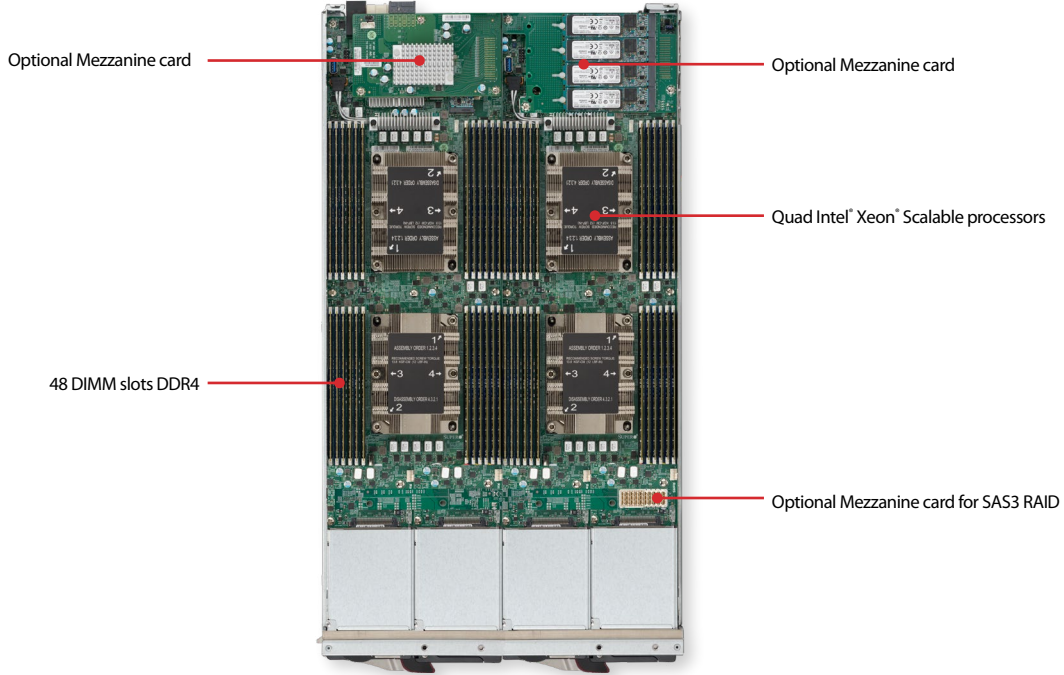


Model	SBI-4129P-C2N	SBI-4129P-T3N
Server Nodes/8U	20	20
Processor	Dual Intel® Xeon® processors Scalable family with UPI up to 10.4 GT/s	Dual Intel® Xeon® processors Scalable family with UPI up to 10.4 GT/s
Chipset	Intel® C620 series	Intel® C620 series
Memory Support	16 DDR4-2666MHz ECC 3DS LRDIMM/RDIMM slots	16 DDR4-2666MHz ECC 3DS LRDIMM/RDIMM slots
Max Memory	2TB	2TB
Expansion & Drive Bays	<ul style="list-style-type: none"> • 2 hot-plug 2.5" NVMe/SAS3/SATA3 drive bays • 1 M.2 NVMe/SATA slots • 4 M.2 NVMe/SATA via mezzanine card 	<ul style="list-style-type: none"> • 2 hot-plug 2.5" NVMe and 1 SATA3 drive bays or 3 SATA3 drive bays • 1 M.2 NVMe/SATA slots • 4 M.2 NVMe/SATA via mezzanine card
Storage RAID	Broadcom® 3108 RAID 0,1 via mezzanine card	Intel® PCH SATA3 RAID 0,1,5
InfiniBand / Intel® OPA	100G EDR InfiniBand / Intel® Omni-Path (Mezzanine card)	100G EDR InfiniBand / Intel® Omni-Path (Mezzanine card)
Ethernet Interface	<ul style="list-style-type: none"> • Dual-port 10G • Dual-port 25G (Mezzanine card) 	<ul style="list-style-type: none"> • Dual-port 10G • Dual-port 25G (Mezzanine card)
Management	<ul style="list-style-type: none"> • IPMI 2.0 • KVM over IP • Virtual Media over LAN • Supermicro RSD 	<ul style="list-style-type: none"> • IPMI 2.0 • KVM over IP • Virtual Media over LAN • Supermicro RSD
LED Indicators	<ul style="list-style-type: none"> • Fault LED • Network Activity LED • Power LED • UID / KVM LED 	<ul style="list-style-type: none"> • Fault LED • Network Activity LED • Power LED • UID / KVM LED
Dimensions (H x W x D)	1.75" x 6.5" x 23.5"	1.75" x 6.5" x 23.5"
Chassis	8U: <ul style="list-style-type: none"> • SBE-820C/J-422 • SBE-820C/J-622 • SBE-820C/J-822 • SBE-820CB/JB-422 	8U: <ul style="list-style-type: none"> • SBE-820C/J-422 • SBE-820C/J-622 • SBE-820C/J-822 • SBE-820CB/JB-422

8U SuperBlade® Server Technical Specifications

Quad Intel® Xeon® Scalable Processors Supported

4-socket with 4x 10G Ethernet, Opt. 100G EDR/OPA and Hot-plug NVMe/SAS3/SATA3



SBI-8149P

Model	SBI-8149P-C4N	SBI-8149P-T8N
Server Nodes/8U	10	10
Processor	Quad Intel® Xeon® processors Scalable family with UPI up to 10.4 GT/s	Quad Intel® Xeon® processors Scalable family with UPI up to 10.4 GT/s
Chipset	Intel® C620 series	Intel® C620 series
Memory Support	48 DDR4-2666 DIMM slots	48 DDR4-2666 DIMM slots
Max Memory	6TB	6TB
Expansion & Drive Bays	<ul style="list-style-type: none"> • 4 hot-plug 2.5" NVMe/SAS3/SATA3 drive bays • 2 M.2 NVMe slots • 4 M.2 NVMe slots on optional Mezzanine card 	<ul style="list-style-type: none"> • 8 hot-plug 2.5" NVMe drive bays or 4 NVMe and 4 SATA3 drive bays • 2 M.2 NVMe slots • 4 M.2 NVMe slots on optional Mezzanine card
Storage RAID	Broadcom® 3108 RAID 0,1,5,10 (Mezzanine card)	Intel® PCH SATA3 RAID 0,1,5,10
InfiniBand / Intel® OPA	100G EDR InfiniBand / Intel® Omni-Path (Mezzanine card)	100G EDR InfiniBand / Intel® Omni-Path (Mezzanine card)
Ethernet Interface	<ul style="list-style-type: none"> • Dual-port 10G • Dual-port 25G (Mezzanine card) 	<ul style="list-style-type: none"> • Dual-port 10G • Dual-port 25G (Mezzanine card)
Management	<ul style="list-style-type: none"> • IPMI 2.0 • KVM over IP • Virtual Media over LAN • Supermicro RSD 	<ul style="list-style-type: none"> • IPMI 2.0 • KVM over IP • Virtual Media over LAN • Supermicro RSD
LED Indicators	<ul style="list-style-type: none"> • Fault LED • Network Activity LED • Power LED • UID / KVM LED 	<ul style="list-style-type: none"> • Fault LED • Network Activity LED • Power LED • UID / KVM LED
Dimensions (H x W x D)	1.75" x 13" x 23.5"	1.75" x 13" x 23.5"
Chassis	8U: <ul style="list-style-type: none"> • SBE-820C/J-622 • SBE-820C/J-822 	8U: <ul style="list-style-type: none"> • SBE-820C/J-622 • SBE-820C/J-822

Specifications and images of upcoming products are subject to change without notice.

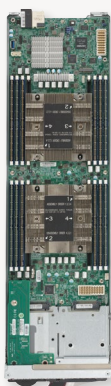
4U SuperBlade®

Cost and Density Optimized with Lowest Initial Hardware Acquisition Cost

4U SuperBlade® Blade Servers with 14 Blade Servers

2-Socket

Dual 10G, NVMe/SATA3



SBI-4429P-T2N

Supermicro SuperBlade® systems provide the perfect building blocks for a Rack Scale Design (RSD) data center solution. With up to 97% cabling reduction compared to 1U server solutions, the total cost of ownership (TCO) is lowered and airflow is significantly improved, which in turn reduces the load on the cooling fans, resulting in even lower OPEX. Up to 54% percent cooling fan power efficiency improvement is achieved by sharing eight cooling fans and integrated power modules across all blade servers. Free from vendor lock-in, these solutions ship with open industry standard IPMI 2.0 and Redfish APIs designed to lower management overhead in large scale data centers.



4U SuperBlade® Enclosure Supporting 14 Blade Servers

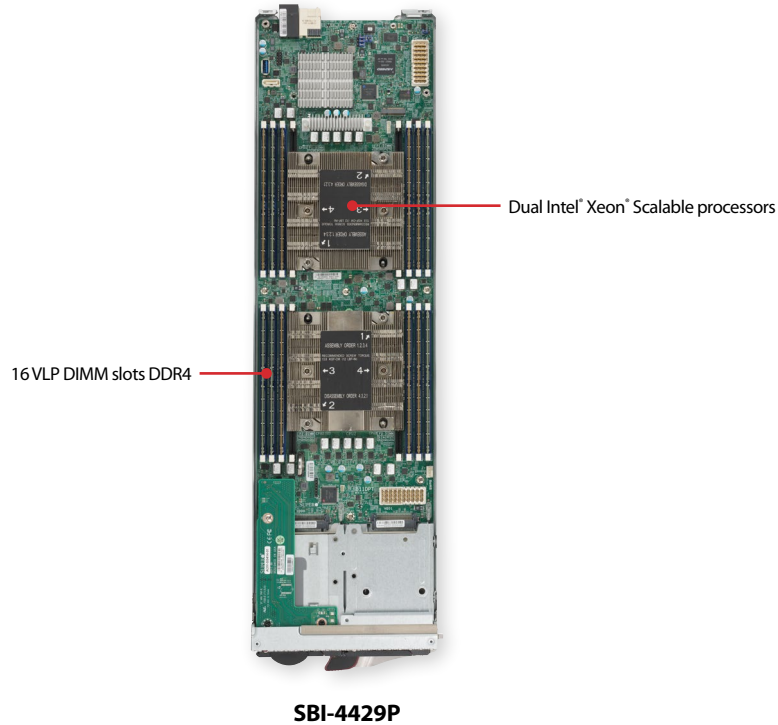


4U Enclosure	SBE-414E
Processor Blade	Up to 14 hot-pluggable 2-socket blade servers
LED	Power LED, Fault LED
Ethernet Switch	Up to 2 hot-pluggable 10G/1G switches
Management Module	Single CMM for remote system management with software
Available Models	<ul style="list-style-type: none"> • SBE-414E-422: Enclosure with 4 hot-pluggable 2200W Titanium (96%+ efficiency) power supplies • SBE-414E-222: Enclosure with 2 hot-pluggable 2200W Titanium (96%+ efficiency) power supplies • SBE-414E-420D: Enclosure with 4 hot-pluggable 2000 DC power supplies • SBE-414EB-222: Enclosure with 2 hot-pluggable 2200W Titanium (96% efficiency) power supplies + 2 hot-pluggable 1200W BBP® modules
Rack Unit	4U
Dimensions (H x W x D)	7" x 17.6" x 32"

4U SuperBlade® Server Technical Specifications

Dual Intel® Xeon® Scalable Processors Supported

2-socket with 2x 10G Ethernet and NVMe



Model	SBI-4429P-T2N
Server Nodes/4U	14
Processor	Dual Intel® Xeon® processors Scalable family with UPI up to 10.4 GT/s
Chipset	Intel® C620 series
Memory Support	16 DDR4-2666 VLP DIMM slots
Max Memory	512GB
Expansion & Drive Bays	<ul style="list-style-type: none"> • 2 hot-plug 2.5" NVMe/SATA3 drive bays • 1 M.2 NVMe/SATA slots
Storage RAID	Intel® PCH SATA3 RAID 0,1
InfiniBand / Intel® OPA	N/A
Ethernet Interface	Dual-port 10G
Management	<ul style="list-style-type: none"> • IPMI 2.0 • KVM over IP • Virtual Media over LAN • Supermicro RSD
LED Indicators	<ul style="list-style-type: none"> • Fault LED • Network Activity LED • Power LED • UID / KVM LED
Dimensions (H x W x D)	1.2" x 6.5" x 23.5"
Chassis	4U: <ul style="list-style-type: none"> • SBE-414E-222 • SBE-414E-422 • SBE-414EB-222

6U SuperBlade[®]

Innovative Disaggregated Resource Saving Server Architecture for Optimal TCO

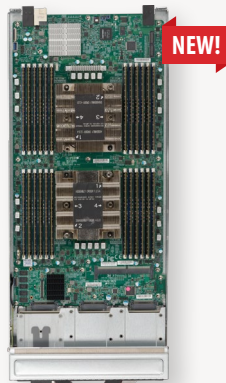
6U SuperBlade[®] with 10 Blade Servers

1-Socket
NVMe/SAS3/SATA3



SBI-6119P-C3N/T3N

2-Socket
NVMe/SAS3/SATA3



SBI-6129P-C3N/T3N



6U SuperBlade with 10 Blade Servers

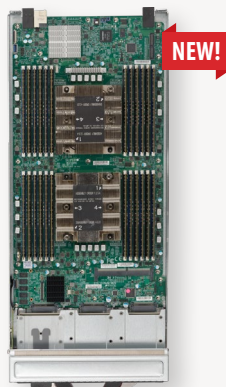
6U SuperBlade[®] with 14 Blade Servers

1-Socket
NVMe/SAS3/SATA3



SBI-6419P-C3N/T3N

2-Socket
NVMe/SAS3/SATA3



SBI-6429P-C3N/T3N

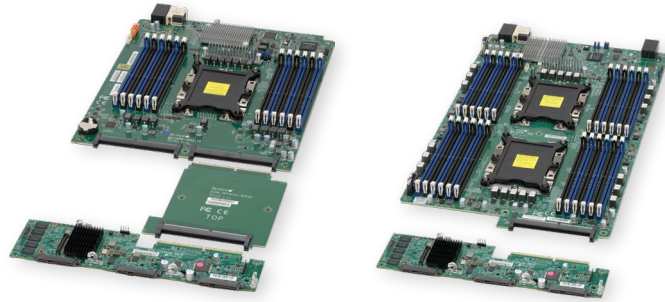


6U SuperBlade with 14 Blade Servers

The new 6U SuperBlade[®] design builds on a disaggregated server architecture that enables the independent upgrades of the compute modules without replacing the rest of the enclosure including networking, storage, fans and power supplies, which refresh at a slower rate. With up to 14 blade servers in a 6U enclosure, the blade servers support Intel[®] Xeon[®] Scalable processors with 24 DIMM slots (2-socket blade) and 12 DIMM slots (1-socket blade), up to 2 U.2 NVMe or 3 SAS3/SATA3 drive bays, and dual 25G/10G Ethernet networking with an easy upgrade path for upcoming 50G and 100G networking solutions.

Disaggregated Resource Saving Server Design

Enabling the highest degree of customization capabilities for most application optimized deployments, and the independent upgrades of CPU, memory, storage and I/O expansion options for a higher return of investment.



6U SuperBlade® Enclosure Supporting 10 Blade Servers



6U Enclosure	SBE-610J
Processor Blade	Up to 10 hot-pluggable 1-socket or 2-socket blade servers
LED	Power LED, Fault LED
25G Ethernet Switch	Up to 2 hot-pluggable 25G/10G Ethernet switches with add-on card
10G Ethernet Switch	Up to 2 hot-pluggable 10G Ethernet switches
Management	Up to 2 CMM for remote system management with software
Available Models	<ul style="list-style-type: none"> • SBE-610J-822: Enclosure with 8 hot-pluggable 2200W Titanium (96% efficiency) power supplies • SBE-610J-622: Enclosure with 6 hot-pluggable 2200W Titanium (96% efficiency) power supplies + 2 cooling fans • SBE-610J-422: Enclosure with 4 hot-pluggable 2200W Titanium (96% efficiency) power supplies + 4 cooling fans • SBE-610JB-422: Enclosure with 4 hot-pluggable 2200W Titanium (96% efficiency) power supplies + 4 hot-pluggable 1200W BBP* modules
Dimensions (H x W x D)	10.5" x 17.6" x 32"

6U SuperBlade® Enclosure Supporting 14 Blade Servers

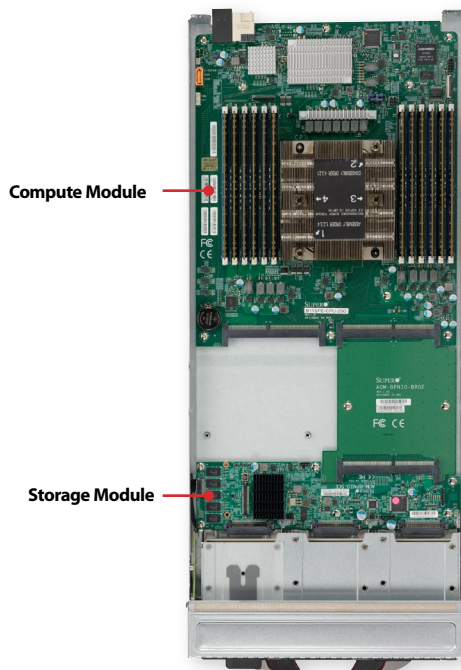


6U Enclosure	SBE-614E
Processor Blade	Up to 14 hot-pluggable 1-socket or 2-socket blade servers
LED	Power LED, Fault LED
10G Ethernet Switch	Up to 2 hot-pluggable 10G Ethernet switches
Management	Single CMM for remote system management with software
Available Models	<ul style="list-style-type: none"> • SBE-614E-822: Enclosure with 8 hot-pluggable 2200W Titanium (96% efficiency) power supplies • SBE-614E-622: Enclosure with 6 hot-pluggable 2200W Titanium (96% efficiency) power supplies + 2 cooling fans • SBE-614E-422: Enclosure with 4 hot-pluggable 2200W Titanium (96% efficiency) power supplies + 4 cooling fans • SBE-614EB-422: Enclosure with 4 hot-pluggable 2200W Titanium (96% efficiency) power supplies + 4 hot-pluggable 1200W BBP* modules
Dimensions (H x W x D)	10.5" x 17.6" x 32"

6U SuperBlade® 1-Socket Server Technical Specifications

Single Intel® Xeon® Scalable Processors Supported

Super Extensible Module options with 12 DIMM slots and 2x 10G Ethernet



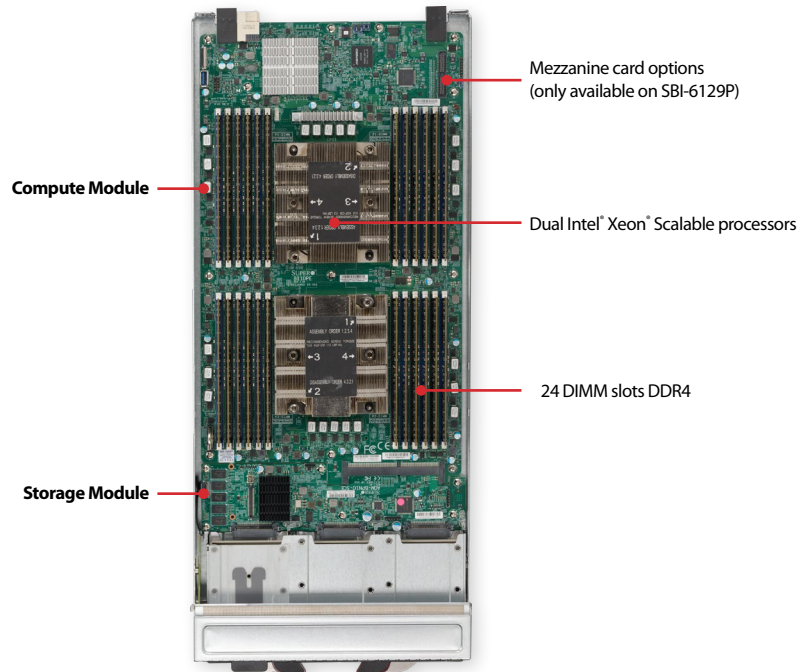
SBI-6119P or SBI-6419P

Model	SBI-6119P-C3N/T3N		SBI-6419P-C3N/T3N	
Server Nodes/6U	10		14	
Processor	Single Intel® Xeon® processors Scalable family		Single Intel® Xeon® processors Scalable family	
Chipset	Intel® C620 series		Intel® C620 series	
Memory Support	12 DDR4-2666 DIMM slots		12 DDR4-2666 VLP DIMM slots	
Max Memory	1.5TB		384GB	
Expansion & Drive Bays	-C3N: <ul style="list-style-type: none"> 2 hot-plug 2.5" NVMe and 1 SAS3/SATA3 drive bays or 3 SAS3/SATA3 drive bays Options for 4 M.2 NVMe/SATA3 slots or 2x 2.5" NVMe/SATA3 internal drive bays Option for 2 PCI-E 3.0 x8 slots 	-T3N: <ul style="list-style-type: none"> 3 hot-plug 2.5" NVMe/SATA3 drive bays Options for 4 M.2 NVMe/SATA3 slots or 2x 2.5" SATA3 drive bays Option for 2 PCI-E 3.0 x8 slots 	-C3N: <ul style="list-style-type: none"> 2 hot-plug 2.5" NVMe and 1 SAS3/SATA3 drive bays or 3 SAS3/SATA3 drive bays Options for 4 M.2 NVMe/SATA3 slots or 2x 2.5" SATA3 drive bays Option for 2 PCI-E 3.0 x8 slots 	-T3N: <ul style="list-style-type: none"> 3 hot-plug 2.5" NVMe/SATA3 drive bays Options for 4 M.2 NVMe/SATA3 slots or 2x 2.5" SATA3 drive bays Option for 2 PCI-E 3.0 x8 slots
Storage RAID	Broadcom® 3108 RAID 0,1,5	Intel® PCH SATA3 RAID 0,1,5	Broadcom® 3108 RAID 0,1,5	Intel® PCH SATA3 RAID 0,1,5
InfiniBand / Intel® OPA	N/A		N/A	
Ethernet Interface	Dual-port 10G		Dual-port 10G	
Management	<ul style="list-style-type: none"> IPMI 2.0 KVM over IP Virtual Media over LAN Supermicro RSD 		<ul style="list-style-type: none"> IPMI 2.0 KVM over IP Virtual Media over LAN Supermicro RSD 	
LED Indicators	<ul style="list-style-type: none"> Fault LED Network Activity LED Power LED UID / KVM LED 		<ul style="list-style-type: none"> Fault LED Network Activity LED Power LED UID / KVM LED 	
Dimensions (H x W x D)	1.75" x 9.75" x 23.5"		1.2" x 9.75" x 23.5"	
Chassis	6U: <ul style="list-style-type: none"> SBE-610J-822 SBE-610J-622 	<ul style="list-style-type: none"> SBE-610J-422 SBE-610JB-422 	6U: <ul style="list-style-type: none"> SBE-614E-822 SBE-614E-622 	<ul style="list-style-type: none"> SBE-614E-422 SBE-614EB-422

6U SuperBlade® 2-Socket Server Technical Specifications

Dual Intel® Xeon® Scalable Processors Supported

24 DIMM slots and 2x 10G Ethernet



SBI-6129P or SBI-6429P

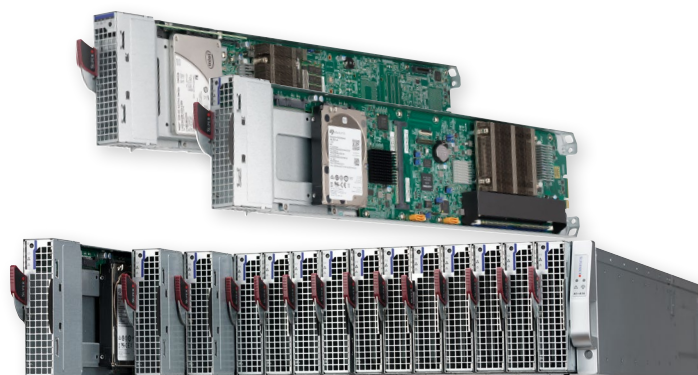
Model	SBI-6129P-C3N/T3N		SBI-6429P-C3N/T3N	
Server Nodes/6U	10		14	
Processor	Dual Intel® Xeon® processors Scalable family with UPI up to 10.4 GT/s		Dual Intel® Xeon® processors Scalable family with UPI up to 10.4 GT/s	
Chipset	Intel® C620 series		Intel® C620 series	
Memory Support	24 DDR4-2666 DIMM slots		24 DDR4-2666 VLP DIMM slots	
Max Memory	3TB		768GB	
Expansion & Drive Bays	-C3N: • 2 hot-plug 2.5" NVMe and 1 SAS3/SATA3 drive bays or 3 SAS3/SATA3 drive bays	-T3N: • 3 hot-plug 2.5" NVMe /SATA3 drive bays	-C3N: • 2 hot-plug 2.5" NVMe and 1 SAS3/SATA3 drive bays or 3 SAS3/SATA3 drive bays	-T3N: • 3 hot-plug 2.5" NVMe /SATA3 drive bays
Storage RAID	Broadcom® 3108 RAID 0,1,5	Intel® PCH SATA3 RAID 0,1,5	Broadcom® 3108 RAID 0,1,5	Intel® PCH SATA3 RAID 0,1,5
InfiniBand / Intel® OPA	N/A		N/A	
Ethernet Interface	<ul style="list-style-type: none"> • Dual-port 10G • Dual-port 25G (Mezzanie card) 		Dual-port 10G	
Management	<ul style="list-style-type: none"> • IPMI 2.0 • KVM over IP • Virtual Media over LAN • Supermicro RSD 		<ul style="list-style-type: none"> • IPMI 2.0 • KVM over IP • Virtual Media over LAN • Supermicro RSD 	
LED Indicators	<ul style="list-style-type: none"> • Fault LED • Network Activity LED • Power LED • UID / KVM LED 		<ul style="list-style-type: none"> • Fault LED • Network Activity LED • Power LED • UID / KVM LED 	
Dimensions (H x W x D)	1.75" x 9.75" x 23.5"		1.2" x 9.75" x 23.5"	
Chassis	6U: <ul style="list-style-type: none"> • SBE-610J-822 • SBE-610J-622 	<ul style="list-style-type: none"> • SBE-610J-422 • SBE-610JB-422 	6U: <ul style="list-style-type: none"> • SBE-614E-822 • SBE-614E-622 	<ul style="list-style-type: none"> • SBE-614E-422 • SBE-614EB-422

MicroBlade™

- Best density and power-efficiency with up to 56x 1-socket or 28x 2-socket 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) AC power supplies
 - Battery Backup Power (BBP) modules



6U MicroBlade™



3U MicroBlade™

MicroBlade™ Servers

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

2S with Quad 1G



MBI-6128R-T2

2S with Dual 10G



MBI-6128R-T2X

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

2x 1S, Dual 10G, NVMe



MBI-6219G-T8HX/T7LX

1S, Dual 10G, NVMe



MBI-6119G-T8HX/T7LX

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

2x 1S with Dual 10G



MBI-6218G-T81X/T41X

1S with Dual 10G



MBI-6118G-T81X/T41X

Intel® Xeon® Processor E3-1200 v6/v5

1S with 2 SAS3



MBI-6119G-C2

1S with 4 SAS3



MBI-6119G-C4

1S with 4 SATA3



MBI-6119G-T4

2x 1S with 2 SATA3



MBI-6219G-T

Intel® Xeon® Processor E3-1200 v4/v3

1S with 2x 3.5" SATA3



MBI-6118D-T2/T2H

1S with 4x 2.5" SATA3



MBI-6118D-T4/T4H

Intel® Atom™ Processor (C2750/C2550)

4x 1S with Dual 2.5G



MBI-6418A-T7H

4x 1S with Dual 2.5G



MBI-6418A-T5H

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) 1S nodes
- 56/28/14 Intel® Xeon® processor E3-1500 v5 (1585/1578L) 1S nodes
- 56/28/14 Intel® Xeon® processor E3-1200 v6/v5/v4/v3 1S nodes
- 28/14 Intel® Xeon® processor E5-2600 v4/v3 2S 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
Processor Blade	Up to 14 hot-pluggable blade servers	Up to 28 hot-pluggable blade servers
Node Support	Intel® Xeon® processor based blades	Intel® Atom™ processor based blades
Networking	Up to 2 hot-pluggable 10G/1G Ethernet switches	Up to 4 hot-pluggable 2.5G/1G Ethernet switches
Management	Single hot-pluggable management module providing remote KVM and IPMI 2.0 functionalities	Single hot-pluggable management module providing remote KVM and IPMI 2.0 functionalities
Power Supply	<ul style="list-style-type: none"> • -420(D): 4 hot-pluggable 2000W; (D) for DC power • -416: 4 hot-pluggable 1600W • -220(D): 2 hot-pluggable 2000W; (D) for DC power 	<ul style="list-style-type: none"> • -816: 8 hot-pluggable 1600W • -416: 4 hot-pluggable 1600W
Cooling Design	4 cooling fans	8 cooling fans
LED	Power LED, Fault LED	Power LED, Fault LED
Rack Unit	3U	6U
Dimensions (H x W x D)	<ul style="list-style-type: none"> • -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)

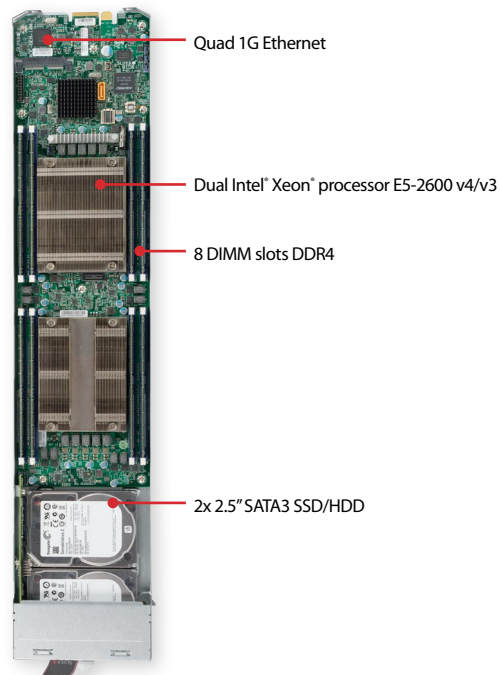


Model	MBE-628E-820(D)/816/420(D)/416	MBE-628E/EB-822/622/422
Processor Blade	Up to 28 hot-pluggable blade servers	Up to 28 hot-pluggable blade servers
Node Support	Intel® Xeon® processor based blades	Intel® Xeon® processor based blades
Networking	Up to 2 hot-pluggable 10G/1G Ethernet switches	Up to 2 hot-pluggable 10G/1G Ethernet switches
Management	Up to 2 hot-pluggable management modules providing remote KVM and IPMI 2.0 functionalities	Up to 2 hot-pluggable management modules providing remote KVM and IPMI 2.0 functionalities
Power Supply	<ul style="list-style-type: none"> • -820(D): 8 hot-pluggable 2000W; (D) for DC power • -816: 8 hot-pluggable 1600W • -420(D): 4 hot-pluggable 2000W; (D) for DC power • -416: 4 hot-pluggable 1600W 	<ul style="list-style-type: none"> • -822/622/422: 8/6/4 hot-pluggable 2200W • -628EB-422: 4 hot-pluggable 2200W + 4 hot-pluggable 1200W BBP* modules
Cooling Design	8 cooling fans	8 cooling fans
LED	Power LED, Fault LED	Power LED, Fault LED
Rack Unit	6U	6U
Dimensions (H x W x D)	<ul style="list-style-type: none"> • -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 Server Technical Specifications

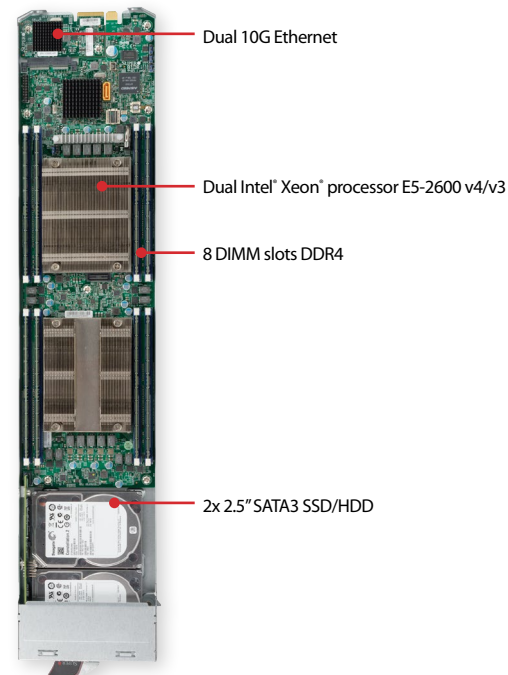
Dual Intel® Xeon® Processor E5-2600 v4/v3 Product Families Supported

Single-node 2S with Quad Gigabit Ethernet



MBI-6128R-T2

Single-node 2S with Dual 10G Ethernet



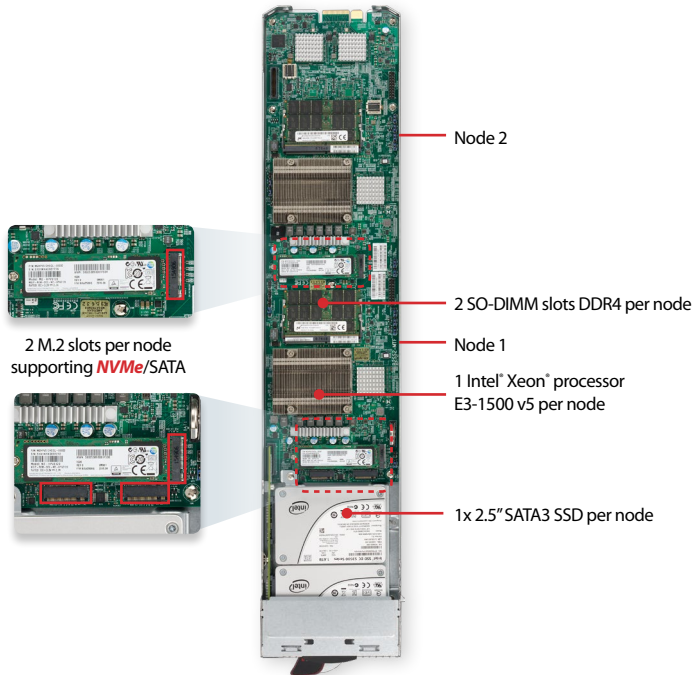
MBI-6128R-T2X

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 DDR4-2400 VLP DIMM slots	8 DDR4-2400 VLP DIMM slots
Max Memory	256GB	256GB
Expansion & Drive Bays	<ul style="list-style-type: none"> • 2x 2.5" SATA3 SSD/HDD • 1x SuperDOM Port 	<ul style="list-style-type: none"> • 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	Dual-port 10G
Management	<ul style="list-style-type: none"> • IPMI 2.0 • KVM over IP • Virtual Media over LAN • Supermicro RSD 	<ul style="list-style-type: none"> • IPMI 2.0 • KVM over IP • Virtual Media over LAN • Supermicro RSD
LED Indicators	<ul style="list-style-type: none"> • Power LED • UID / KVM LED • Network Activity LED • Fault LED 	<ul style="list-style-type: none"> • 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	<p>6U:</p> <ul style="list-style-type: none"> • MBE-628E-416 • MBE-628E-816 • MBE-628EB-422 • MBE-628EB-822 <p>3U:</p> <ul style="list-style-type: none"> • MBE-314E-420(D) • MBE-314E-416 	<p>6U:</p> <ul style="list-style-type: none"> • MBE-628E-420 • MBE-628E-820(D) • MBE-628EB-622 <p>3U:</p> <ul style="list-style-type: none"> • MBE-314E-220(D)

MicroBlade™ X11 Server Technical Specifications

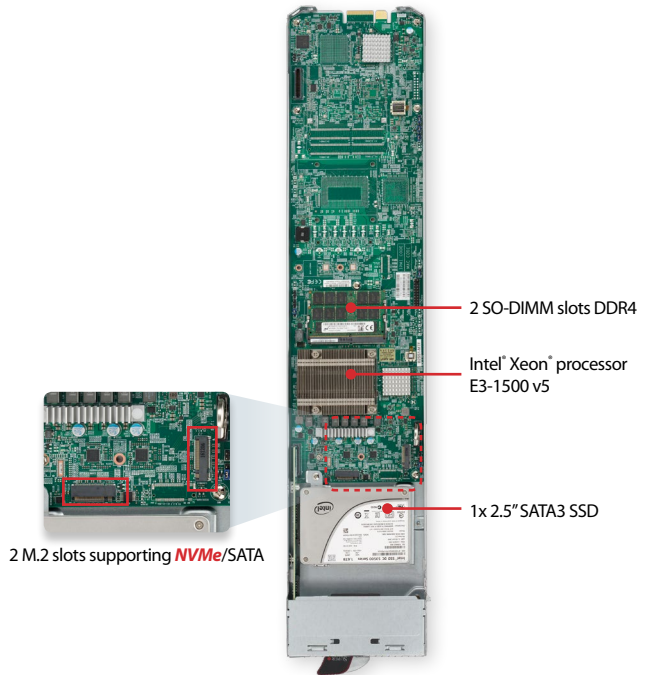
Intel® Xeon® Processor E3-1500 v5 (1585/1578L) Product Family Supported

Dual-node 1S with Dual 10G Ethernet and M.2 NVMe



MBI-6219G-T8HX/T7LX

Single-node 1S with Dual 10G Ethernet and M.2 NVMe



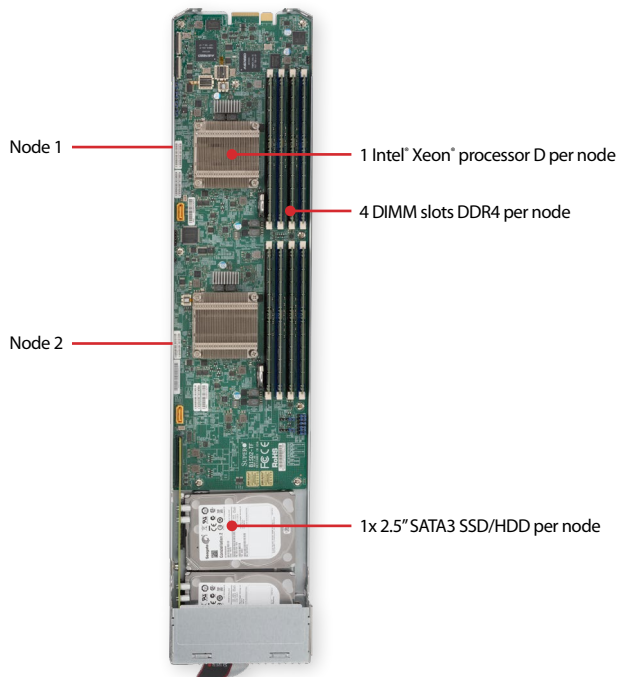
MBI-6119G-T8HX/T7LX

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 DDR4-2400 SO-DIMM slots per node		2 DDR4-2400 SO-DIMM slots	
Max Memory	32GB per node		32GB	
Expansion & Drive Bays	<ul style="list-style-type: none"> • 1x 2.5" SATA3 SSD per node • 1x SuperDOM Port per node • 2x M.2 NVMe/SATA per node 		<ul style="list-style-type: none"> • 1x 2.5" SATA3 SSD • 1x SuperDOM Port • 2x M.2 NVMe/SATA 	
Storage RAID	N/A		N/A	
Ethernet Interface	Dual-port 10G per node		Dual-port 10G	
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	<ul style="list-style-type: none"> • Power LED • Fault LED • Network Activity LED • UID / KVM LED 		<ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • MBE-628E-416 • MBE-628E-816 • MBE-628EB-422 • MBE-628EB-822 3U: <ul style="list-style-type: none"> • MBE-314E-420(D) • MBE-314E-416 		6U: <ul style="list-style-type: none"> • MBE-628E-416 • MBE-628E-816 • MBE-628EB-422 • MBE-628EB-822 3U: <ul style="list-style-type: none"> • MBE-314E-420(D) • MBE-314E-416 	

MicroBlade™ X10 Server Technical Specifications

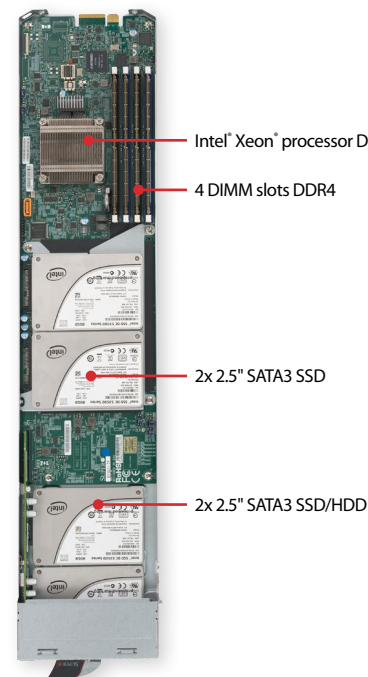
Intel® Xeon® processor D-1500 (1581/1541) Product Family Supported

Dual-node 1S with Dual 10G Ethernet



MBI-6218G-T81X/ T41X

Single-node 1S 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 DDR4-2400 VLP DIMM slots per node		4 DDR4-2400 VLP DIMM slots	
Max Memory	128GB per node		128GB	
Expansion & Drive Bays	<ul style="list-style-type: none"> • 1x 2.5" SATA3 SSD/HDD per node • 1x SuperDOM Port per node 		<ul style="list-style-type: none"> • 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 per node		Dual-port 10G	
Management	<ul style="list-style-type: none"> • IPMI 2.0 • KVM over IP • Virtual Media over LAN 		<ul style="list-style-type: none"> • IPMI 2.0 • KVM over IP • Virtual Media over LAN 	
LED Indicators	<ul style="list-style-type: none"> • Fault LED • Network Activity LED • Power LED • UID / KVM LED 		<ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • MBE-628E-416 • MBE-628E-816 • MBE-628EB-422 • MBE-628EB-822 3U: <ul style="list-style-type: none"> • MBE-314E-420(D) • MBE-314E-416 		6U: <ul style="list-style-type: none"> • MBE-628E-420 • MBE-628E-820(D) • MBE-628EB-622 3U: <ul style="list-style-type: none"> • MBE-314E-220(D) • MBE-314E-416 	

MicroBlade™ X11 Server Technical Specifications

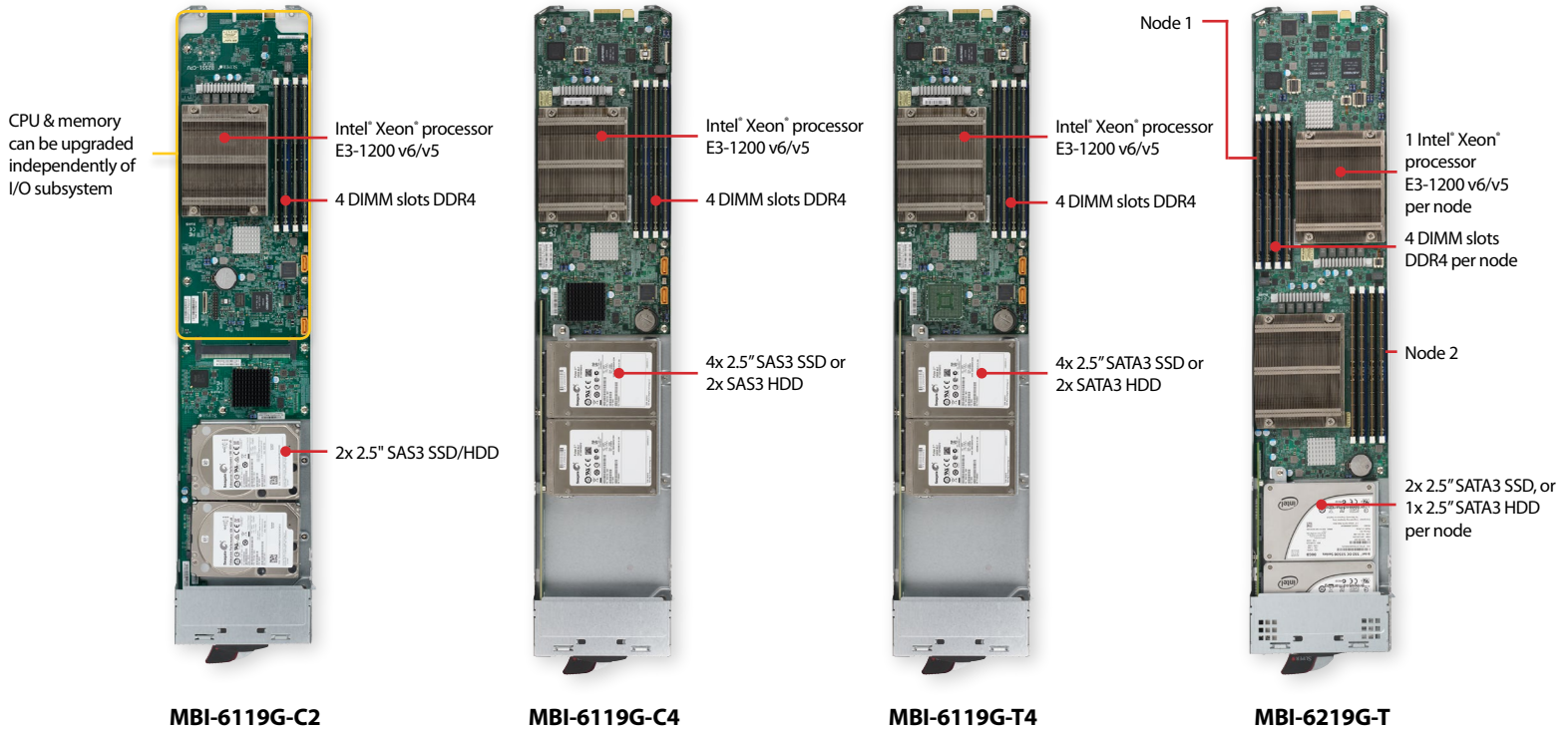
Intel® Xeon® Processor E3-1200 v6/v5 Product Families Supported

Single-node 1S with 2 SAS3

Single-node 1S with 4 SAS3

Single-node 1S with 4 SATA3

Dual-node 1S with 2 SATA3

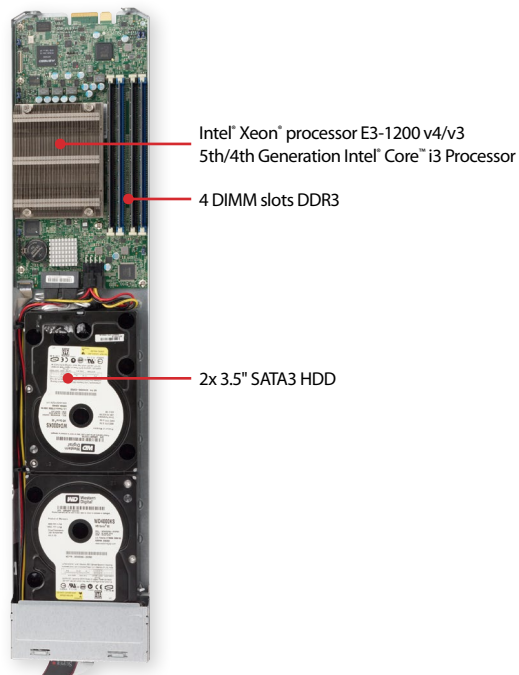


Model	MBI-6119G-C2/C4	MBI-6119G-T4	MBI-6219G-T	
Server Nodes/42U Rack	196	196	392	
Processor	Intel® Xeon® processor E3-1200 v6/v5 product families	Intel® Xeon® processor E3-1200 v6/v5 product families	Intel® Xeon® processor E3-1200 v6/v5 product families per node	
Chipset	Intel® C236	Intel® C236	Intel® C236	
Memory Support	4 DDR4-2400 VLP DIMM slots	4 DDR4-2400 VLP DIMM slots	4 DDR4-2400 VLP DIMM slots per node	
Max Memory	64GB	64GB	64GB per node	
Expansion & Drive Bays	-C2: <ul style="list-style-type: none"> 2x 2.5" SAS3 SSD/HDD 2x SuperDOM Port -C4: <ul style="list-style-type: none"> 2x 2.5" SAS3 HDD or 4x 2.5" SAS3 SSD 2x SuperDOM Port 	-T4: <ul style="list-style-type: none"> 2x 2.5" SATA3 HDD or 4x 2.5" SATA3 SSD 2x SuperDOM Port 	-T: <ul style="list-style-type: none"> 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	Dual-port Gigabit	Dual-port Gigabit 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	<ul style="list-style-type: none"> Power LED Fault LED Network Activity LED UID / KVM LED 	<ul style="list-style-type: none"> Power LED Fault LED Network Activity LED UID / KVM LED 	<ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> MBE-628E-416 MBE-628E-816 MBE-628EB-422 MBE-628EB-822 3U: <ul style="list-style-type: none"> MBE-314E-420(D) MBE-314E-416 	<ul style="list-style-type: none"> MBE-628E-420 MBE-628E-820(D) MBE-628EB-622 <ul style="list-style-type: none"> MBE-314E-220(D) 	6U: <ul style="list-style-type: none"> MBE-628E-416 MBE-628E-816 MBE-628EB-422 MBE-628EB-822 3U: <ul style="list-style-type: none"> MBE-314E-420(D) MBE-314E-416 	<ul style="list-style-type: none"> MBE-628E-420 MBE-628E-820(D) MBE-628EB-622 <ul style="list-style-type: none"> MBE-314E-220(D)

MicroBlade™ X10 Server Technical Specifications

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

Single-node 1S with 2x 3.5" SATA3



- Intel® Xeon® processor E3-1200 v4/v3
5th/4th Generation Intel® Core™ i3 Processor
- 4 DIMM slots DDR3
- 2x 3.5" SATA3 HDD

MBI-6118D-T2/T2H

Single-node 1S with 4x 2.5" SATA3



- Intel® Xeon® processor E3-1200 v4/v3
5th/4th Generation Intel® Core™ i3 Processor
- 4 DIMM slots DDR3
- 4x 2.5" SATA3 SSD/HDD

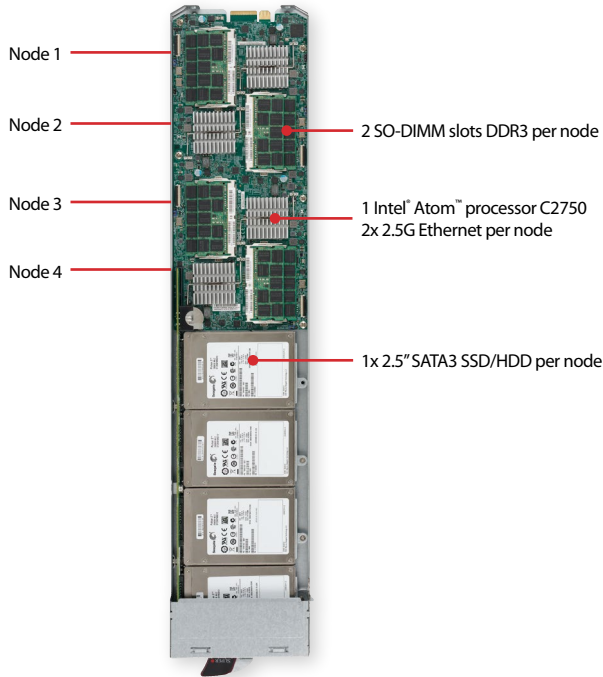
MBI-6118D-T4/T4H

Model	MBI-6118D-T2/T2H	MBI-6118D-T4/T4H
Server Nodes/42U Rack	196	196
Processor	<ul style="list-style-type: none"> Intel® Xeon® processor E3-1200 v4/v3 product families 5th/4th Generation Intel® Core™ i3 Processor Series 	<ul style="list-style-type: none"> 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 DDR3-1600 VLP DIMM slots	4 DDR3-1600 VLP DIMM 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	Dual-port Gigabit
Management	<ul style="list-style-type: none"> IPMI 2.0 KVM over IP Virtual Media over LAN 	<ul style="list-style-type: none"> IPMI 2.0 KVM over IP Virtual Media over LAN
LED Indicators	<ul style="list-style-type: none"> Fault LED Network Activity LED Power LED UID / KVM LED 	<ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> MBE-628E-416 MBE-628E-816 MBE-628EB-422 MBE-628EB-822 3U: <ul style="list-style-type: none"> MBE-314E-420(D) MBE-314E-416 	6U: <ul style="list-style-type: none"> MBE-628E-420 MBE-628E-820(D) MBE-628EB-622 3U: <ul style="list-style-type: none"> MBE-314E-220(D)

MicroBlade™ X10 Server Technical Specifications

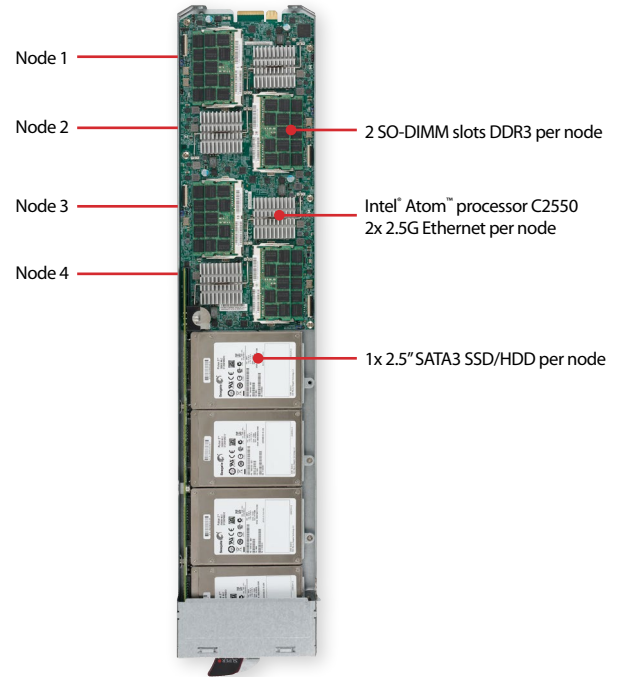
Intel® Atom™ Processor (C2750/C2550) Product Families Supported

Quad-node 1S with Dual 2.5G Ethernet



MBI-6418A-T7H

Quad-node 1S with Dual 2.5G Ethernet

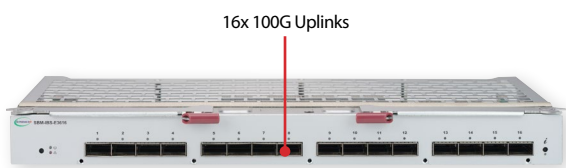


MBI-6418A-T5H

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 DDR3-1600/1333 SO-DIMM slots per node	2 DDR3-1600/1333 SO-DIMM slots per node
Max Memory	32GB per node	32GB per node
Expansion & Drive Bays	<ul style="list-style-type: none"> 1x 2.5" SATA3 SSD/HDD per node 1x SuperDOM Port per node 	<ul style="list-style-type: none"> 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 per node	Dual-port 2.5G per node
Management	<ul style="list-style-type: none"> IPMI 2.0 KVM over IP Virtual Media over LAN 	<ul style="list-style-type: none"> IPMI 2.0 KVM over IP Virtual Media over LAN
LED Indicators	<ul style="list-style-type: none"> Power LED UID / KVM LED Network Activity LED Fault LED 	<ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> MBE-628L-416 MBE-628L-816 	6U: <ul style="list-style-type: none"> MBE-628L-416 MBE-628L-816

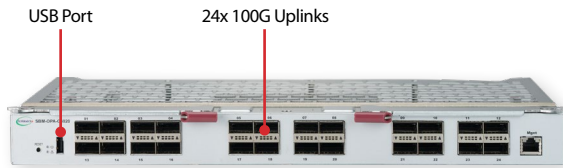
100G Switches

100G EDR InfiniBand Switch



SBM-IBS-E3616

100G Intel® Omni-Path Architecture Switch



SBM-OPA-C4020

InfiniBand Switch Module

The InfiniBand switch is based on point-to-point bi-directional serial link systems. It provides high-speed interconnectivity among the blade modules and to external InfiniBand peripherals and are especially useful in supporting clustered High-Performance-Computing. The SBM-IBS-E3616 InfiniBand switch supports up to twenty internal and 16 external connections (100G).

Omni-path Architecture Switch Module

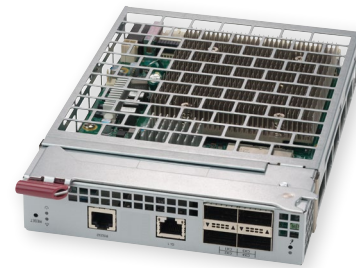
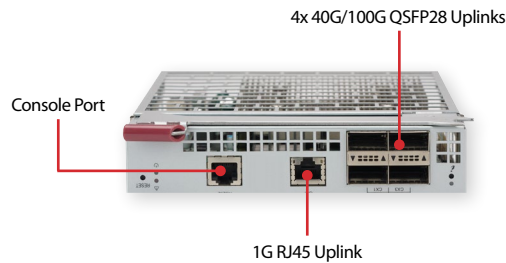
Supermicro SBM-OPA-C4020 supports the 100Gbps Intel® Omni-Path Architecture (OPA) providing a unique HPC cluster solution offering excellent bandwidth, latency and message rate that is highly scalable and easily serviceable.

SBM-OPA-C4020 supporting Omni-Path Architecture 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 SBM-OPA-C4020 products offer 9.6 Tb/s total fabric bandwidth. High scalability with the capability of 27,648 nodes in 2-tier configuration.

Model	SBM-IBS-E3616	SBM-OPA-C4020
General Specifications	<ul style="list-style-type: none"> • 20x 100G EDR InfiniBand downlinks • 16x 100G EDR InfiniBand uplinks 	<ul style="list-style-type: none"> • 20x 100G Intel® Omni-Path Architecture downlinks • 24x 100G Intel® Omni-Path Architecture uplinks • 1 USB port
Switching Capacity	7.2Tbps	9.6Tbps
Physical Layer Features	100G optical/copper QSFP28	100G optical/copper QSFP28
System Management	Unmanaged mode	

25G Ethernet Switch

25G Ethernet Switch with MLAG



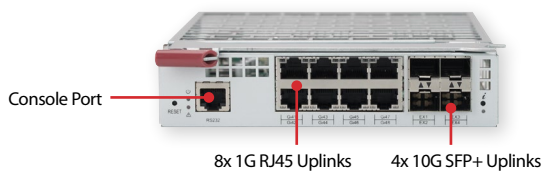
SBM-25G-100

Model	SBM-25G-100			
General Specifications	<ul style="list-style-type: none"> • 20x 25G Ethernet downlink (backward compatible to 20x10G) • 4x 100G/40G Ethernet uplinks, each can split into 4x 25G or 4x 10G uplinks with optional fan-out cables • 1x Gigabit Ethernet uplink • 1 console port 			
Physical Layer Features	<ul style="list-style-type: none"> • 100G/40G optical/copper QSFP28 • Gigabit Ethernet copper RJ45 			
Layer 2 Features	<ul style="list-style-type: none"> • 4K VLANs • Spanning Tree Protocol (802.1D) • Rapid Spanning Tree Protocol (802.1w) 	<ul style="list-style-type: none"> • IEEE 802.1Q VLANs/ port-based VLANs • Multiple Spanning Tree Protocol (802.1s) • Jumbo frames up to 9KB 	<ul style="list-style-type: none"> • IEEE 802.1AX LAG • IEEE 802.3ac VLAN tagging • IEEE 802.1AB Link Layer Discovery Protocol (LLDP) 	
System Management	<ul style="list-style-type: none"> • Industry Standard CLI • Web-based management interface – HTTP/HTTPS 	<ul style="list-style-type: none"> • Syslog • SSH 	<ul style="list-style-type: none"> • SNMP v1/v2/v3 • NTP 	<ul style="list-style-type: none"> • Content-sensitive “Help” • Auto Command completion • TFTP Client • XML-RPC

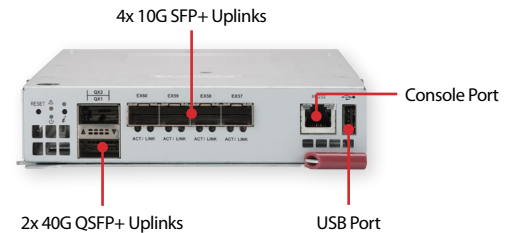
10G and 1G Ethernet Switches

Gigabit Ethernet Layer L2 Switch with MLAG

10G/2.5G/1G Ethernet L3 Switch with MLAG



MBM-GEM-004



MBM-XEM-002

Model	MBM-GEM-004		MBM-XEM-002	
General Specifications	<ul style="list-style-type: none"> • 40x 1G Ethernet downlinks • 8x 1G Ethernet RJ45 and optional 4x 10G Ethernet Uplinks • 1 console port 		<ul style="list-style-type: none"> • 56x 10G/2.5G/1G Ethernet downlinks • 2x 40G Ethernet QSFP+ or, 1x 40G and 4x 10G Ethernet uplinks • 1 console port • 1 USB port 	
Switching Capacity	176Gbps		1280Gbps	
Physical Layer Features	<ul style="list-style-type: none"> • Optional 10G optical/copper SFP+ • Gigabit Ethernet copper RJ45 		<ul style="list-style-type: none"> • 40Gbps optical/copper QSFP+ • Optional 10G Ethernet optical/copper SFP+ 	
Layer 2 Features	<ul style="list-style-type: none"> • 4K VLANs, Jumbo frames up to 9KB • IEEE 802.1Q VLANs/ port-based VLANs • Spanning Tree Protocol (802.1D) 	<ul style="list-style-type: none"> • IEEE 802.1AB Link Layer Discovery Protocol (LLDP) • IEEE 802.3ad with LACP • Multiple Spanning Tree Protocol (802.1s) 	<ul style="list-style-type: none"> • Multi-Chassis Link Aggregation (MLAG) • MAC Address: -XEM-002: 128K -GEM-004: 64K • Rapid Spanning Tree Protocol (802.1W) 	
Advanced Layer 2 Features	<ul style="list-style-type: none"> • Storm control 	<ul style="list-style-type: none"> • Port mirroring 	<ul style="list-style-type: none"> • Flow control 	<ul style="list-style-type: none"> • Uplink Failure Detection
Layer 3 Features	N/A		<ul style="list-style-type: none"> • OSPF, BGP and VRRP 	
System Management	<ul style="list-style-type: none"> • Industry Standard CLI • Web-based management interface 	<ul style="list-style-type: none"> • RMON • DHCP (Client) 	<ul style="list-style-type: none"> • SNMP v1/v2/v3 • Zero Touch Provisioning 	<ul style="list-style-type: none"> • NTP • SSH • Syslog

Switch and Enclosure Compatibility Matrix

SuperBlade® and MicroBlade®

Enclosures		SBM-IBH-E3616	SBM-OPA-C4020	SBM-25G-100	MBM-XEM-002	MBM-GEM-004
		EDR InfiniBand	Intel® Omni-Path	Ethernet		
		100G	100G	25G	10G	1G
8U	SBE-820C	● Up to 1	● Up to 1	● Up to 2 (10G)	● Up to 2	● Up to 2
	SBE-820CB	● Up to 1	● Up to 1	● Up to 2 (10G)	● Up to 2	● Up to 2
	SBE-820J	-	-	● Up to 2	● Up to 4	● Up to 4
	SBE-820JB	-	-	● Up to 2	● Up to 4	● Up to 4
6U	SBE-610J	-	-	● Up to 2	● Up to 4	● Up to 4
	SBE-614E	-	-	● Up to 2 (10G)	● Up to 2	● Up to 2
	SBE-614EB	-	-	● Up to 2 (10G)	● Up to 2	● Up to 2
	MBE-628E	-	-	-	● Up to 2	-
	MBE-628EB	-	-	-	● Up to 2	-
	MBE-628L	-	-	-	● Up to 4	-
4U	SBE-414E	-	-	● Up to 2 (10G)	● Up to 2	● Up to 4
	SBE-414EB	-	-	● Up to 2 (10G)	● Up to 2	● Up to 4
3U	MBE-314E	-	-	-	● Up to 2	● Up to 2

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

SuperBlade® Networking Mezzanine Card

Flexible Networking Options

The new generation of SuperBlades can be further customized to accommodate current and future upgrade needs. The networking mezzanine cards include optional cards for 100G EDR InfiniBand, 100G Intel Omni-Path or Dual Port 25G Ethernet Card. These cards, interfaced with their appropriate switches, result in a blade server tuned for high-performance network throughput.

100G EDR InfiniBand



AOC-IBH-X4E5
Compatible with SBE-820C

100G Intel® Omni-Path



AOC-OPH-WFR
Compatible with SBE-820C

Dual-Port 25G Ethernet



AOC-B25G-X4D
Compatible with SBE-820J

Dual-Port 25G Ethernet

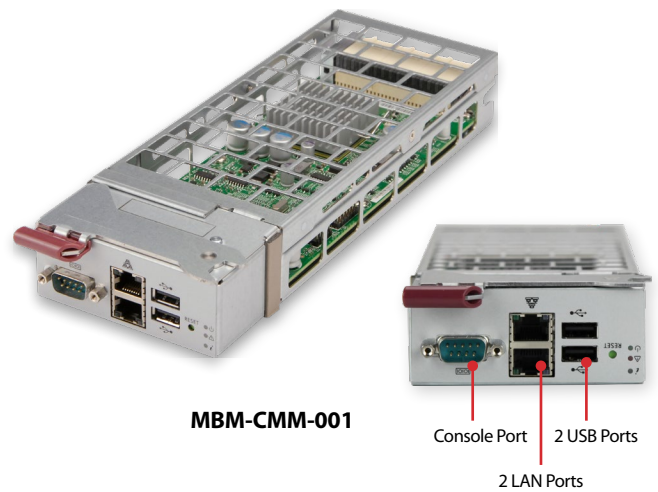
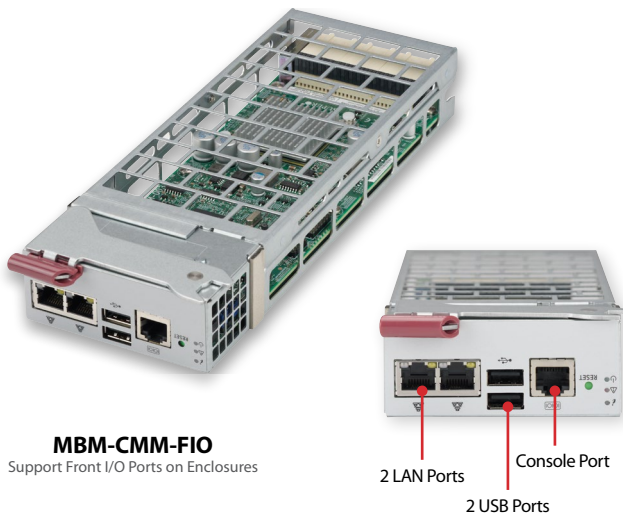


AOC-B25G-6X4D
Compatible with SBE-610J

Chassis Management Modules (CMM)

Supporting MicroBlade and New Generation SuperBlade

- Centralized remote management
 - Server Blades, Power Supplies, Cooling Fans, Switches
- Management tools
 - **IPMView**: CLI, Web-based GUI
 - **CMM**: Enclosure Monitoring
 - **SSM**: Blade Enclosure and Rack
 - **Utilities**: SMCIPMITOOL for CMM and IPMICFG for IPMI
- Redundancy and Fail-over
- IPMI 2.0 and Redfish compliant, with KVM over LAN / KVM over IP
- Virtual Media Over LAN (Virtual USB Floppy/CD and Drive Redirection)
- LAN Alert-SNMP Trap
- Event Log
- Hardware Health Monitor
- Supports RMCP & RMCP+ Protocols



SuperBlade® Storage Mezzanine Card

Flexible Storage Options

The Add-on-Module AOM-B-4M which accommodates 4x M.2 immediately provide additional capacity and increases the total available storage capacity for the blade server. The add-on-module AOM-B3108-H8-B11 provides for SAS3 RAID capability and interface for the SAS drives on the blade servers.

Broadcom® 3108 SAS3 RAID



AOM-B3108-H8-B11

4x M.2 Slots



AOM-B-4M

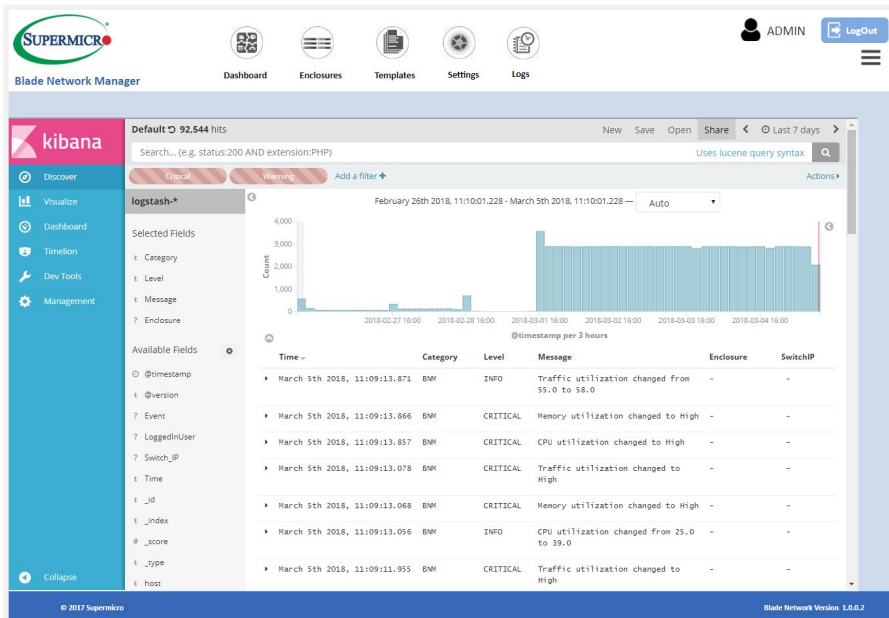
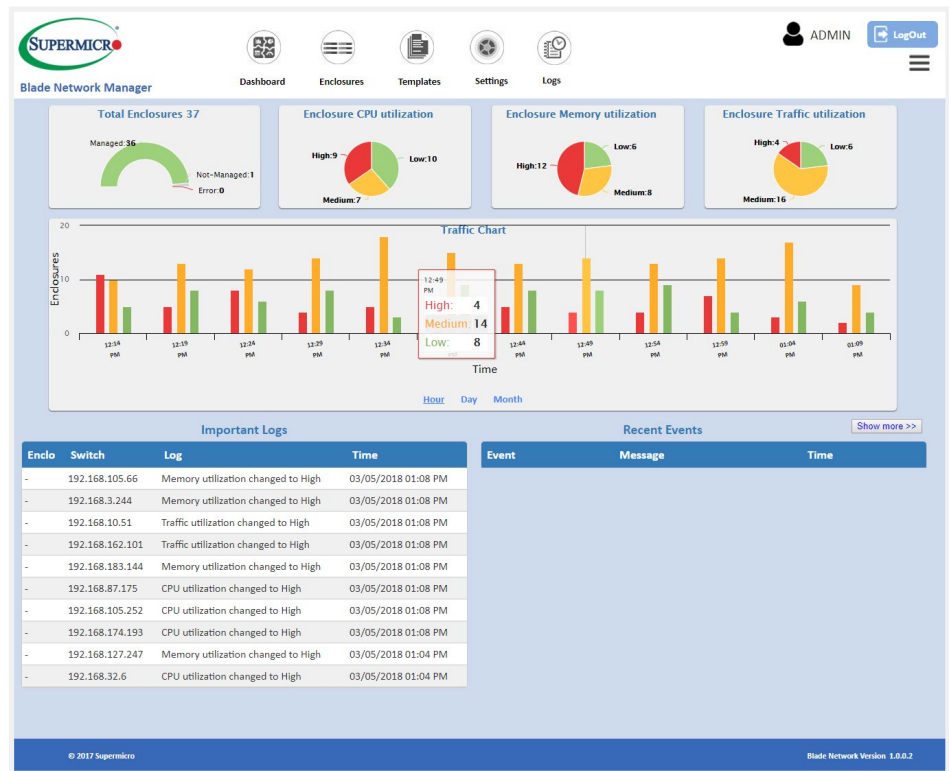
Supermicro Blade Network Manager (BNM)

Supporting MicroBlade and New Generation SuperBlade

Supermicro's industry-leading blade server product family is enhanced by a user-friendly software utility for managing every aspect of networking configuration within each SuperBlade¹ or MicroBlade enclosure and across multiple enclosures.

The new Supermicro **Blade Network Manager (BNM)** is a part of Supermicro's blade management software suite designed to reduce IT management overheads and manual networking configuration errors within a MicroBlade or SuperBlade enclosure.

BNM offers a single-pane of glass to monitor and manage the networking configurations across multiple SuperBlade and MicroBlade enclosures in a data center environment. It provides an overview of the networking topology from each blade server's perspective and helps to easily manage the Ethernet Blade switches and to diagnostic networking configuration issues.



The volume provisioning of blade server networking can be achieved with the use of templates. Users can define configuration parameters based on a desired type of workload with an existing enclosure and save as a configuration template. When new enclosures are added to the environment, the same configuration can be applied instantly and repeated at scale. In addition, multiple configuration templates, that are optimized for different workloads, can be composed for later deployments.

BNM is a software solution that can be deployed on any physical server or a virtual machine running Ubuntu Linux managed through a secured web interface. The BNM software framework is architected with open standards and is flexible to be incorporated into any existing infrastructure management software tools.

¹ Refers to the new generation 8U/6U/4U SuperBlade solutions supporting Intel® Xeon® Scalable processors.

Supermicro Blade Network Manager (BNM)

Supporting MicroBlade and New Generation SuperBlade

BNM Highlights

Simplicity

The BNM dashboard is designed to present the networking topology and configurations in the simplest fashion, the utility requires minimal networking knowledge. Setting up a new network switch in a fresh deployed blade enclosure requires only a few clicks in the BNM web interface.

Scalability

The BNM management agent is scalable to manage up to thousands of SuperBlade and MicroBlade enclosures from a single management interface.

Users can deploy networking configurations for groups of enclosures based on pre-composed templates and be ready to move from testing to production or to make optimizations for different workloads in a short timeframe.

Auto Discovery

The BNM ability to automatically discover SuperBlade and MicroBlade enclosures allows rapid provisioning of blade networking.

Intelligence

BNM learns the connections between blade servers, blade switches as well as uplink TOR or other switches using LLDP and LACP messages. Based on the available connections, BNM can intelligently provision link aggregations in blade switches automatically.

Workflow

BNM includes a template-based configuration capability and provides multiple pre-loaded configuration templates for different network switch models optimized for different application or deployments. These templates can be deployed to multiple enclosures with only few clicks resulting in significant time savings. Modifying a deployed configuration template can automatically trigger the re-provision of all the applicable blade switches.

Analytics

BNM gathers logs and statistics from all the blade switches and presents them with powerful analytical and graphical tools. BNM is built with open source analytical products including Elastic Search, Logstash and Kibana for this purpose.



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	<ul style="list-style-type: none"> • 183.33A (2200W) • 174.17A (2090W) • 165A (1980W) • 150A (1800W) • 100A (1200W) 	<ul style="list-style-type: none"> • 166.7A (2000W) • 165A (1980W) • 150A (1800W) • 83.3A (1000W) 	<ul style="list-style-type: none"> • 133A (1600W) • 116.7A (1400W) • 100A (1200W) 	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 100-127V (1200W) • 200-220V (1800W) • 220-230V (1980W) • 230-240V (2090W) • 200-220V (2090W for UL & cUL) • 220-240V (2200W for UL & cUL) 	<ul style="list-style-type: none"> • 100-127V (1000W) • 200-220V (1800W) • 220-230V (1980W) • 230-240V (2000W) • 200-240V (2000W for UL & cUL) 	<ul style="list-style-type: none"> • 100-120V (1200W) • 120-140V (1400W) • 200-240V (1600W) 	<ul style="list-style-type: none"> • -40 to -44Vdc (1600W) • -44 to -66Vdc (2000W)
Operating Conditions	<ul style="list-style-type: none"> • Temp: 0 to 50°C • Humidity: 5 to 95% RH 	<ul style="list-style-type: none"> • Temp: 0 to 50°C • Humidity: 5 to 95% RH 	<ul style="list-style-type: none"> • Temp: 0 to 50°C • Humidity: 5 to 95% RH 	<ul style="list-style-type: none"> • 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

Battery Backup Power (BBP®) Modules

Supporting MicroBlade™ and New Generation SuperBlade®

Key Benefits

- Fully Integrated design provides power redundancy, battery backup, system cooling and from a single hot-pluggable 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-pluggable 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	● 4 modules	● 4 modules	● 4 modules	● 2 modules

Specifications

Model	PWS-1K20B-BR
Total Output Power	1200W
Input	11.2 to 12.9V _{DC}
Output	12V, 12V _{SB}
Form Factor	SuperBlade®/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

7U SuperBlade®

Industry's Most Versatile Blade Portfolio for Enterprise, Data Center, HPC and Cloud Computing



7U 3-GPU Blade



7U TwinBlade®
Double Density



7U DataCenter Blade®
NVMe



7U StorageBlade®
NVMe



7U 4-Socket Blade



7U PCI-E Blade

7U GPU/Intel® Xeon Phi™ Coprocessor Blade

Up to 20 GPU/Intel® Xeon Phi™ coprocessor or 40 PCI-E cards, or 90 SSD drives



7U SuperBlade® Servers

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

2 GPU/Xeon Phi™



SBI-7128RG-X/F/F2

2x 2S with 10GbE/FDR



SBI-7228R-T2F/T2F2/T2X

6 SAS and NVMe



SBI-7128R-C6(N)

3 SAS and NVMe



SBI-7428R-T3/C3(N)

Intel® Xeon® Processor E5-4600 v2/E5-2600 v2

4S with 10GbE/FDR



SBI-7147R-S4X/S4F

2x 2S with 10GbE/FDR



SBI-7227R-T2

Dual Intel® Xeon® Processor E5-2600/E5-2600 v2

6 SAS2 SSD/HDD



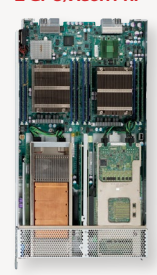
SBI-7127R-S6

3 Embedded GPU



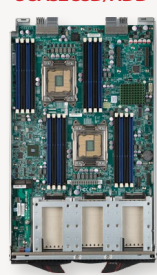
SBI-7127RG3

2 GPU/Xeon Phi™



SBI-7127RG-E

3 SAS2 SSD/HDD



SBI-7427R-S3/T3

PCI-E 3.0x16



SBI-7427R-SH/S2L

2 PCI-E 2.0x16



SBI-7127RG

PCI-E 3.0x16



SBI-7127R-SH

7U SuperBlade® Enclosures and Cabinet

Best Density

- Up to 20x 2S Nodes (Intel® Xeon® Processor E5-2600 v4/v3)
- Up to 10x 4S Nodes (Intel® Xeon® Processor E5-4600 or Intel® Xeon® Processor E5-4600 v2 product families)

High Efficiency Power for Earth-Friendly Operations

- Platinum Level (94%+) 3000W and 2500W power supplies with N+N or N+1 redundancy
- Flexibility: 1620W, 2500W, or 3000W options



Model	SBE-710E/Q Series	SBE-714D/E/Q Series
Blade Server	Up to 10 hot-pluggable blade servers	Up to 14 hot-pluggable blade servers
InfiniBand Switch	710Q: Up to 2 hot-pluggable FDR/QDR IB switches	714Q: Up to 2 hot-pluggable FDR/QDR IB switches
Ethernet Switch	<ul style="list-style-type: none"> • Up to 2 hot-pluggable Gigabit Ethernet switches or pass-through modules • 710E: Up to two hot-pluggable 10G pass-through modules • 710Q: Up to two hot-pluggable 10G Ethernet switches 	<ul style="list-style-type: none"> • Single (714D) or up to 2 (714E/Q) hot-pluggable Gigabit Ethernet switches • 714E: Up to 2x 10G pass-through modules • 714Q: Up to 2 hot-pluggable 10G Ethernet switches
Management	<ul style="list-style-type: none"> • Up to 2 hot-pluggable management modules providing remote KVM and IPMI 2.0 functionalities 	Single (714D) or up to 2 (714E/Q) hot-pluggable management modules providing remote KVM and IPMI 2.0 functionalities
Power Supply	Hot-pluggable 1620W/2500W (710E) or 1620W/2500W/3000W (710Q) power supplies, N+1 redundancy	Hot-pluggable 1620W (714D/E) or 1620W/2500W (714Q) power supplies, N+1 redundancy
Cooling Design	Front to back	Front to back
LED Indicators	Power LED, Fault LED	Power LED, Fault LED
Rack Unit	7U	7U
Dimensions (H x W x D)	12.2" (309.88mm) x 17.6" (447.04mm) x 29" (736.6mm)	12.2" (309.88mm) x 17.6" (447.04mm) x 29" (736.6mm)



Model	SBE-720D/E/F Series
Blade Server	Up to 10 hot-pluggable blade servers
InfiniBand Switch	<ul style="list-style-type: none"> • 720F: Up to 2 hot-pluggable FDR 56G InfiniBand switches • 720E: Up to 2 hot-pluggable FDR-10/QDR InfiniBand switches
Ethernet Switch	Up to 2 hot-pluggable Gigabit Ethernet switches or pass-through module
Management	Single hot-pluggable management module providing remote KVM and IPMI 2.0 functionalities
Power Supply	Hot-pluggable 2500W/3000W Platinum Level (94%) power supplies, N+1 redundancy
Cooling Design	Front to back
LED Indicators	Power LED, Fault LED
Rack Unit	7U
Dimensions (H x W x D)	12.2" (309.88mm) x 17.6" (447.04mm) x 29" (736.6mm)

Personal Supercomputing Mini-Rack Cabinet



CSE-RACK14U

Mobility, Protection and Security - Ideal for Office Application/Environment or Personal Supercomputing

* Not recommended for SBI-7227R-T2, SBI-7127RG/RG-E, and 7228R-T2F/T2X

Key Features

- Mobile 14U Rack Space
- Ideal for Office Environments - The same height as standard office furniture (30.64"H)
- Upgradeable - Rear frame mounting
- Mobile - casters for easy mobility

Specifications

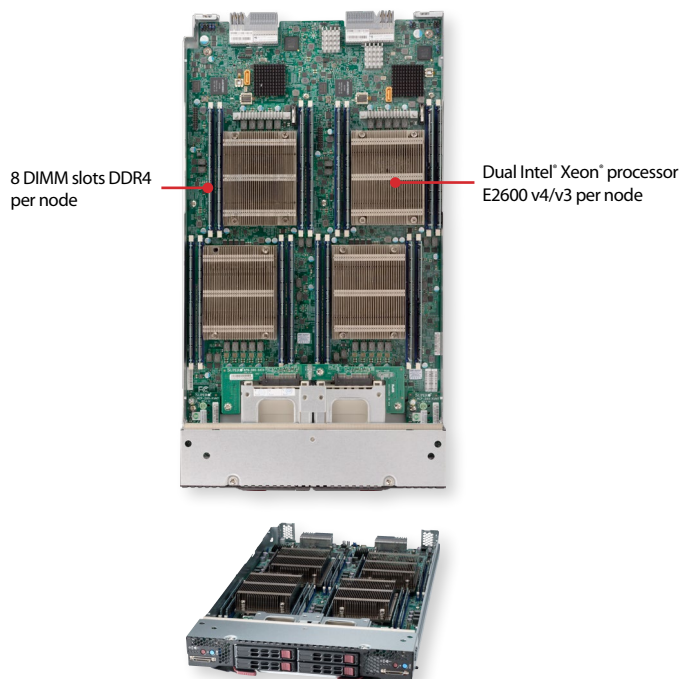
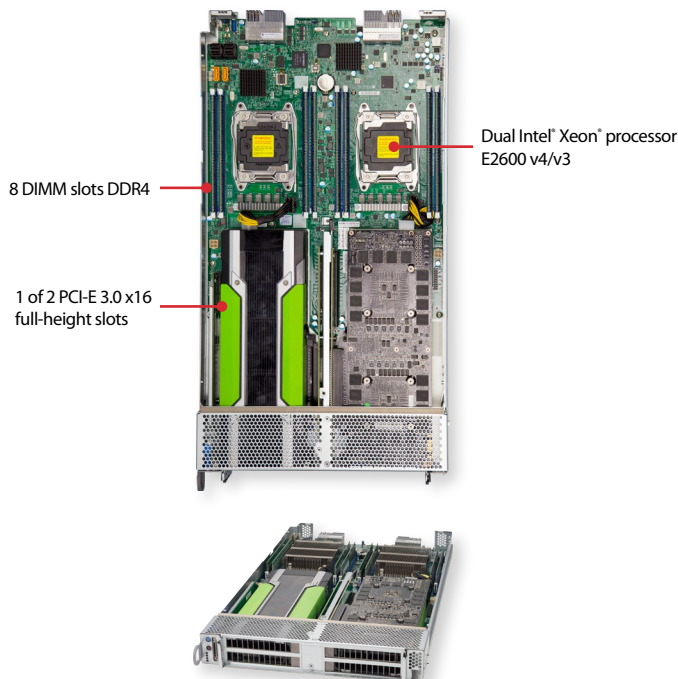
- 14U cabinet
- Dimensions (W x D x H): 21.65" (549.91mm) x 34.65" (880.11mm) x 30.64" (778.256mm)
- Supports standard 19" rackmount servers with standard mounting holes
- Front door lock, casters with brakes
- Stability support
- Optional air filter

7U SuperBlade® X10 Server Technical Specifications

Dual Intel® Xeon® Processor E5-2600 v4/v3 Product Families Supported

2 GPUs/Intel® Xeon Phi™ coprocessors or 4 PCI-E 3.0 x8 Cards

Dual-node 2S with 10G Ethernet or FDR InfiniBand



2 GPU/Intel® Xeon Phi™ coprocessors Blade

TwinBlade®

Model	SBI-7128RG-X/F/F2	SBI-7228R-T2F/T2F2/T2X
Server Nodes/42U Rack	60 (+120 GPU/Intel® Xeon Phi™ coprocessor cards)	120
Processor	Dual Intel® Xeon® processor E5-2600 v4/3 product families with QPI up to 9.6 GT/s	Dual Intel® Xeon® processor E5-2600 v4/3 product families with QPI up to 9.6 GT/s per node
Chipset	Intel® C612	Intel® C612
Memory Support	8 DDR4-2400 DIMM slots	8 DDR4-2400 DIMM slots per node
Max Memory	1TB	1TB per node
Expansion & Drive Bays	<ul style="list-style-type: none"> Up to 2 PCI-E 3.0 x16 (full-height) cards optimized for Intel® Xeon Phi™ coprocessors or NVIDIA® Tesla® K80, M40/M60 or 4x PCI-E 3.0 x8 cards 2 SuperDOM Ports or 1 SATA3 SSD or Up to 8x 2.5 SATA3 SSD/HDD + 1x 2.5" SSD** 	<ul style="list-style-type: none"> 2 hot-plug 2.5" SATA3 drive bays per node 1 SuperDOM Port per node
Storage RAID	Intel® PCH SATA3 RAID 0,1	Intel® PCH SATA3 RAID 0,1
InfiniBand/10G Option	<ul style="list-style-type: none"> -X: Onboard dual-port 10G Ethernet -F: Onboard single-port FDR InfiniBand* -F2: Onboard dual-port FDR InfiniBand* 	<ul style="list-style-type: none"> -T2X: Onboard dual-port 10G Ethernet per node -T2F: Onboard single-port FDR InfiniBand* per node -T2F2: Onboard dual-port FDR InfiniBand* per node
Ethernet Interface	Dual-port Gigabit	Dual-port Gigabit per node
Management	<ul style="list-style-type: none"> IPMI 2.0 KVM over IP Virtual Media over LAN Supermicro RSD 	<ul style="list-style-type: none"> IPMI 2.0 KVM over IP Virtual Media over LAN Supermicro RSD
LED Indicators	Fault LED, Network Activity LED, Power LED, UID / KVM LED	Fault LED, Network Activity LED, Power LED, UID / KVM LED per node
Dimensions (H x W x D)	1.67" (42.42mm) x 11.32" (287.53mm) x 20.5" (520.7mm)	1.67" (42.42mm) x 11.32" (287.53mm) x 20.5" (520.7mm)
Chassis	7U: <ul style="list-style-type: none"> SBE-720F SBE-720E SBE-710Q 	7U: <ul style="list-style-type: none"> SBE-720F SBE-720E

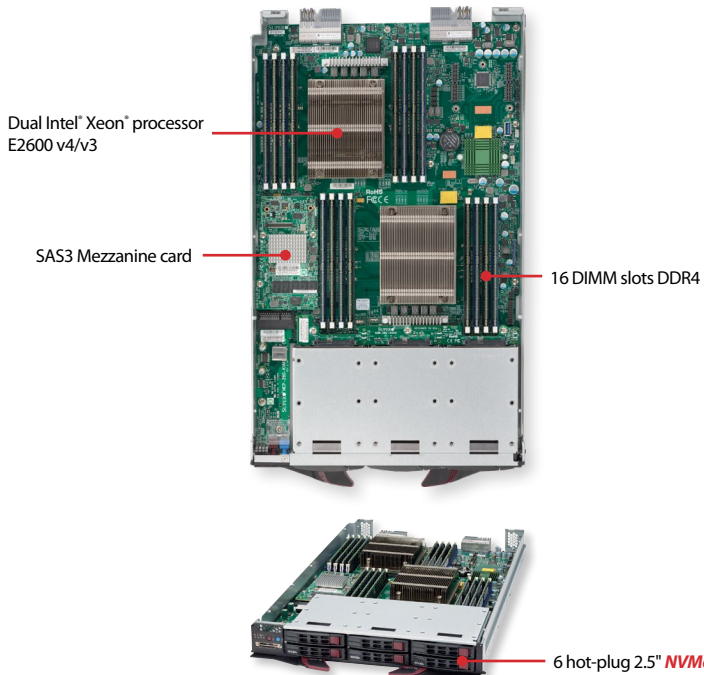
* -X/T2X: Dual 10G Ethernet ports on-board
 -F/T2F: Single InfiniBand port on-board
 -F2/T2F2: Dual InfiniBand ports onboard

** If no GPU/Intel® Xeon Phi™ is installed

7U SuperBlade® X10 Server Technical Specifications

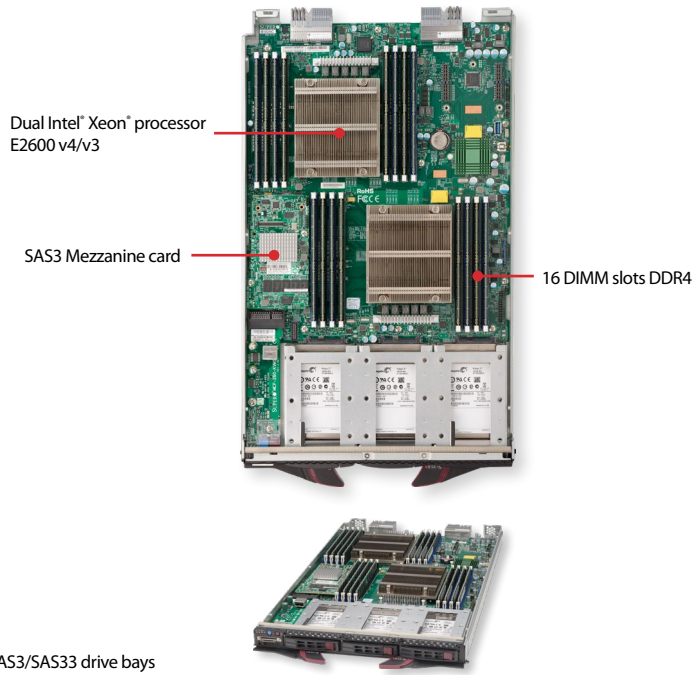
Dual Intel® Xeon® Processor E5-2600 v4/v3 Product Families Supported

SAS 3.0 12Gbps and NVMe



StorageBlade®

SAS 3.0 12Gbps and NVMe



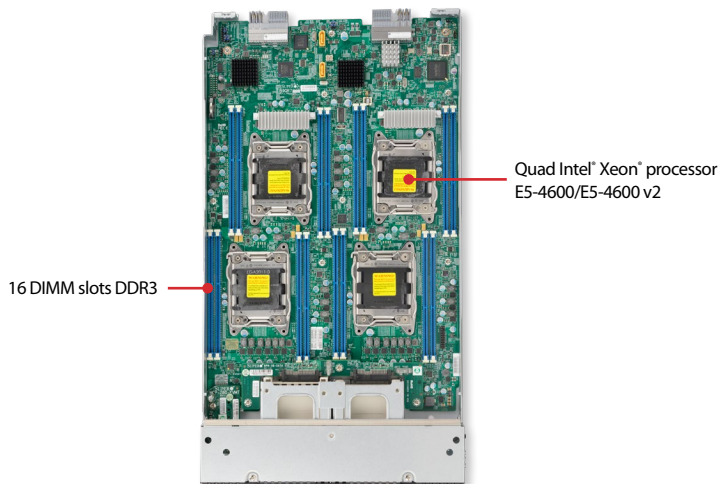
DatacenterBlade®

Model	SBI-7128R-C6(N)	SBI-7428R-T3(N)/C3(N)
Server Nodes/42U Rack	60	84
Processor	Dual Intel® Xeon® processor E5-2600 v4/3 product families with QPI up to 9.6 GT/s	Dual Intel® Xeon® processor E5-2600 v4/3 product families with QPI up to 9.6 GT/s
Chipset	Intel® C612	Intel® C612
Memory Support	16 DDR4-2400 DIMM slots	16 DDR4-2400 VLP DIMM slots
Max Memory	2TB	512GB
Expansion & Drive Bays	<ul style="list-style-type: none"> -C6: 6 hot-plug 2.5" SAS3/SATA3 drive bays -C6N: 3 hot-plug 2.5" SAS3/SATA3 drive bays and 3 hot-plug 2.5" NVMe drive bays 2 SuperDOM Ports 	<ul style="list-style-type: none"> -C3: 3 hot-plug 2.5" SAS3/SATA3 drive bays -T3: 3 hot-plug 2.5" SATA3 drive bays -T3N/-C3N: 3 hot-plug 2.5" NVMe/SATA3/SAS3(-C3N) drive bays 2 SuperDOM Ports
Storage RAID	Broadcom® 3108 with 2G Cache HW RAID 0,1,5,6,10,50 (Optional SuperCap for battery backup)	-T3/-T3N: Intel PCH SATA3 RAID 0,1,5 -C3/C3N: Broadcom® 3108 with 2G Cache HW RAID 0,1,5
InfiniBand/10G Option	<ul style="list-style-type: none"> FDR-10/QDR InfiniBand or 10GbE/FCoE mezzanine HCA 	<ul style="list-style-type: none"> FDR-10/QDR InfiniBand or 10GbE/FCoE mezzanine HCA
Ethernet Interface	Dual-port Gigabit	Dual-port Gigabit
Management	<ul style="list-style-type: none"> IPMI 2.0 KVM over IP Virtual Media over LAN Supermicro RSD 	<ul style="list-style-type: none"> IPMI 2.0 KVM over IP Virtual Media over LAN Supermicro RSD
LED Indicators	Fault LED, Network Activity LED, Power LED, UID / KVM LED	Fault LED, Network Activity LED, Power LED, UID / KVM LED per node
Dimensions (H x W x D)	1.67" (42.42mm) x 11.32" (287.53mm) x 20.5" (520.7mm)	1.19" (30.23mm) x 11.32" (287.53mm) x 18.9" (480.06mm)
Chassis	7U: <ul style="list-style-type: none"> SBE-720F SBE-720D SBE-710Q SBE-720E SBE-710E 	7U: <ul style="list-style-type: none"> SBE-714Q SBE-714D SBE-714E

7U SuperBlade® X9 Server Technical Specifications

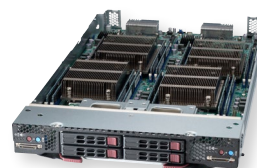
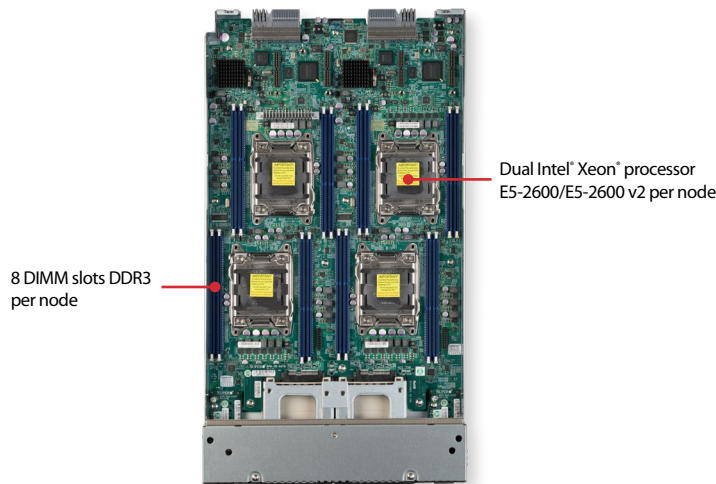
Quad Intel® Xeon® Processor E5-4600/E5-4600 v2 Product Families or
Dual Intel® Xeon® Processor E5-2600/E5-2600 v2 Product Families Supported

Quad Processor with 10G Ethernet or FDR InfiniBand



4-Socket Blade

Dual-node 2S with 10G Ethernet or FDR InfiniBand



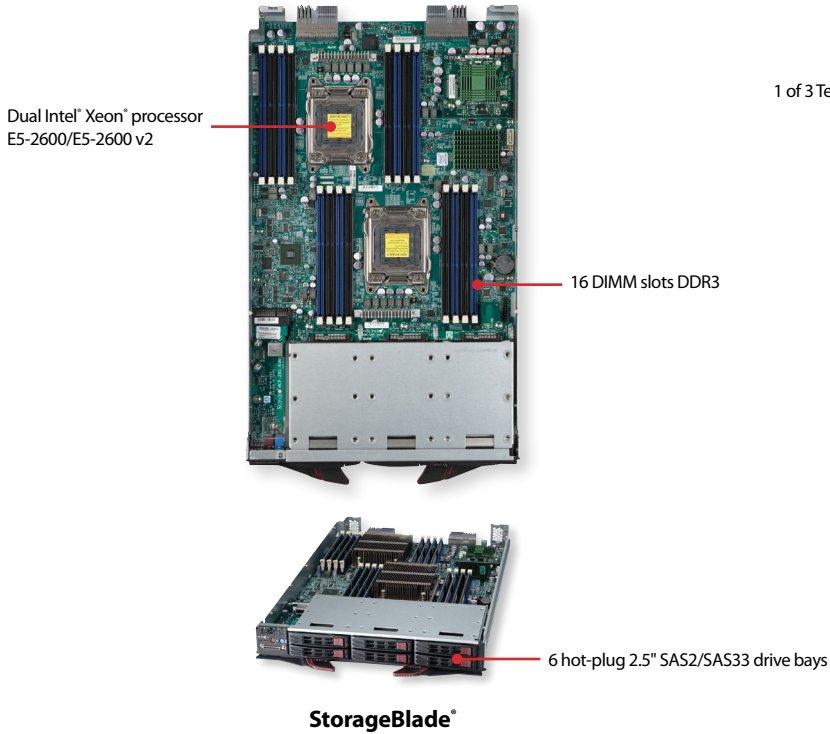
TwinBlade®

Model	SBI-7147R-S4X/S4F	SBI-7227R-T2
Server Nodes/42U Rack	60	120
Processor	Quad Intel® Xeon® processor E5-4600/E5-4600 v2 product families, with QPI up to 8.0GT/s	Dual Intel® Xeon® processor E5-2600/E5-2600 v2 product families, with QPI up to 8.0GT/s, per node
Chipset	Intel® C602J	Intel® C602J
Memory Support	16 DDR4-1866 DIMM slots	8 DDR4-1866 DIMM slots per node
Max Memory	1TB	512GB per node
Expansion & Drive Bays	<ul style="list-style-type: none"> • 4 hot-plug 2.5" SAS2/SATA3 drive bays • 2 SuperDOM Ports 	<ul style="list-style-type: none"> • 2 hot-plug 2.5" SAS2/SATA3 drive bays per node • 1 SuperDOM Ports per node
Storage RAID	Intel® PCH SATA3 RAID 0,1,1E,10	Intel® PCH SATA3 RAID 0,1
InfiniBand/10G Option	<ul style="list-style-type: none"> • -S4X: Onboard dual-port 10G Ethernet • -S4F: Onboard single-port FDR 56G IB 	<ul style="list-style-type: none"> • FDR-10/QDR InfiniBand or • 10GbE/FCoE mezzanine HCA
Ethernet Interface	Dual-port Gigabit	Dual-port Gigabit per node
Management	<ul style="list-style-type: none"> • IPMI 2.0 • KVM over IP • Virtual Media over LAN 	<ul style="list-style-type: none"> • IPMI 2.0 • KVM over IP • Virtual Media over LAN
LED Indicators	<ul style="list-style-type: none"> • Fault LED • Network Activity LED • Power LED • UID / KVM LED 	<ul style="list-style-type: none"> • Fault LED • Network Activity LED • Power LED • UID / KVM LED
Dimensions (H x W x D)	1.67" (42.42mm) x 11.32" (287.53mm) x 20.5" (520.7mm)	1.67" (42.42mm) x 11.32" (287.53mm) x 20.5" (520.7mm)
Chassis	7U: <ul style="list-style-type: none"> • SBE-720F • SBE-710Q 	7U: <ul style="list-style-type: none"> • SBE-720F • SBE-720D

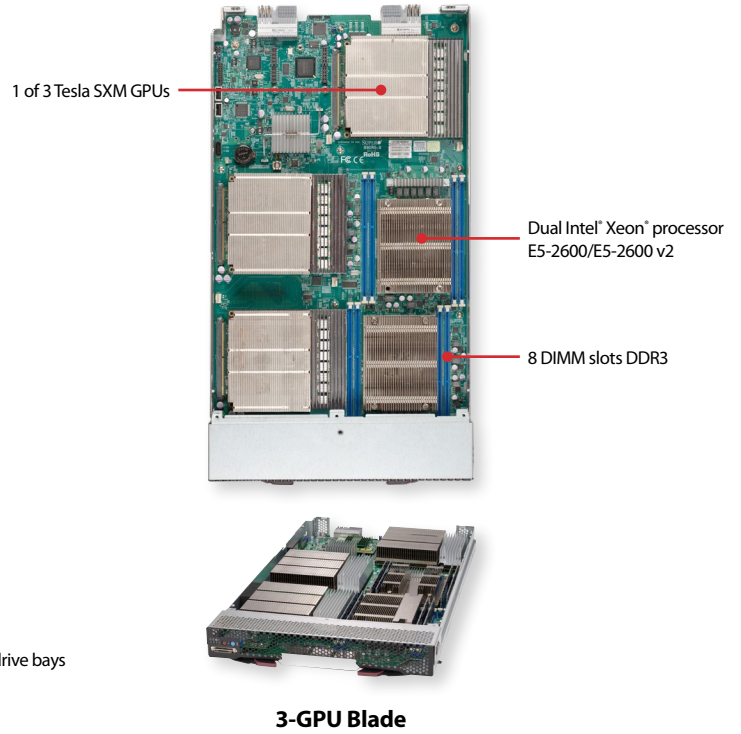
7U SuperBlade® X9 Server Technical Specifications

Dual Intel® Xeon® Processor E5-2600/E5-2600 v2 Product Families Supported

6 hot-plug 2.5" SAS2/SATA3



Dual Processor with 3 Embedded GPU

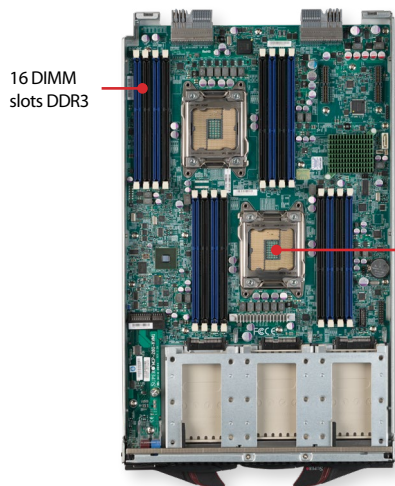


Model	SBI-7127R-S6	SBI-7127RG3
Server Nodes/42U Rack	60	60 (+180 GPU cards)
Processor	Dual Intel® Xeon® processor E5-2600/E5-2600 v2 product families, with QPI up to 8.0GT/s	Dual Intel® Xeon® processor E5-2600/E5-2600 v2 product families, with QPI up to 8.0GT/s
Chipset	Intel® C602J	Intel® C602J
Memory Support	16 DDR4-1866 DIMM slots	8 DDR4-1866 DIMM slots
Max Memory	1TB	512GB
Expansion & Drive Bays	6 hot-plug 2.5" SAS2/SATA3 drive bays	<ul style="list-style-type: none"> • 3 NVIDIA® Tesla® Kepler K20X-SXM/K40 SXM • 1 SuperDOM Port
Storage RAID	Broadcom® 2208 HW RAID 0,1,5,6,10,50 (Optional SuperCap for battery backup)	N/A
InfiniBand/10G Option	<ul style="list-style-type: none"> • FDR-10/QDR InfiniBand or • 10GbE/FCoE mezzanine HCA 	<ul style="list-style-type: none"> • FDR-10/QDR InfiniBand or • 10GbE/FCoE mezzanine HCA
Ethernet Interface	Dual-port Gigabit	Dual-port Gigabit
Management	<ul style="list-style-type: none"> • IPMI 2.0 • KVM over IP • Virtual Media over LAN 	<ul style="list-style-type: none"> • IPMI 2.0 • KVM over IP • Virtual Media over LAN
LED Indicators	<ul style="list-style-type: none"> • Fault LED • Network Activity LED • Power LED • UID / KVM LED 	<ul style="list-style-type: none"> • Fault LED • Network Activity LED • Power LED • UID / KVM LED
Dimensions (H x W x D)	1.67" (42.42mm) x 11.32" (287.53mm) x 20.5" (520.7mm)	1.67" (42.42mm) x 11.32" (287.53mm) x 20.5" (520.7mm)
Chassis	7U: <ul style="list-style-type: none"> • SBE-720F • SBE-720D • SBE-710Q • SBE-720E • SBE-710E 	7U: <ul style="list-style-type: none"> • SBE-720F • SBE-720D • SBE-710Q • SBE-720E • SBE-710E

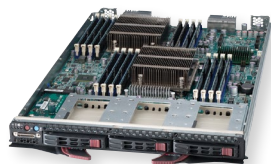
7U SuperBlade® X9 Server Technical Specifications

Dual Intel® Xeon® Processor E5-2600/E5-2600 v2 Product Families Supported

3 Hot-plug SAS 2.0 Drive Bays

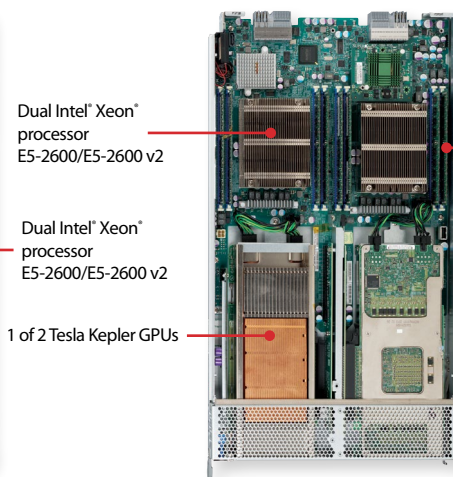


16 DIMM slots DDR3



DatacenterBlade®

2 PCI-E 2.0 x16 Expansion Slots

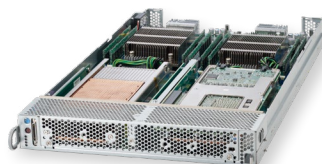


Dual Intel® Xeon® processor E5-2600/E5-2600 v2

Dual Intel® Xeon® processor E5-2600/E5-2600 v2

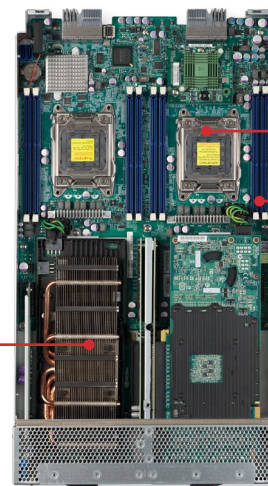
1 of 2 Tesla Kepler GPUs

8 DIMM slots DDR3



2-GPU/Intel® Xeon Phi™ Coprocessor Blade

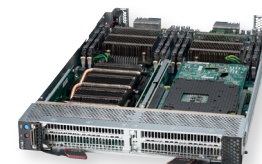
2 PCI-E 2.0 x16 Expansion Slots



Dual Intel® Xeon® processor E5-2600/E5-2600 v2

8 DIMM slots DDR3

1 of 2 PCI-E 2.0 x16 (FHFL) slots



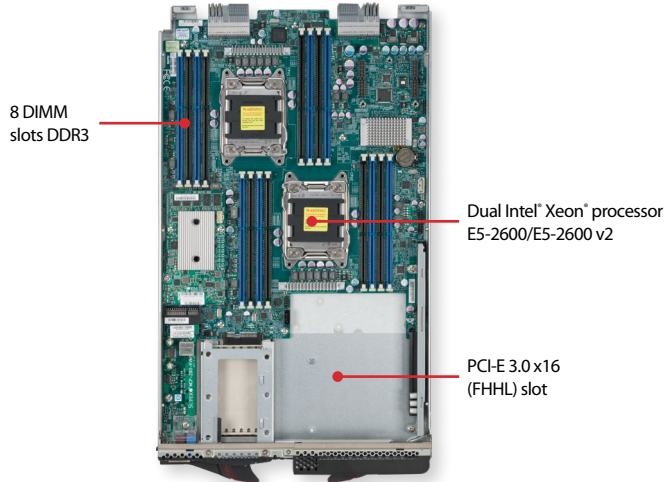
Dual PCI-E Blade

Model	SBI-7427R-S3/T3	SBI-7127RG-E	SBI-7127RG
Server Nodes/42U Rack	84	60 (+120 GPU/Intel® Xeon Phi™ coprocessors)	60 (+120 PCI-E cards)
Processor	Dual Intel® Xeon® processor E5-2600/E5-2600 v2 product families, with QPI up to 8.0GT/s	Dual Intel® Xeon® processor E5-2600/E5-2600 v2 product families, with QPI up to 8.0GT/s	Dual Intel® Xeon® processor E5-2600/E5-2600 v2 product families, with QPI up to 8.0GT/s
Chipset	Intel® C602J	Intel® C602J	Intel® C602J
Memory Support	16 DDR4-1866 VLP DIMM slots	8 DDR4-1866 DIMM slots	8 DDR4-1866 DIMM slots
Max Memory	512GB	512GB	512GB
Expansion & Drive Bays	3 hot-plug 2.5" SAS2/SATA3 drive bays	<ul style="list-style-type: none"> • 2 PCI-E 3.0 x16 (FHFL) slots optimized for NVIDIA® Tesla® Kepler K10/K20M/K40M/K20X and GRID K1/K2 GPUs, or Intel® Xeon Phi™ coprocessor card • 1 SuperDOM Port or 1 SSD 	<ul style="list-style-type: none"> • 2 PCI-E 2.0 x16 (FHFL) slots • 1x SuperDOM Port
Storage RAID	<ul style="list-style-type: none"> • -S3: Broadcom® 2208 HW RAID 0,1,5 • -T3: Intel® PCH SATA3 RAID 0,1,5 	N/A	N/A
InfiniBand/10G Option	<ul style="list-style-type: none"> • FDR-10/QDR InfiniBand or • 10GbE/FCoE mezzanine HCA 	<ul style="list-style-type: none"> • FDR-10/QDR InfiniBand or • 10GbE/FCoE mezzanine HCA 	<ul style="list-style-type: none"> • FDR-10/QDR InfiniBand or • 10GbE/FCoE mezzanine HCA
Ethernet Interface	Dual-port Gigabit	Dual-port Gigabit	Dual-port Gigabit
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	<ul style="list-style-type: none"> • Fault LED • Network Activity LED • Power LED • UID / KVM LED 	<ul style="list-style-type: none"> • Fault LED • Network Activity LED • Power LED • UID / KVM LED 	<ul style="list-style-type: none"> • Fault LED • Network Activity LED • Power LED • UID / KVM LED
Dimensions (H x W x D)	1.19" (30.23mm) x 11.32" (287.53mm) x 18.9" (480.06mm)	1.67" (42.42mm) x 11.32" (287.53mm) x 20.5" (520.7mm)	1.67" (42.42mm) x 11.32" (287.53mm) x 20.5" (520.7mm)
Chassis	7U: <ul style="list-style-type: none"> • SBE-714Q • SBE-714E • SBE-714D 	7U: <ul style="list-style-type: none"> • SBE-710E • SBE-720E 	7U: <ul style="list-style-type: none"> • SBE-720F • SBE-720E • SBE-710Q • SBE-710E

7U SuperBlade® X9 Server Technical Specifications

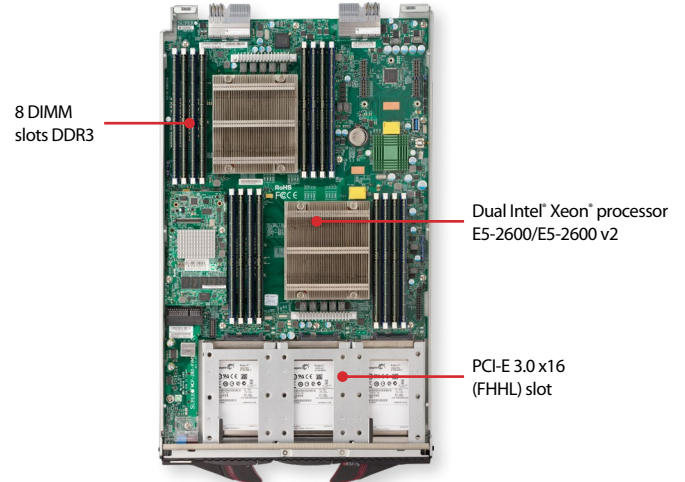
Dual Intel® Xeon® Processor E5-2600/E5-2600 v2 Product Families Supported

PCI-E 3.0 x16 Expansion Slot



PCI-E Blade

PCI-E 3.0 x16 Expansion Slot



PCI-E Blade

Model	SBI-7427R-SH/S2L	SBI-7127R-SH
Server Nodes/42U Rack	84	60
Processor	Dual Intel® Xeon® processor E5-2600/E5-2600 v2 product families, with QPI up to 8.0GT/s	Dual Intel® Xeon® processor E5-2600/E5-2600 v2 product families, with QPI up to 8.0GT/s
Chipset	Intel® C602J	Intel® C602J
Memory Support	16 DDR4-1866 DIMM slots	16 DDR4-1866 DIMM slots
Max Memory	256GB	512GB
Expansion & Drive Bays	<ul style="list-style-type: none"> -SH: 1 PCI-E 3.0 x16 (FHHL) slot -S2L: 1 PCI-E 3.0 x16 (HHHL) slot -SH: 1 hot-plug 2.5" SAS2/SATA3 drive bays (-SH) -S2L: 2 hot-plug 2.5" SAS2/SAT3 drive bays (-S2L) 	<ul style="list-style-type: none"> 1 PCI-E 3.0 x16 (FHHL) slot 2 hot-plug 2.5" SAS2/SATA3 drive bays
Storage RAID	Intel® PCH SATA3 RAID 0,1	Broadcom® 2308 SW RAID 0,1
InfiniBand/10G Option	<ul style="list-style-type: none"> FDR-10/QDR InfiniBand or 10GbE/FCoE mezzanine HCA 	<ul style="list-style-type: none"> FDR-10/QDR InfiniBand or 10GbE/FCoE mezzanine HCA
Ethernet Interface	Dual-port Gigabit	Dual-port Gigabit
Management	<ul style="list-style-type: none"> IPMI 2.0 KVM over IP Virtual Media over LAN 	<ul style="list-style-type: none"> IPMI 2.0 KVM over IP Virtual Media over LAN
LED Indicators	<ul style="list-style-type: none"> Fault LED Network Activity LED Power LED UID / KVM LED 	<ul style="list-style-type: none"> Fault LED Network Activity LED Power LED UID / KVM LED
Dimensions (H x W x D)	1.19" (30.23mm) x 11.32" (287.53mm) x 18.9" (480.06mm)	1.67" (42.42mm) x 11.32" (287.53mm) x 20.5" (520.7mm)
Chassis	7U: <ul style="list-style-type: none"> SBE-714Q SBE-714D SBE-714E 	7U: <ul style="list-style-type: none"> SBE-720F SBE-720D SBE-710Q SBE-720E SBE-710E

7U SuperBlade® Networking Solutions

	1G Ethernet		10G Ethernet and Converged Network	
Model	SBM-GEM-001	SBM-GEM-X3S+	SBM-XEM-X10SM*	SBM-XEM-F8X4SM*
Type	Layer 2 Gigabit Ethernet Switch	Layer 2/3 Gigabit Ethernet Switch	Layer 2/3 10G Ethernet Switch	Data Center Converged Switch with FCoE
Downlinks	14x Gigabit Ethernet Downlinks	14/20x Gigabit Ethernet Downlinks	10/20x 10GG Ethernet Downlinks	10/20x 10G Downlinks to ports on mezzanine cards, support DCB, FCoE
Uplinks	10x 1G Ethernet RJ45 Uplinks	3x 10G Ethernet SFP+ and 4x 1G Ethernet RJ45 Uplinks	4 (TwinBlade Servers)/10x (10-Blade Servers) 10G Ethernet SFP+ Uplinks	-Ethernet: 4x 10G Ethernet SFP+ Uplinks** -Fibre Channel: 6x Fibre Channel N_Port Uplinks, support 2/4/8G
Stacking	N/A	Up to 8 switches	N/A	N/A
Trunking	Static Link aggregation support (802.3ad)	Full Link aggregation support (802.3ad) MLAG	Full Link aggregation support (802.3ad) MLAG	Full Link aggregation support (802.3ad) MLAG
Jumbo Frame	Up to 9k bytes	Up to 16k bytes (10G) or 9K bytes (1G)	Up to 16K bytes (10G) or 9K bytes (1G)	Up to 12K bytes (10G) or 2112 bytes (FC)
Remote Management	Browser-based management	Browser-based management/CLI	Browser-based management/CLI	Browser-based management/CLI
Layer 2 Features	VLANs, STP, RSTP, 802.1x	VLANs, STP, RSTP, MSTP, IGMP snooping, 802.1x	4K VLANs, STP, RSTP, MSTP, IGMP snooping, 802.1x	4K VLANs, STP, RSTP, MSTP, IGMP snooping, 802.1x
Layer 3 Features	N/A	ACL, DHCP, VRRP, RIP, OSPF, BGP, IPv6, RIPng, OSPFv3, IGMP, PIM, DVMRP, QoS	ACL, DHCP, VRRP, RIP, OSPF, BGP, IPv6, RIPng, OSPFv3, IGMP, PIM, DVMRP, QoS	ACL, DHCP, VRRP, RIP, OSPF, BGP, IPv6, RIPng, OSPFv3, IGMP, PIM, DVMRP, QoS
OS	Software upgradeable	Software upgradeable	Software upgradeable	Software upgradeable

*"M" version supports Mini-CMM (BMB-CMM-002) ** SBE-710 series enclosure only

	Ethernet Pass-Through		InfiniBand
Model	SBM-GEP-T20	SBM-GEM-002	SBM-IBS-F3616(M)*
Type	Ethernet pass-through module for TwinBlade SBE-720D and SBE-720E enclosures	Ethernet pass-through module for 10-Blade and 14-Blade enclosures	4x FDR InfiniBand Switch
Downlinks	20x 1G Ethernet Downlinks	14x 1G Ethernet Downlinks	20 4x FDR Downlinks
Uplinks	20x 1G Ethernet RJ45 Uplinks	14x 1G Ethernet RJ45 Uplinks (Speed fixed at 1G - no auto negotiation)	16 4x FDR QSFP+ Uplinks

*"M" version supports Mini-CMM (BMB-CMM-002)

	InfiniBand/10G Ethernet/FCoE Mezzanine HCA			
Model	AOC-XEH-IN2	AOC-XEH-B2S	AOC-IBH-X3QD	AOC-IBH-X3QS
Chipset	Intel® 82599 (Niantic)	Broadcom 57402 (Cumulus)	Mellanox ConnectX3	Mellanox ConnectX3
Ports	Dual-port 10G Ethernet (FCoE support)	Dual-port 10G Ethernet (NPAR support)	Dual-port 4x FDR InfiniBand or 10G Ethernet	Single-port 4x FDR InfiniBand or 10G Ethernet

Optional Parts List				
Type	Part Number	Description	Part Number	Description
SFP+ Cable	CBL-0347L	39.37" (100cm) 10GbE SFP+ TO SFP+, Twinax copper cable	CBL-0348L	118.11" (300cm) 10GbE SFP+ TO SFP+, Twinax copper cable
SFP+ Cable	CBL-0456L	78.74" (200cm) 10GbE SFP+ TO SFP+, Twinax copper cable	CBL-0349L	196.85" (500cm) 10GbE SFP+ TO SFP+, Twinax copper cable
QSFP Cable	CBL-NTWK-0417-01	1M INFINIBAND QSFP TO QSFP QDR with EEPROM. 30AWG	CBL-NTWK-0446-01	3M INFINIBAND QSFP TO QSFP QDR with EEPROM. 28AWG
QSFP Cable	CBL-NTWK-0325-02	2M INFINIBAND QSFP TO QSFP QDR with EEPROM. 26AWG	CBL-NTWK-0422-01	5M INFINIBAND QSFP TO QSFP QDR with EEPROM. 26AWG
SFP Transceiver	AOC-TFC8-F5	8G FC SFP Transceiver for Fiber Channel	AOC-E10GSFPSR	10Gb SFP+ Transceiver for Ethernet

7U SuperBlade® Chassis Management Modules

Key Features

- Remotely manage and monitor server blades, power supplies, cooling fans, and networking switches
- 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
- Remote Power Control
- Management Tools - IPMIView, CLI (Command Line Interface)
- Supports RMCP & RMCP+ Protocols
- Batch patching and BIOS/IPMI update

Specifications

- VGA port, 2x USB ports
- Remote Management Processor and sub-system
- 1x LAN port
- Video ADC, Video Compress FPGA
- IPMI Management
- Hot-pluggable Capable
- GBX Backplane Connector



SBM-CMM-003
TwinBlade® CMM
Module



BMB-CMM-002
Mini CMM Installs in SBM-XEM-002M,
SBM-IBS-Q3616M, SBM-IBS-Q3618M
SBM-XEM-X10SM, SBM-IBS-F3616M
and SBM-XEM-F8X4SM
CMM (Chassis Management Module)

7U SuperBlade® Power Supply and Power Cable Guide

Key Advantages of Supermicro High-Efficiency SuperBlade® Power Supplies

Availability - Non-stop power with N+1 redundant power supply modules

Cost Saving - With 94% Platinum Level efficiency, power consumption is significantly reduced, providing a real-world advantage for our environment

Investment Protection - Power capacity headroom for future generation processors

Easy Installation - Snap-in installation from the back of the chassis, hot-pluggable in operation

Intelligent Power Infrastructure - Each power enclosure includes a power management module that monitors the power supplies and the power enclosure that connects to the blade management



Model	PWS-3K01-BR	PWS-2K53-BR	PWS-1K62-BR
Output	3000W	2500W	1620W
Type	Redundant Module (N+1)	Redundant Module (N+1)	Redundant Module (N+1)
+12V	250A	208A	132A (200~240VAC input) 100A (100-140 VAC input)
5VSB	16A	16A	16A
PFC	Yes	Yes	Yes
Peak Efficiency	94%+ (Platinum)	94%+ (Platinum)	93%+
Input AC Range	200~240VAC	200~240VAC	100~240VAC
Operating Conditions	Temp: -5 to 50C Humidity: 5 to 95% RH	Temp: -5 to 50C Humidity: 5 to 95% RH	Temp: -5 to 50C Humidity: 5 to 95% RH
Fan Type	4x 90mm fans	4x 90mm fans	2x 90mm fans

At the current time, the Supermicro® SuperBlade® is shipping with power supplies of 1620W, 2500W, and 3000W. Although the Power Distribution Unit that is recommended by Supermicro supports up to four power connections, only two connections should be made to each PDU. The PDU has a NEMA L6 connector that can plug into a NEMA L6 or equivalent socket. Each PDU, supporting two power supplies, must be plugged into a separate circuit that provides 30 Amps of power and a voltage ranging from 200-240V. Table 1 below illustrates the various Power Supplies offered by Supermicro. This table shows the maximum power requirement of each model.

Power Supply Amperage Draw

Model	Watts	Low Volts	High Volts	Low Amps	10% Reserve	High Amps	10% Reserve	Max Amps
PWS-3K01-BR	3000	200	240	15	1.5	17.5	1.8	19.3
PWS-2K53-BR	2500	200	240	12.9	1.3	15.4	1.5	17
PWS-1K62-BR	1620	200	240	8.3	0.9	9.8	1.0	10.8
PWS-1K62-BR	1200	100	134	10.5	1.0	14.0	1.4	15.4

Power Supply Cable Options

Country	Australia	China	Isreal	India / S. Africa	Italy/S. America	Euro	UK	US	US
Model	CBL-0238L (2500W/3000W)	CBL-0239L (2500W/3000W)	CBL-0243L (2500W/3000W)	CBL-0245L (2500W/3000W)	CBL-0244L (2500W/3000W)	CBL-0240L (2500W/3000W)	CBL-0241L (2500W)	CBL-0247L (2500W/3000W)	CBL-0250L (1620W)
Length	2.5m	2.5m	2.5m	2.5m	2.5m	2.5m	2.5m	2.5m	6ft
Inlet	AS 3112	GB-2099-1-1996	SI32	BS 546	CEI 23-16	"Schuko" CEE 7/7	BS 1363	NEMA 6-20P or equivalent	NEMA 5-20P
Equip Outset	IEC-60320-C19	IEC-60320-C19	IEC-60320-C19	IEC-60320-C19	IEC-60320-C19	IEC-60320-C19	IEC-60320-C19	IEC-60320-C19	IEC-60320-C13
Certificate	SAA	CCEE	SII	SABS	VDE, HAR	VDE, KEMA, CEBC, NEMKO, DEMKO, SETI, OVE, SEV	BSI	UL	UL/CUL
Current	15A	16A	16A	16A	16A	15A	15A	20A	15A
Voltage	250V	250V	250V	250V	250V	250V	250V	250V	250V

We Keep IT Green®

Disaggregated Resource Saving Architectures



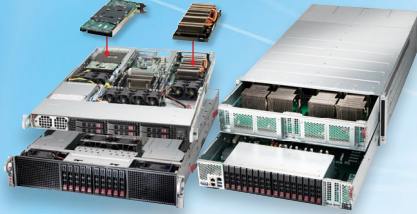
BigTwin™
4/2 DP Nodes in 2U, 3 UPI
24x 2.5" NVMe/SAS3/SATA3 drives



8U/6U/4U SuperBlade®
Up to 20 DP/10 MP Nodes



3U/6U MicroBlade
0.05/0.1/0.2U MicroBlade Servers in 3U/6U



GPU/Coprocessor Supercomputing
Multi TeraFLOPS Servers/Workstations/Blades



1U 36/32 NVMe Servers and JBOD
Petabyte Scale All-Flash NVMe Storage



60/45x 3.5"
Top-Loading Drives in 4U

26" Depth



FatTwin™
8/4 Nodes in 4U
Front or Rear I/O



All Flash Solutions
NVMe 2U/1U Storage Systems

Ultra
Enterprise Class Computing



Datacenter Optimized
Datacenter PUE < 1.1
47°C Ambient Server Solutions



Comprehensive Server, Storage and Networking Product Lines Optimized for IT, Datacenter, Embedded, HPC and Cloud Computing



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