Advantages

- New 2nd Generation Intel® Xeon® Scalable processors supported
- New Intel® Xeon® W-2100/W-2200, E-2100/E-2200, and D-2100 series processors supported
- 2-socket (2S), 4-socket (4S) and 1-socket (1S) blade servers
- Up to 280 nodes per rack, up to 200 GPUs per rack
- Hot-plug U.2 NVMe SSD supported, up to 8 drives per blade server
- 100G EDR InfiniBand, 100G Intel® Omni-Path, and 25G/10G/1G Ethernet switches
- Redundant AC/DC power supplies and Battery Backup Power (BBP™) modules
- Supermicro RSD and Redfish RESTful APIs supported
- Free-air cooling designs deliver lowest PUE
New Generation

SuperBlade®

- Systems in 8U, 6U and 4U form factors
- 1-socket (1S), 2-socket (2S) and 4-socket (4S) blade servers
- Support up to 205W TDP 2nd Generation 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®

Enables the independent upgrade of compute modules

- 10/14 1S/2S blade servers per enclosure, up to 98x nodes per 42U rack
- Maximum memory capacity - 24 DIMMs (2S), 12 DIMMs (1S)
- 10 blade system supports redundant 25G Ethernet switches
- Up to 3 hot-plug NVMe drives per blade server

Supermicro Disaggregated Server Design

Compute Module

Storage Module

Intel® Xeon®
W-2100/W-2200
1-Socket

2nd Gen Intel® Xeon® Scalable Processors
1-Socket

NEW!

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

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

1 Models configurable for up to 10 blade servers in each 6U enclosure.
2 Models configurable for up to 14 blade servers in each 6U enclosure.

Actual product may look different depending on blade server, networking and power supply options.
SuperBlade® / MicroBlade™ Server Solutions

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
- 20x 1-socket GPU blade servers (40 GPUs)
- 100G EDR IB or Intel Omni-Path, 10G/25G Ethernet switches

Intel® Xeon®
E-2100/E-2200
1-Socket + GPU
SBI-4119MG-X
SBI-4129P-C2N/T3N
SBI-8149P-C4N/T8N

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 (12 VLP DIMM + 2 NVMe) blade servers
- 2x 10G Ethernet switches

Intel® Xeon® Scalable Processors
2-Socket
SBI-4429P-T2N

NEW!
80 PLUS TITANIUM
nvm EXPRESS
128Gb/s Serial Attached SAS
8U SuperBlade®

Designed for High-Performance Computing and Most Demanding Enterprise Workloads

An 8U SuperBlade® system supports up to 20x 1-socket or 2-socket blade servers, or 10x 4-socket servers. As well, it can support 1x 100G Intel® Omni-Path or 100G EDR InfiniBand switch and 2x 10G/1G Ethernet switches optimized for HPC use cases, or 2x 10G/1G and 2x 25G Ethernet switches for enterprise applications. SuperBlade also offers an 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® Servers

Up to 20x 1S nodes per enclosure
1-Socket, Intel® Xeon® E-2100/E-2200
GPU, M.2 NVMe/SATA3

Up to 20x 2S nodes per enclosure
2-Socket, 2nd Gen Intel® Xeon® Scalable
100G, NVMe/SAS3/SATA3

Up to 10x 4S nodes per enclosure
4-Socket, 2nd Gen Intel® Xeon® Scalable
100G, NVMe/SAS3/SATA3

SBI-4119MG-X
SBI-4129P-C2N/T3N
SBI-8149P-C4N/T8N

NEW!
# 8U SuperBlade® Enclosures

**HPC Optimized**
- 1x 100GbE Switch
- 2x 10GbE Switches
- 1x CMM

**Enterprise Optimized**
- 2x 25GbE Switches
- 2x 10GbE Switches
- 2x CMM

**TCO Optimized**
- 2x 10GbE Switches
- 1x CMM

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

## 8U Enclosure | SBE-820 Series
| Processor Blade | • Up to 20 hot-pluggable half-height 1-socket or 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 | **SBE-820C/CB only**: Single 100G EDR InfiniBand or Intel® Omni-Path switch with add-on card |
| Ethernet Switch | • **SBE-820/J/JB only**: Up to 4 switches, 2 hot-pluggable 25G Ethernet switches with add-on card and 2 hot-pluggable 10G Ethernet switches
| • **SBE-820C/CB/L only**: Up to 2 hot-pluggable 10G Ethernet switches |
| Chassis Management Module (CMM) | Single CMM for remote system management with software
| **SBE-820/J/JB only**: Up to 2 hot-pluggable CMMs for remote system management with software |
| Available Models | • **SBE-820C/J/L-822**: Enclosure with 8 hot-pluggable 2200W Titanium (96% efficiency) power supplies
| • **SBE-820C/J/L-622S**: Enclosure with 6 hot-pluggable 2200W Platinum (94% efficiency) power supplies (long-life) + 2 cooling fans (long-life)
| • **SBE-820C/J/L-622**: Enclosure with 6 hot-pluggable 2200W Titanium (96% efficiency) power supplies + 2 cooling fans
| • **SBE-820C/J-422**: Enclosure with 4 hot-pluggable 2200W Titanium (96% efficiency) power supplies + 4 cooling fans
| • **SBE-820C/J-420D**: 4 hot-pluggable 2000W DC power supplies + 4 cooling fans
| • **SBE-820CB/JB-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” |
### Single Intel® Xeon® E-2100/E-2200 Series Processor

- **Processor**: Single Intel® Xeon® E-2100/E-2200 Series
- **Chipset**: Intel® C246 series
- **Memory Support**: 4 DDR4-2933 DIMM slots
- **Max Memory**: 128GB
- **Expansion & Drive Bays**:
  - Support 1 PCI-E 3.0 x16 or 2 PCI-E 3.0 x8 slots
  - 1 M.2 NVMe/SATA slot
  - 1 SATA DOM
- **Storage RAID**: N/A
- **InfiniBand / Intel® OPA**: N/A
- **Ethernet Interface**: Dual 10G Ethernet
- **Management**:
  - IPMI 2.0
  - KVM over IP
  - Virtual Media over LAN
  - Supermicro RSD
- **LED Indicators**:
  - Fault LED
  - Network Activity LED
  - Power LED
  - UID / KVM LED
- **Dimensions (H x W x D)**: 1.75” x 6.5” x 23.5”
- **Chassis**: 8U: SBE-820C/J/L-422, SBE-820C/J/L-622, SBE-820CB/JB-422

### Dual 2nd Gen Intel® Xeon® Scalable Processors

- **Processor**: Dual 2nd Generation Intel® Xeon® Scalable Processors (Cascade Lake-SP)
- **Chipset**: Intel® C620 series
- **Memory Support**: 16 DDR4-2933 DIMM slots
- **Max Memory**: 2TB
- **Expansion & Drive Bays**:
  - 2 hot-plug 2.5” NVMe and 1 SATA3 drive bays or 3 SATA3 drive bays
  - 1 M.2 NVMe/SATA slot
  - 1 M.2 NVMe via mezzanine card
  - 4 M.2 NVMe via mezzanine card
- **Storage RAID**: Intel® PCH SATA3 RAID 0,1,5, Broadcom® 3108 RAID 0,1
- **InfiniBand / Intel® OPA**: 100G EDR InfiniBand / Intel® Omni-Path (Mezzanine card)
- **Ethernet Interface**: Dual 10G Ethernet
- **Management**:
  - IPMI 2.0
  - KVM over IP
  - Virtual Media over LAN
  - Supermicro RSD
- **LED Indicators**:
  - Fault LED
  - Network Activity LED
  - Power LED
  - UID / KVM LED
- **Dimensions (H x W x D)**: 1.75” x 6.5” x 23.5”
- **Chassis**: 8U: SBE-820C/J/L-422, SBE-820C/J/L-622, SBE-820CB/JB-422

### GPU Optimized Options

- **Model**: SBI-4119MG-X, SBI-4129P-T3N/C2N
- **Options**:
  - Optional 25GbE or 100G EDR/OPA
  - Optional Mezzanine card
  - Up to 3 hot-plug drive bays

---

**NEW!**

GPU Optimized 8U SuperBlade®/MicroBlade™ Server Solutions
# 8U SuperBlade® Server Technical Specifications

## Quad 2nd Gen Intel® Xeon® Scalable Processors

### Hot-plug NVMe/SAS3/SATA3 Storage and Optional 25GbE or 100G EDR/OPA Networking

---

### Optional Mezzanine card

<table>
<thead>
<tr>
<th>Model</th>
<th>SBI-8149P-C4N</th>
<th>SBI-8149P-T8N</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Server Nodes/8U</strong></td>
<td>10</td>
<td>10</td>
</tr>
<tr>
<td><strong>Processor</strong></td>
<td>Quad 2nd Generation Intel® Xeon® Scalable processors (Cascade Lake-SP)</td>
<td>Quad 2nd Generation Intel® Xeon® Scalable processors (Cascade Lake-SP)</td>
</tr>
<tr>
<td><strong>Chipset</strong></td>
<td>Intel® C620 series</td>
<td>Intel® C620 series</td>
</tr>
<tr>
<td><strong>Memory Support</strong></td>
<td>48 DDR4-2933 DIMM slots</td>
<td>48 DDR4-2933 DIMM slots</td>
</tr>
<tr>
<td><strong>Max Memory</strong></td>
<td>6TB</td>
<td>6TB</td>
</tr>
<tr>
<td><strong>Expansion &amp; Drive Bays</strong></td>
<td>• 4 hot-plug 2.5&quot; NVMe/SAS3/SATA3 drive bays</td>
<td>• 8 hot-plug 2.5&quot; NVMe drive bays or 4 NVMe and 4 SATA3 drive bays</td>
</tr>
<tr>
<td><strong>Storage RAID</strong></td>
<td>Broadcom® 3108 RAID 0,1,5,10</td>
<td>Intel® PCH SATA3 RAID 0,1,5,10</td>
</tr>
<tr>
<td><strong>InfiniBand / Intel® OPA</strong></td>
<td>100G EDR InfiniBand / Intel® Omni-Path (Mezzanine card)</td>
<td>100G EDR InfiniBand / Intel® Omni-Path (Mezzanine card)</td>
</tr>
<tr>
<td><strong>Ethernet Interface</strong></td>
<td>• Dual 10G Ethernet</td>
<td>• Dual-port 10G</td>
</tr>
<tr>
<td><strong>Management</strong></td>
<td>• IPMI 2.0</td>
<td>• IPMI 2.0</td>
</tr>
<tr>
<td><strong>LED Indicators</strong></td>
<td>• Fault LED</td>
<td>• Fault LED</td>
</tr>
<tr>
<td><strong>Dimensions (H x W x D)</strong></td>
<td>1.75&quot; x 13&quot; x 23.5&quot;</td>
<td>1.75&quot; x 13&quot; x 23.5&quot;</td>
</tr>
<tr>
<td><strong>Chassis</strong></td>
<td>8U: • SBE-820C/J/L-622</td>
<td>8U: • SBE-820C/J/L-622</td>
</tr>
</tbody>
</table>

Specifications and images of upcoming products are subject to change without notice.
4U SuperBlade® Server

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 lower. Since airflow is significantly improved, the load on the cooling fans is reduced resulting in a 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

<table>
<thead>
<tr>
<th>4U Enclosure</th>
<th>SBE-414E</th>
</tr>
</thead>
<tbody>
<tr>
<td>Processor Blade</td>
<td>Up to 14 hot-pluggable 2-socket blade servers</td>
</tr>
<tr>
<td>LED</td>
<td>Power LED, Fault LED</td>
</tr>
<tr>
<td>Ethernet Switch</td>
<td>Up to 2 hot-pluggable 10G/1G switches</td>
</tr>
<tr>
<td>Management Module</td>
<td>Single CMM for remote system management with software</td>
</tr>
<tr>
<td>Available Models</td>
<td></td>
</tr>
<tr>
<td>• SBE-414E-422: Enclosure with 4 hot-pluggable 2200W Titanium (96%+) efficiency power supplies</td>
<td></td>
</tr>
<tr>
<td>• SBE-414E-222: Enclosure with 2 hot-pluggable 2200W Titanium (96%+) efficiency power supplies</td>
<td></td>
</tr>
<tr>
<td>• SBE-414E-420D: Enclosure with 4 hot-pluggable 2000 DC power supplies</td>
<td></td>
</tr>
<tr>
<td>• SBE-414E-422S: Enclosure with 4 hot-pluggable 2200 Platinum (94% efficiency) long-life power supplies</td>
<td></td>
</tr>
<tr>
<td>• SBE-414EB-222: Enclosure with 2 hot-pluggable 2200W Titanium (96% efficiency) power supplies + 2 hot-pluggable 1200W BBP® modules</td>
<td></td>
</tr>
<tr>
<td>Rack Unit</td>
<td>4U</td>
</tr>
<tr>
<td>Dimensions (H x W x D)</td>
<td>7” x 17.6” x 32”</td>
</tr>
</tbody>
</table>

Actual product may look different depending on blade server, networking and power supply options.
# 4U SuperBlade® Server Technical Specifications

## Dual 2nd Gen Intel® Xeon® Scalable Processors

<table>
<thead>
<tr>
<th>Hot-plug U.2 and M.2 NVMe/SATA3</th>
</tr>
</thead>
</table>

### Model SBI-4429P-T2N

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Server Nodes/4U</strong></td>
<td>14</td>
</tr>
<tr>
<td><strong>Processor</strong></td>
<td>Dual 2nd Generation Intel® Xeon® Scalable processors (Cascade Lake-SP)</td>
</tr>
<tr>
<td><strong>Chipset</strong></td>
<td>Intel® C620 series</td>
</tr>
<tr>
<td><strong>Memory Support</strong></td>
<td>12 DDR4-2933 VLP DIMM slots</td>
</tr>
<tr>
<td><strong>Max Memory</strong></td>
<td>384GB</td>
</tr>
<tr>
<td><strong>Expansion &amp; Drive Bays</strong></td>
<td>• 2 hot-plug 2.5&quot; NVMe/SATA3 drive bays</td>
</tr>
<tr>
<td></td>
<td>• 1 M.2 NVMe/SATA slots</td>
</tr>
<tr>
<td><strong>Storage RAID</strong></td>
<td>Intel® PCH SATA3 RAID 0,1</td>
</tr>
<tr>
<td><strong>InfiniBand / Intel® OPA</strong></td>
<td>N/A</td>
</tr>
<tr>
<td><strong>Ethernet Interface</strong></td>
<td>• Dual 10G Ethernet</td>
</tr>
<tr>
<td><strong>Management</strong></td>
<td>• IPMI 2.0</td>
</tr>
<tr>
<td></td>
<td>• KVM over IP</td>
</tr>
<tr>
<td></td>
<td>• Virtual Media over LAN</td>
</tr>
<tr>
<td></td>
<td>• Supermicro RSD</td>
</tr>
<tr>
<td><strong>LED Indicators</strong></td>
<td>• Fault LED</td>
</tr>
<tr>
<td></td>
<td>• Network Activity LED</td>
</tr>
<tr>
<td></td>
<td>• Power LED</td>
</tr>
<tr>
<td></td>
<td>• UID / KVM LED</td>
</tr>
<tr>
<td><strong>Dimensions (H x W x D)</strong></td>
<td>1.2&quot; x 6.5&quot; x 23.5&quot;</td>
</tr>
<tr>
<td><strong>Chassis</strong></td>
<td>4U:</td>
</tr>
<tr>
<td></td>
<td>• SBE-414E-222</td>
</tr>
<tr>
<td></td>
<td>• SBE-414E-422</td>
</tr>
<tr>
<td></td>
<td>• SBE-414EB-222</td>
</tr>
</tbody>
</table>
6U SuperBlade®

Innovative Disaggregated Resource Saving Server Architecture for Optimal TCO

### Up to 10 Blade Servers in 6U

<table>
<thead>
<tr>
<th>Intel® Xeon® W-2200</th>
<th>2nd Gen Intel® Xeon® Scalable Processors</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Socket 8 DIMM slots</td>
<td>1-Socket 12 DIMM slots 2-Socket 24 DIMM slots, 25GbE</td>
</tr>
</tbody>
</table>

- SBI-6119R-C3N/T3N
- SBI-6119P-C3N/T3N
- SBI-6129P-C3N/T3N

The new 6U SuperBlade® design builds on a disaggregated server architecture that enables the independent upgrade of compute modules without replacing the rest of the enclosure including networking, storage, fans and power supplies. With up to 14 blade servers in a 6U enclosure, the blade servers support 2nd Gen Intel® Xeon® Scalable processors with 24 DIMM slots (2-socket blade) and 12 DIMM slots (1-socket blade), up to 3 drive bays, and dual 25G/10G Ethernet networking.

### Up to 14 Blade Servers in 6U

<table>
<thead>
<tr>
<th>2nd Gen Intel® Xeon® Scalable Processors</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-Socket 12 DIMM slots, 10GbE</td>
</tr>
<tr>
<td>2-Socket 24 DIMM slots, 10GbE</td>
</tr>
</tbody>
</table>

- SBI-6419P-C3N/T3N
- SBI-6429P-C3N/T3N

6U SuperBlade with 10 Blade Servers

6U SuperBlade with 14 Blade Servers

Actual product may look different based on server blade, networking and power supply options.
### 6U SuperBlade® Enclosure Supporting 10 Blade Servers

#### 6U Enclosure

| Processor Blade | Up to 10 hot-pluggable 1-socket or 2-socket blade servers |
| LED | Power LED, Fault LED |
| Ethernet Switch | **SBI-6129P** |
| | • Up to 2 hot-pluggable 25G Ethernet switches (with add-on card) and 2 hot-pluggable 10G Ethernet switches |
| | • Up to 4 hot-pluggable 10G Ethernet switches |
| Management | Up to 2 CMM for remote system management with software |
| Available Models | • **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-610J-622S**: Enclosure with 6 hot-pluggable 2200W Platinum (94% efficiency) power supplies (long-life) + 2 cooling fans (long-life) |
| | • **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

| 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 | • **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” |

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Disaggregated Resource Saving Server Design

Enables a high degree of customization for application optimized deployments. The independent upgrade of CPU, memory and storage promotes a higher Return on Investment (ROI).

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**SuperBlade®/MicroBlade™ Server Solutions**
### 6U SuperBlade® Server Technical Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>SBI-6119R-C3N/T3N</th>
<th>SBI-6119P-C3N/T3N</th>
<th>SBI-61419P-C3N/T3N</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Server Nodes/6U</strong></td>
<td>10</td>
<td>10</td>
<td>14</td>
</tr>
<tr>
<td><strong>Processor</strong></td>
<td>Single Intel® Xeon® W-2200 Series processor</td>
<td>2nd Generation Intel® Xeon® Scalable processors (Cascade Lake-SP)</td>
<td>2nd Generation Intel® Xeon® Scalable processors (Cascade Lake-SP)</td>
</tr>
<tr>
<td><strong>Chipset</strong></td>
<td>Intel® C422</td>
<td>Intel® C620 series</td>
<td>Intel® C620 series</td>
</tr>
<tr>
<td><strong>Memory Support</strong></td>
<td>8 DDR4-2933 DIMM slots</td>
<td>12 DDR4-2933 DIMM slots</td>
<td>12 DDR4-2933 VLP DIMM slots</td>
</tr>
<tr>
<td><strong>Max Memory</strong></td>
<td>256GB</td>
<td>1.5TB</td>
<td>384GB</td>
</tr>
<tr>
<td><strong>Expansion &amp; Drive Bays</strong></td>
<td>- <strong>C3N:</strong> 2 hot-plug 2.5&quot; NVMe and 1 SAS3/SATA3 drive bays or 3 SAS3/SATA3 drive bays</td>
<td>- <strong>T3N:</strong> 3 hot-plug 2.5&quot; NVMe/SATA3 drive bays</td>
<td></td>
</tr>
<tr>
<td><strong>Storage RAID</strong></td>
<td>- <strong>C3N:</strong> Broadcom® 3108 RAID 0,1,5</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td><strong>InfiniBand / Intel® OPA</strong></td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td><strong>Ethernet Interface</strong></td>
<td>- Dual 10G Ethernet</td>
<td>- Dual 10G Ethernet</td>
<td>- Dual 10G Ethernet</td>
</tr>
<tr>
<td><strong>Management</strong></td>
<td>- IPMI 2.0</td>
<td>- IPMI 2.0</td>
<td>- IPMI 2.0</td>
</tr>
<tr>
<td><strong>LED Indicators</strong></td>
<td>- Fault LED</td>
<td>- Fault LED</td>
<td>- Fault LED</td>
</tr>
<tr>
<td><strong>Dimensions (H x W x D)</strong></td>
<td>1.75” x 9.75” x 23.5”</td>
<td>1.75” x 9.75” x 23.5”</td>
<td>1.2” x 9.75” x 23.5”</td>
</tr>
</tbody>
</table>
# 6U SuperBlade® Server Technical Specifications

## Dual 2nd Gen Intel® Xeon® Scalable Processors

<table>
<thead>
<tr>
<th>Feature</th>
<th>SBI-6129P-C3N/T3N</th>
<th>SBI-6429P-C3N/T3N</th>
</tr>
</thead>
<tbody>
<tr>
<td>Compute Module</td>
<td>![Image of Compute Module]</td>
<td>![Image of Compute Module]</td>
</tr>
<tr>
<td>2nd Gen Intel® Xeon® Scalable</td>
<td>![Image of 2nd Gen Intel® Xeon® Scalable]</td>
<td>![Image of 2nd Gen Intel® Xeon® Scalable]</td>
</tr>
<tr>
<td>Storage Module</td>
<td>![Image of Storage Module]</td>
<td>![Image of Storage Module]</td>
</tr>
<tr>
<td>Up to 3 hot-plug drive bays</td>
<td>![Image of Up to 3 hot-plug drive bays]</td>
<td>![Image of Up to 3 hot-plug drive bays]</td>
</tr>
<tr>
<td>Mezzanine card options (only available on SBI-6129P)</td>
<td>![Image of Mezzanine card options]</td>
<td>![Image of Mezzanine card options]</td>
</tr>
</tbody>
</table>

### Model Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>SBI-6129P-C3N/T3N</th>
<th>SBI-6429P-C3N/T3N</th>
</tr>
</thead>
<tbody>
<tr>
<td>Server Nodes/6U</td>
<td>10</td>
<td>14</td>
</tr>
<tr>
<td>Processor</td>
<td>2nd Generation Intel® Xeon® Scalable processors (Cascade Lake-SP)</td>
<td>2nd Generation Intel® Xeon® Scalable processors (Cascade Lake-SP)</td>
</tr>
<tr>
<td>Chipset</td>
<td>Intel® C620 series</td>
<td>Intel® C620 series</td>
</tr>
<tr>
<td>Memory Support</td>
<td>24 DDR4-2933 DIMM slots</td>
<td>24 DDR4-2933 VLP DIMM slots</td>
</tr>
<tr>
<td>Max Memory</td>
<td>3TB</td>
<td>768GB</td>
</tr>
<tr>
<td>Expansion &amp; Drive Bays</td>
<td>![Image of Expansion &amp; Drive Bays]</td>
<td>![Image of Expansion &amp; Drive Bays]</td>
</tr>
<tr>
<td>Storage RAID</td>
<td>Broadcom® 3108 RAID 0,1,5</td>
<td>Intel® PCH SATA3 RAID 0,1,5</td>
</tr>
<tr>
<td>InfiniBand / Intel® OPA</td>
<td>![Image of InfiniBand / Intel® OPA]</td>
<td>![Image of InfiniBand / Intel® OPA]</td>
</tr>
<tr>
<td>Ethernet Interface</td>
<td>![Image of Ethernet Interface]</td>
<td>![Image of Ethernet Interface]</td>
</tr>
<tr>
<td>Management</td>
<td>IPMI 2.0, KVM over IP, Virtual Media over LAN, Supermicro RSD</td>
<td>IPMI 2.0, KVM over IP, Virtual Media over LAN, Supermicro RSD</td>
</tr>
<tr>
<td>LED Indicators</td>
<td>Fault LED, Network Activity LED, Power LED, UID / KVM LED</td>
<td>Fault LED, Network Activity LED, Power LED, UID / KVM LED</td>
</tr>
<tr>
<td>Dimensions (H x W x D)</td>
<td>1.75&quot; x 9.75&quot; x 23.5&quot;</td>
<td>1.2&quot; x 9.75&quot; x 23.5&quot;</td>
</tr>
<tr>
<td>Chassis</td>
<td>![Image of Chassis]</td>
<td>![Image of Chassis]</td>
</tr>
</tbody>
</table>

### Mezzanine Card Options

- **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

- **C3N**
  - Broadcom® 3108 RAID 0,1,5
- **T3N**
  - Intel® PCH SATA3 RAID 0,1,5

### Ethernet Interface

- **C3N**
  - Dual 10G Ethernet
- **T3N**
  - Dual 25G Ethernet (Mezzanine card)

- **C3N**
  - Dual 25G Ethernet
- **T3N**
  - Dual 10G Ethernet
MicroBlade™

- Best density and power efficiency with up to 56x 1-socket or 28x 2-socket nodes
- U.2/M.2 NVMe SSD and HW SAS3 RAID support
- Ethernet switches supporting 1G, 2.5G and 10G downlinks
- Redundant 2200W Titanium Level (96%+ efficiency) AC power supplies
  - Battery Backup Power (BBP) modules

MicroBlade™ Servers

Intel® Xeon® Processor E5-2600 v4/v3
- 2S with 4x 1G
- 2S with 2x 10G

MBI-6128R-T2 MBI-6128R-T2X

Intel® Xeon® Processor E-2100/E-2200
- 1S with 2 NVMe
- 1S with 2 SAS3

NEW! NEW!

NEW! NEW!

MBI-6119M-T2N MBI-6119M-C2

Intel® Xeon® processor D-2100
- 2x 1S (8-core)
- 2x 1S (12-core)
- 2x 1S (16-core)

NEW! NEW! NEW!

NEW! NEW! NEW!

MBI-6219B-T41N MBI-6219B-T63N MBI-6219B-T83N

Intel® Xeon® Processor E3-1200 v6/v5
- 1S with 2 SAS3
- 1S with 4 SAS3
- 1S with 4 SATA3
- 2x 1S with 2 SATA3

MBI-6119G-C2 MBI-6119G-C4 MBI-6119G-T4 MBI-6219G-T

Intel® Xeon® processor D-1500
- 2x 1S with 2x 10G
- 1S with 2x 10G

MBI-6218G MBI-6118G
# SuperBlade®/MicroBlade™ Server Solutions

## MicroBlade™ Enclosures

### Ultra High Density and Performance/Watt in 6U/3U
- 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

<table>
<thead>
<tr>
<th>Model</th>
<th>MBE-314E-422/420(D)/416/222/220(D)</th>
<th>MBE-628E-820(D)/816/420(D)/416</th>
<th>MBE-628E/EB-822/622/422</th>
</tr>
</thead>
<tbody>
<tr>
<td>Processor Blade</td>
<td>Up to 14 hot-pluggable blade servers</td>
<td>Up to 28 hot-pluggable blade servers</td>
<td>Up to 28 hot-pluggable blade servers</td>
</tr>
<tr>
<td>Node Support</td>
<td>Intel® Xeon® processor based blades</td>
<td>Intel® Xeon® processor based blades</td>
<td>Intel® Xeon® processor based blades</td>
</tr>
<tr>
<td>Networking</td>
<td>Up to 2 hot-pluggable 1G/1G Ethernet switches</td>
<td>Up to 2 hot-pluggable 1G/1G Ethernet switches</td>
<td>Up to 2 hot-pluggable 1G/1G Ethernet switches</td>
</tr>
<tr>
<td>Management</td>
<td>Single hot-pluggable management module providing remote KVM and IPMI 2.0 functionalities</td>
<td>Up to 2 hot-pluggable management modules providing remote KVM and IPMI 2.0 functionalities</td>
<td>Up to 2 hot-pluggable management modules providing remote KVM and IPMI 2.0 functionalities</td>
</tr>
</tbody>
</table>
| Power Supply   | - **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  
- **222**: 2 hot-pluggable 2200W  
- **222**: 4 hot-pluggable 2200W  
- **222**: 2 hot-pluggable 2200W | - **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  
- **622**: 6 hot-pluggable 2200W (long-life) + 2 cooling fans (long-life)  
- **622/622/422**: 6/6/4 hot-pluggable 2200W  
- **628EB-422**: 4 hot-pluggable 2200W + 4 hot-pluggable 1200W BBP® modules | - **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  
- **622**: 6 hot-pluggable 2200W (long-life) + 2 cooling fans (long-life)  
- **622/622/422**: 6/6/4 hot-pluggable 2200W  
- **628EB-422**: 4 hot-pluggable 2200W + 4 hot-pluggable 1200W BBP® modules |
| Cooling Design | 4 cooling fans | 8 cooling fans | 8 cooling fans |
| LED            | Power LED, Fault LED | Power LED, Fault LED | Power LED, Fault LED |
| Rack Unit      | 3U | 6U | 6U |
| Dimensions (H x W x D) | 5.21” (132.5mm) x 17.67” (449mm) x 36.10” (917mm) | 10.43” (265mm) x 17.67” (449mm) x 36.10” (917mm) | 10.43” (265mm) x 17.67” (449mm) x 36.10” (917mm) |
**MicroBlade™ X11 Server Technical Specifications**

*Intel® Xeon® Processor D-2100 Series Processor Supported*

**NEW! Dual-node 1S with Dual 10G Ethernet**

Model | MBI-6219B-T41N/T63N/T83N
---|---
Server Nodes/42U Rack | 392
Processor | - **T41N**: Intel® Xeon® Processor D-2141I, 8 cores, 65W per node  
- **T63N**: Intel® Xeon® Processor D-2163IT, 12 cores, 75W per node  
- **T83N**: Intel® Xeon® Processor D-2183IT, 16 cores, 100W per node
Chipset | System-on-Chip
Memory Support | 4 DDR4-2133/2400 VLP DIMM slots per node
Max Memory | 128 GB per node
Expansion & Drive Bays | - 1x 2.5" NVMe/SATA3 internal drive bay per node  
- 1x M.2 NVMe slot per node (up to 110mm)  
- 1x SuperDOM port per node
Storage RAID | N/A
Ethernet Interface | Dual 10G Ethernet per node
Management | - IPMI 2.0  
- KVM over IP  
- Virtual Media over LAN
LED Indicators | - 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)
Chassis | 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)  
- MBE-314E-422/222
## MicroBlade™ X11 Server Technical Specifications

Intel® Xeon® Processor E-2100/E-2200 Series Processor Supported

### New! Single-node 1S with 2 NVMe

- Intel® Xeon® Processor E-2100/E-2200 Series processor
- 4 DIMM slots DDR4
- 2x 2.5” NVMe/SATA3 Drives

### New! Single-node 1S with 2 SAS3

- Intel® Xeon® Processor E-2100/E-2200 Series processor
- 4 DIMM slots DDR4
- 2x 2.5” SAS3 Drives

### Model Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>MBI-6119M-T2N</th>
<th>MBI-6119M-C2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Server Nodes/42U Rack</td>
<td>196</td>
<td></td>
</tr>
<tr>
<td>Processor</td>
<td>Intel® Xeon® Processor E-2100/E-2200 Series</td>
<td>Intel® Xeon® Processor E-2100/E-2200 Series</td>
</tr>
<tr>
<td>Chipset</td>
<td>Intel® C246</td>
<td></td>
</tr>
<tr>
<td>Memory Support</td>
<td>4 DDR4-2666 VLP UDIMM slots</td>
<td></td>
</tr>
<tr>
<td>Max Memory</td>
<td>128GB</td>
<td></td>
</tr>
<tr>
<td>Expansion &amp; Drive Bays</td>
<td>• 2x 2.5” NVMe/SATA3 drives</td>
<td>• 2x 2.5” 12Gb/s SAS3 drives</td>
</tr>
<tr>
<td></td>
<td>• 1x Super DOM</td>
<td>• 1x Super DOM</td>
</tr>
<tr>
<td></td>
<td>• M.2 Interface: 1 PCI-E 3.0x4 / 1 SATA3</td>
<td>• M.2 Interface: 1 PCI-E 3.0x4 / 1 SATA3</td>
</tr>
<tr>
<td></td>
<td>• M.2 Form Factor: 2280, 2210</td>
<td>• M.2 Form Factor: 2280, 2210</td>
</tr>
<tr>
<td></td>
<td>• M.2 Key: M-Key</td>
<td>• M.2 Key: M-Key</td>
</tr>
<tr>
<td>Storage RAID</td>
<td>Intel® PCH SATA3 RAID 0,1</td>
<td>Broadcom® 3008 SAS3/SATA3 RAID 0,1</td>
</tr>
<tr>
<td>Ethernet Interface</td>
<td>Dual 1G Ethernet</td>
<td></td>
</tr>
<tr>
<td>Management</td>
<td>IPMI 2.0, KVM over IP, Virtual Media over LAN</td>
<td></td>
</tr>
<tr>
<td>LED Indicators</td>
<td>• Power LED</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Fault LED</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Network Activity LED</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• UID / KVM LED</td>
<td></td>
</tr>
<tr>
<td>Dimensions (H x W x D)</td>
<td>1.2” (30.48mm) x 4.94” (125.48mm) x 23.2” (589.28mm)</td>
<td></td>
</tr>
</tbody>
</table>
## MicroBlade™ X10 Server Technical Specifications

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

### Dual-node 1S with Dual 10G Ethernet

- **Node 1**
  - 1 Intel® Xeon® processor D per node
  - 4 DIMM slots DDR4 per node
  - 1x 2.5” SATA3 Drives per node

- **Node 2**
  - 1 Intel® Xeon® processor D per node
  - 4 DIMM slots DDR4 per node
  - 1x 2.5” SATA3 Drives per node

### Single-node 1S with Dual 10G Ethernet

- **Model**
  - MBI-6218G-T81X/T41X
  - MBI-6118G-T81X/T41X

<table>
<thead>
<tr>
<th>Model</th>
<th>MBI-6218G-T81X/T41X</th>
<th>MBI-6118G-T81X/T41X</th>
</tr>
</thead>
<tbody>
<tr>
<td>Server Nodes/42U Rack</td>
<td>392</td>
<td>196</td>
</tr>
<tr>
<td>Processor</td>
<td>- <strong>T81X</strong>: Intel® Xeon® processor D-1581 per node, 16 cores, 65W</td>
<td>- <strong>T41X</strong>: Intel® Xeon® processor D-1541 per node, 8 cores, 45W</td>
</tr>
<tr>
<td>Chipset</td>
<td>System-on-Chip</td>
<td>System-on-Chip</td>
</tr>
<tr>
<td>Memory Support</td>
<td>4 DDR4-2400 VLP DIMM slots per node</td>
<td>4 DDR4-2400 VLP DIMM slots</td>
</tr>
<tr>
<td>Max Memory</td>
<td>128GB per node</td>
<td>128GB</td>
</tr>
<tr>
<td>Expansion &amp; Drive Bays</td>
<td>- 1x 2.5” SATA3 Drives per node</td>
<td>- 4x 2.5” SATA3 SSD or 2x Drives + 2x SSD</td>
</tr>
<tr>
<td></td>
<td>- 1x SuperDOM Port per node</td>
<td>- 1x SuperDOM Port</td>
</tr>
<tr>
<td>Storage RAID</td>
<td>N/A</td>
<td>Intel® SATA3 RAID 0,1,5,10</td>
</tr>
<tr>
<td>Ethernet Interface</td>
<td>Dual 10G Ethernet per node</td>
<td>Dual 10G Ethernet</td>
</tr>
<tr>
<td>Management</td>
<td>- IPMI 2.0</td>
<td>- IPMI 2.0</td>
</tr>
<tr>
<td></td>
<td>- KVM over IP</td>
<td>- KVM over IP</td>
</tr>
<tr>
<td></td>
<td>- Virtual Media over LAN</td>
<td>- Virtual Media over LAN</td>
</tr>
<tr>
<td>LED Indicators</td>
<td>- Fault LED</td>
<td>- Fault LED</td>
</tr>
<tr>
<td></td>
<td>- Network Activity LED</td>
<td>- Network Activity LED</td>
</tr>
<tr>
<td></td>
<td>- Power LED</td>
<td>- Power LED</td>
</tr>
<tr>
<td></td>
<td>- UID / KVM LED</td>
<td>- UID / KVM LED</td>
</tr>
<tr>
<td>Dimensions (H x W x D)</td>
<td>1.2” (30.48mm) x 4.94” (125.48mm) x 23.2” (589.28mm)</td>
<td>1.2” (30.48mm) x 4.94” (125.48mm) x 23.2” (589.28mm)</td>
</tr>
<tr>
<td>Chassis</td>
<td>6U:</td>
<td>6U:</td>
</tr>
<tr>
<td></td>
<td>- MBE-628E-416</td>
<td>- MBE-628E-420</td>
</tr>
<tr>
<td></td>
<td>- MBE-628E-816</td>
<td>- MBE-628E-820(D)</td>
</tr>
<tr>
<td></td>
<td>- MBE-628EB-422</td>
<td>- MBE-628EB-622</td>
</tr>
<tr>
<td></td>
<td>- MBE-628EB-822</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3U:</td>
<td>3U:</td>
</tr>
<tr>
<td></td>
<td>- MBE-314E-420(D)</td>
<td>- MBE-314E-420(D)</td>
</tr>
<tr>
<td></td>
<td>- MBE-314E-416</td>
<td>- MBE-314E-416</td>
</tr>
</tbody>
</table>

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**SuperBlade”/MicroBlade™ Server Solutions**
### MicroBlade™ X10 Server Technical Specifications

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

**Single-node 2S with Quad Gigabit Ethernet**

![](image1)

**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** | 2x 2.5" SATA3 Drives 1x SuperDOM Port | 2x 2.5" SATA3 Drives 1x SuperDOM Port
**Storage RAID** | Intel® PCH SATA3 RAID 0,1 | Intel® PCH SATA3 RAID 0,1
**Ethernet Interface** | Quad Gigabit Ethernet | Dual 10 Gigabit Ethernet
**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)

---

**Single-node 2S with Dual 10G Ethernet**

![](image2)
**MicroBlade™ X11 Server Technical Specifications**

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

### Single-node 1S with 2 SAS3
- Model: MBI-6119G-C2
- Processor: Intel® Xeon® processor E3-1200 v6/v5
- Chipset: Intel® C236
- Memory Support: 4 DDR4-2400 VLP DIMM slots
- Max Memory: 64GB
- Expansion & Drive Bays:
  - 2x 2.5" SAS3 Drives
  - 2x SuperDOM Port
- Storage RAID: Broadcom® 3008 SAS3/ SATA3 RAID 0,1
- Ethernet Interface: Dual 1G Ethernet
- LED Indicators:
  - Power 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)

### Single-node 1S with 4 SAS3
- Model: MBI-6119G-C4
- Processor: Intel® Xeon® processor E3-1200 v6/v5
- Chipset: Intel® C236
- Memory Support: 4 DDR4-2400 VLP DIMM slots
- Max Memory: 64GB
- Expansion & Drive Bays:
  - 2x 2.5" SAS3 Drives
  - 2x SuperDOM Port
- Storage RAID: Broadcom® 3008 SAS3/ SATA3 RAID 0,1
- Ethernet Interface: Dual 1G Ethernet
- LED Indicators:
  - Power 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)

### Single-node 1S with 4 SATA3
- Model: MBI-6119G-T4
- Processor: Intel® Xeon® processor E3-1200 v6/v5
- Chipset: Intel® C236
- Memory Support: 4 DDR4-2400 VLP DIMM slots
- Max Memory: 64GB
- Expansion & Drive Bays:
  - 2x 2.5" SATA3 SSD or 2x SATA3 HDD
  - 2x SuperDOM Port
- Storage RAID: Intel® PCH SATA3 RAID 0,1,5,10
- Ethernet Interface: Dual 1G Ethernet
- LED Indicators:
  - 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)

### Dual-node 1S with 2 SATA3
- Model: MBI-6219G-T
- Processor: Intel® Xeon® processor E3-1200 v6/v5
- Chipset: Intel® C236
- Memory Support: 4 DDR4-2400 VLP DIMM slots
- Max Memory: 64GB
- Expansion & Drive Bays:
  - 2x 2.5" SATA3 SSD or 2x 2.5" SATA3 HDD
  - 2x SuperDOM Port
- Storage RAID: Intel® PCH SATA3 RAID 0,1
- Ethernet Interface: Dual 1G Ethernet
- LED Indicators:
  - 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)
100G Switches

100G EDR InfiniBand Switch

- 16x 100G Uplinks

100G Intel® Omni-Path Switch

- 24x 100G Uplinks

Model | SBM-IBS-E3616 | SBM-OPA-C4020
--- | --- | ---
General Specifications | - 20x 100G EDR InfiniBand downlinks
- 16x 100G EDR InfiniBand uplinks | - 20x 100G Intel® Omni-Path downlinks
- 24x 100G Intel® Omni-Path uplinks
- 1x USB port |
Switching Capacity | 7.62Tbps | 9.6Tbps |
Physical Layer Features | 100G optical/copper QSFP28 | 100G optical/copper QSFP28 |
System Management | Unmanaged mode | Unmanaged mode |

25G Ethernet Switch

25G Ethernet Switch with MLAG

Model | SBM-25G-100
--- | ---
General Specifications | - 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
- 1x console port |
Switching Capacity | 1820Gbps |
Physical Layer Features | 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) |
Advanced Layer 2 Features | - Storm control
- Flow control
- Port mirroring
- Uplink Failure Detection (UFD)
- MLAG |
- RDMA over Converged Ethernet (RoCE)
- Data Center Bridging Extensions (DCBx)
- Per-Priority Flow Control (PFC) [802.1Qbb]
- Enhanced Transmission Selection (ETS) – (802.1Qaz) |
Security Features | - Switch access password protection
- RADIUS and TACACS+ Authentication

- Access Control Lists
- SSH, SSL Encryption
- Auto Command completion
- Blade Network Manager (BNM) |
System Management | - Industry Standard CLI
- Web-based management interface
- HTTP/HTTPS
- Syslog
- Content-sensitive “Help” |
Multicast | - IGMP Snooping

1G RJ45 Uplink

Console Port

4x 40G/100G QSFP28 Uplinks
1G Ethernet Switch

Model | MBM-GEM-004
---|---
General Specifications | 40x 1G Ethernet downlinks
| 8x 1G Ethernet RJ45 and 4x10G Uplinks
| 1x console port
Switching Capacity | 176Gbps
Physical Layer Features | 10G Ethernet Optical/copper SFP+
| 4x 25G or 4x 10G uplinks with optional fan-out cables
| 1 Gigabit Ethernet uplink
| 1x console port
Layer 2 Features | Multi-Chassis Link Aggregation (MLAG)
| IEEE 802.1Q VLANs
| IEEE 802.3ad with LACP
Layer 3 Features | N/A
Advanced Layer 2 Features | Storm control
| Port mirroring
| Flow control
| Uplink Failure Detection (UFD)
| MLAG
| QoS
System Management | Industry Standard CLI
| Web-based management interface – HTTP/HTTPS
| RMON
| DHCP (Client)
| SNMP v1/v2/v3
| Zero Touch Provisioning
Security Features | Switch access password protection
| RADIUS and TACACS+ Authentication
| Access Control Lists
Multicast | IGMP Snooping

10G Ethernet Switches

Model | MBM-XEM-100 | MBM-XEM-002 | MBM-XEM-002+
---|---|---|---
General Specifications | 36x 10G Ethernet downlinks
| 4x 10G/40G Ethernet uplinks, each can split into 4x 25G or 4x 10G uplinks with optional fan-out cables
| 1x Gigabit Ethernet uplink
| 1x console port
Switching Capacity | 1922Gbps
Physical Layer Features | 100G/40G optical/copper QSFP28
| 4x 10G SFP+ Uplinks
Layer 2 Features | Multi-Chassis Link Aggregation (MLAG)
| Storm control
| Flow control
| Port mirroring
| Uplink Failure Detection (UFD)
| MLAG
Advanced Layer 2 Features | RDMO over Converged Ethernet (RoCE)
| Data Center Bridging Extensions (DCBX)
| Per-Priority Flow Control (PFC) (802.1Qbb)
| Enhanced Transmission Selection (ETS) – (8021Qaz)
Security Features | Switch access password protection
| RADIUS and TACACS+ Authentication
| Access Control Lists
| SSH, SSL Encryption
System management | Auto Command completion
| NTTP
| Content-sensitive “Help”
| DHCP Snooping
Multicast | IGMP Snooping

---

SuperBlade/MicroBlade Server Solutions

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## SuperBlade®/MicroBlade™ Server Solutions

### Switch and Enclosure Compatibility Matrix

#### SuperBlade® and MicroBlade®

<table>
<thead>
<tr>
<th>Enclosures</th>
<th>SBM-IBS-E3616</th>
<th>SBM-OPA-C4020</th>
<th>SBM-25G-100</th>
<th>MBM-XEM-100</th>
<th>MBM-XEM-002+/MBM-XEM-002+</th>
<th>MBM-GEM-004</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>EDR InfiniBand</td>
<td>Intel® Omni-Path</td>
<td>25G</td>
<td>10G</td>
<td>10G</td>
<td>1G</td>
</tr>
<tr>
<td>8U</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SBE-820C(B)</td>
<td>• Up to 1</td>
<td>• Up to 1</td>
<td>• Up to 2 (10G)</td>
<td>• Up to 2</td>
<td>• Up to 2</td>
<td>• Up to 2</td>
</tr>
<tr>
<td>SBE-820J(B)</td>
<td>-</td>
<td>-</td>
<td>• Up to 2</td>
<td>• Up to 2</td>
<td>• Up to 4</td>
<td>• Up to 4</td>
</tr>
<tr>
<td>SBE-610J</td>
<td>-</td>
<td>-</td>
<td>• Up to 2</td>
<td>• Up to 2</td>
<td>• Up to 4</td>
<td>• Up to 4</td>
</tr>
<tr>
<td>SBE-614E(B)</td>
<td>-</td>
<td>-</td>
<td>• Up to 2 (10G)</td>
<td>• Up to 2</td>
<td>• Up to 2</td>
<td>• Up to 2</td>
</tr>
<tr>
<td>MBE-628E</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>• Up to 2</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>MBE-628EB</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>• Up to 2</td>
<td>• Up to 2*</td>
<td></td>
</tr>
<tr>
<td>MBE-628L</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>• Up to 4</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>6U</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SBE-414E(B)</td>
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<td>-</td>
<td>• Up to 2 (10G)</td>
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<td>• Up to 2</td>
<td>• Up to 2</td>
</tr>
<tr>
<td>MBE-314E</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>• Up to 2</td>
<td>• Up to 2</td>
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<tr>
<td>4U</td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
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<tr>
<td>3U</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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.

* Single node blade servers only.

### SuperBlade® Networking Mezzanine Card

#### Flexible Networking Options

The new generation of SuperBlades can be further customized to accommodate current and future needs. Networking mezzanine cards include options for 100G EDR InfiniBand, 100G Intel® Omni-Path, and Dual Port 25G Ethernet. These cards, paired with the appropriate switch, result in a blade server tuned for high-performance.

- **100G EDR InfiniBand**: AOC-IBH-X4ES (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)
# Cabling Options for Blade Switches

For more details and pricing information, visit [store.supermicro.com/cable/networking.html](store.supermicro.com/cable/networking.html)

## Ethernet

<table>
<thead>
<tr>
<th>Type</th>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SFP+ Cable</td>
<td>CBL-SFP+AOC-10M</td>
<td>ETHERNET,SFP+,10GbE,FIBER,ACTIVE,PULL,10M</td>
</tr>
<tr>
<td>SFP+ Cable</td>
<td>CBL-SFP+AOC-1M-1</td>
<td>ETHERNET,SFP+,10GbE,FIBER,ACTIVE,PULL,1M</td>
</tr>
<tr>
<td>SFP+ Cable</td>
<td>CBL-SFP+AOC-3M-1</td>
<td>ETHERNET,SFP+,10GbE,FIBER,ACTIVE,PULL,3M</td>
</tr>
<tr>
<td>SFP+ Cable</td>
<td>CBL-SFP+AOC-3M-1-ORG</td>
<td>ETHERNET,SFP+,10GbE,FIBER,ACTIVE,PULL,3M,Orange</td>
</tr>
<tr>
<td>SFP+ Cable</td>
<td>CBL-SFP+AOC-5M-1</td>
<td>ETHERNET,SFP+,10GbE,FIBER,ACTIVE,PULL,5M</td>
</tr>
<tr>
<td>SFP+ Cable</td>
<td>CBL-SFP+AOC-5M-1-ORG</td>
<td>ETHERNET,SFP+,10GbE,FIBER,ACTIVE,PULL,5M,Orange</td>
</tr>
<tr>
<td>SFP+ Cable</td>
<td>CBL-SFP+AOC-7M-1-ORG</td>
<td>ETHERNET,SFP+,10GbE,FIBER,ACTIVE,PULL,7M,Orange</td>
</tr>
<tr>
<td>QSFP Cable</td>
<td>CBL-NTWK-0417-01</td>
<td>ETHERNET, QSFP, 40GbE, PASSIVE, 1M</td>
</tr>
<tr>
<td>QSFP Cable</td>
<td>CBL-NTWK-0325-02</td>
<td>ETHERNET, QSFP, 40GbE, PASSIVE, 2M</td>
</tr>
<tr>
<td>QSFP Cable</td>
<td>CBL-NTWK-0446-01</td>
<td>ETHERNET, QSFP, 40GbE, PASSIVE, 3M</td>
</tr>
<tr>
<td>QSFP Cable</td>
<td>CBL-NTWK-0422-01</td>
<td>ETHERNET, QSFP, 40GbE, PASSIVE, 5M</td>
</tr>
<tr>
<td>QSFP Cable</td>
<td>CBL-NTWK-0446-01-1</td>
<td>ETHERNET, QSFP, 40GbE, FIBER, ACTIVE, PULL, 1M</td>
</tr>
<tr>
<td>QSFP Cable</td>
<td>CBL-NTWK-0450-01</td>
<td>ETHERNET, QSFP, 40GbE, FIBER, ACTIVE, PULL, 5M</td>
</tr>
<tr>
<td>QSFP Cable</td>
<td>CBL-NTWK-0719</td>
<td>ETHERNET, 40GbE/QSFP+ to 4x 10GbE/SFP+, PASSIVE, 1M, Mellanox</td>
</tr>
<tr>
<td>QSFP Cable</td>
<td>CBL-NTWK-0720</td>
<td>ETHERNET, 40GbE/QSFP+ to 4x 10GbE/SFP+, PASSIVE, 3M, Mellanox</td>
</tr>
</tbody>
</table>

## InfiniBand

<table>
<thead>
<tr>
<th>Type</th>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InfiniBand</td>
<td>CBL-NTWK-0942-MQ28E10M</td>
<td>InfiniBand, EDR, QSFP28, 100GbE, PASSIVE, LSZH, 1M, Mellanox</td>
</tr>
<tr>
<td>InfiniBand</td>
<td>CBL-NTWK-0942-MQ28E15M</td>
<td>InfiniBand, EDR, QSFP28, 100GbE, PASSIVE, LSZH, 1.5M, Mellanox</td>
</tr>
<tr>
<td>InfiniBand</td>
<td>CBL-NTWK-0942-MQ28E20M</td>
<td>InfiniBand, EDR, QSFP28, 100GbE, PASSIVE, LSZH, 2M, Mellanox</td>
</tr>
<tr>
<td>InfiniBand</td>
<td>CBL-NTWK-0942-MQ28E30M</td>
<td>InfiniBand, EDR, QSFP28, 100GbE, PASSIVE, LSZH, 3M, Mellanox</td>
</tr>
</tbody>
</table>

## Intel® Omni-Path

<table>
<thead>
<tr>
<th>Type</th>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Omni-Path</td>
<td>CBL-NTWK-0892-OPC05</td>
<td>Intel Omni-Path Passive Copper Cable QSFP28, 0.5M</td>
</tr>
<tr>
<td>Omni-Path</td>
<td>CBL-NTWK-0892-OPC10</td>
<td>Intel Omni-Path Passive Copper Cable QSFP28, 1M</td>
</tr>
<tr>
<td>Omni-Path</td>
<td>CBL-NTWK-0892-OPC15</td>
<td>Intel Omni-Path Passive Copper Cable QSFP28, 1.5M</td>
</tr>
<tr>
<td>Omni-Path</td>
<td>CBL-NTWK-0892-OPC20</td>
<td>Intel Omni-Path Passive Copper Cable QSFP28, 2M</td>
</tr>
<tr>
<td>Omni-Path</td>
<td>CBL-NTWK-0892-OPC30</td>
<td>Intel Omni-Path Passive Copper Cable QSFP28, 3M</td>
</tr>
<tr>
<td>Omni-Path</td>
<td>CBL-NTWK-0892-OPF30L</td>
<td>Intel Omni-Path Active Fiber Cable QSFP28, 3M</td>
</tr>
<tr>
<td>Omni-Path</td>
<td>CBL-NTWK-0892-OPF50L</td>
<td>Intel Omni-Path Active Fiber Cable QSFP28, 5M</td>
</tr>
<tr>
<td>Omni-Path</td>
<td>CBL-NTWK-0892-OPF100L</td>
<td>Intel Omni-Path Active Fiber Cable QSFP28, 10M</td>
</tr>
<tr>
<td>Omni-Path</td>
<td>CBL-NTWK-0892-OPF150L</td>
<td>Intel Omni-Path Active Fiber Cable QSFP28, 15M</td>
</tr>
<tr>
<td>Omni-Path</td>
<td>CBL-NTWK-0892-OPF200L</td>
<td>Intel Omni-Path Active Fiber Cable QSFP28, 20M</td>
</tr>
<tr>
<td>Omni-Path</td>
<td>CBL-NTWK-0892-OPF300L</td>
<td>Intel Omni-Path Active Fiber Cable QSFP28, 30M</td>
</tr>
<tr>
<td>Omni-Path</td>
<td>CBL-NTWK-0892-OPF400L</td>
<td>Intel Omni-Path Active Fiber Cable QSFP28, 40M</td>
</tr>
<tr>
<td>Omni-Path</td>
<td>CBL-NTWK-0892-OPF500L</td>
<td>Intel Omni-Path Active Fiber Cable QSFP28, 50M</td>
</tr>
<tr>
<td>Omni-Path</td>
<td>CBL-NTWK-0892-OPF600L</td>
<td>Intel Omni-Path Active Fiber Cable QSFP28, 60M</td>
</tr>
</tbody>
</table>
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 network configuration within each SuperBlade 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 overhead and minimize network configuration errors within a MicroBlade or SuperBlade enclosure.

BNM offers a single-pane of glass to monitor and manage the network configurations across multiple SuperBlade and MicroBlade enclosures in a data center environment. It displays the network topology from each blade server’s perspective, and helps to manage and diagnose network configuration issues.

Volume provisioning of blade server networking can be achieved using templates. Users can define configuration parameters based on type of workload within an enclosure, and save as a configuration template. When new enclosures are added to the environment, the same configuration can be applied and repeated at scale. In addition, multiple configuration templates can be created that are each optimized for different types of workloads.

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

---

1 Refers to the new generation 8U/6U/4U SuperBlade solutions supporting 2nd Gen 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 network topology and configuration in a straightforward interface and minimize the networking expertise required by the user. Setting up a new network switch requires just a few clicks in the BNM UI.

**Scalability**
The BNM management agent is scalable to manage thousands of SuperBlade and MicroBlade enclosures from a single management interface. Users can deploy network configurations for groups of enclosures based on pre-defined templates, and be ready to move from testing to production in a short amount of time.

**Intelligence**
BNM learns the connections between blade servers, blade switches, and uplink ToR (or other switches) using LLDP and LACP messages. Based on the available connections, BNM can intelligently provision link aggregations automatically in the blade switches.

**Workflow**
BNM includes a template-based configuration capability and comes with several pre-defined configuration templates for different switch models and deployments. These templates can be deployed to multiple enclosures with a few clicks and can result in significant time savings. Modifying a deployed configuration template can automatically trigger the reprovisioning of all applicable blade switches.

**Analytics**
BNM gathers statistics and logs from the blade switches and presents them using powerful analytics and visualization tools. BNM is built with open source products including Elasticsearch, Logstash, and Kibana.

---

<table>
<thead>
<tr>
<th>BNM Support Matrix</th>
</tr>
</thead>
</table>

BNM is a software solution that can be deployed on any physical or virtual machine running Ubuntu Linux, and can be managed through a secure web interface. Minimum Requirements:

- **Physical/VM:** 3.5 GHz+ CPU, 8GB RAM and 40GB of storage
- **OS:** Ubuntu 16.04.03 LTS
Chassis Management Modules (CMM)

- Centralized remote management
  - Server Blades, Power Supplies, Cooling Fans, Switches
- Management tools
  - **IPMIView**: CLI, Web-based GUI
  - **CMM**: Enclosure Monitoring
  - **SSM**: Blade Enclosure and Rack
  - **Utilities**: SMCPM/TOOL 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

Power Supply Modules

- Supporting MicroBlade™ and New Generation SuperBlade™

<table>
<thead>
<tr>
<th>Model</th>
<th>PWS-2K21A-BR</th>
<th>PWS-2K01A-BR</th>
<th>PWS-2K02D-BR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>Redundant Module (N+1 or N+N)</td>
<td>Redundant Module (N+1 or N+N)</td>
<td>Redundant Module (N+1 or N+N)</td>
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<tr>
<td>12V_{out}</td>
<td>2A</td>
<td>4.2A</td>
<td>4.2A</td>
</tr>
<tr>
<td>PFC</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Peak Efficiency</td>
<td>Titanium Level (96%+ efficiency)</td>
<td>Titanium Level (96%+ efficiency)</td>
<td>92%+ efficiency</td>
</tr>
<tr>
<td>Operating Conditions</td>
<td>Temp: 0 to 50°C</td>
<td>Humidity: 5 to 95% RH</td>
<td>Temp: 0 to 50°C</td>
</tr>
</tbody>
</table>
Long-Life Power Supply and Fan Modules

Optimized for Resource Savings and Longevity

- Resource-saving Architecture for reduced TCO and TCE
- Conformal coating to protect from environment impact
- Rigorous component selection process for the highest quality
- MTBF of fans and power supplies are at least 2 million hours (at 30°C ambient temperature)
- Flexible warranty options: standard warranty 8, 8, 1 (labor, parts, advance parts replacement) or extended warranty 12, 12, 1 is available

<table>
<thead>
<tr>
<th>Model</th>
<th>PWS-2K22P-BR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>Redundant Module (N+1 or N+N)</td>
</tr>
<tr>
<td>+12V</td>
<td>- 183.33A (2200W)</td>
</tr>
<tr>
<td></td>
<td>- 174.17A (2090W)</td>
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<tr>
<td></td>
<td>- 165A (1980W)</td>
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<tr>
<td></td>
<td>- 150A (1800W)</td>
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<tr>
<td></td>
<td>- 100A (1200W)</td>
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<tr>
<td>MTBF</td>
<td>fans and power supplies are at least 2 million hours (at 30°C ambient temperature)</td>
</tr>
</tbody>
</table>

Battery Backup Power (BBP®) Modules

Supporting MicroBlade™ and New Generation SuperBlade®

Chassis Compatible with BBP®

<table>
<thead>
<tr>
<th>Model</th>
<th>Output Power</th>
<th>Capacity</th>
<th>8U</th>
<th>6U</th>
<th>4U</th>
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</thead>
<tbody>
<tr>
<td>PWS-1K20B-BR</td>
<td>1200W</td>
<td>68Whr</td>
<td>4</td>
<td>4</td>
<td>2</td>
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</table>

Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>PWS-1K20B-BR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Output Power</td>
<td>1200W</td>
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<tr>
<td>Input</td>
<td>11.2 to 12.9Vdc</td>
</tr>
<tr>
<td>Output</td>
<td>12V, 12Vsb</td>
</tr>
<tr>
<td>Battery Cell Capacity</td>
<td>68Whr</td>
</tr>
<tr>
<td>Redundant</td>
<td>N+1 / N+N</td>
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<tr>
<td>i²C Remote Monitoring</td>
<td>FRU/Smart battery i²C</td>
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<tr>
<td>+12V output</td>
<td>100A</td>
</tr>
<tr>
<td>12Vsb output</td>
<td>2.5A</td>
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<tr>
<td>Efficiency</td>
<td>Online mode battery power consumption less than 5W</td>
</tr>
<tr>
<td>Discharge Duration</td>
<td>1200W for 35 seconds</td>
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<tr>
<td>Cell Chemistry</td>
<td>Lithium-ion</td>
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<tr>
<td>Cooling</td>
<td>Internal 80 x 80mm cooling fan</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>5°C - 50°C</td>
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Estimated Runtime

<table>
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<tr>
<th>Power Load</th>
<th>Installed BBP Modules</th>
<th>Discharge Duration</th>
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<tbody>
<tr>
<td>1000W</td>
<td>4</td>
<td>180 seconds</td>
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<tr>
<td>2000W</td>
<td>4</td>
<td>120 seconds</td>
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<tr>
<td>3000W</td>
<td>4</td>
<td>60 seconds</td>
</tr>
<tr>
<td>4000W</td>
<td>4</td>
<td>35 seconds</td>
</tr>
<tr>
<td>4800W</td>
<td>4</td>
<td>35 seconds</td>
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</tbody>
</table>

Under typical conditions, above is the Estimated Runtime of PWS-1K20B-BR. Runtime can be extended by adding additional BBP® modules to a system.
7U SuperBlade®

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

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 TwinBlade®
Double Density

7U DataCenter Blade®
NVMe

7U StorageBlade®
NVMe

7U SuperBlade® Servers

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

2 GPU/Xeon Phi™
SBI-7128RG-X/F/F2

2x 25 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)
**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-714/E Series
- **Blade Server**: Up to 14 hot-pluggable blade servers
- **InfiniBand Switch**
  - **714Q**: Up to 2 hot-pluggable FDR/QDR IB switches
- **Ethernet Switch**
  - 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**
  - 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 (714D/E) or 1620W/2500W (714Q) 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”)
- 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**

### Model SBE-720/E/F Series
- **Blade Server**: Up to 10 hot-pluggable blade servers
- **InfiniBand Switch**
  - **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)
7U SuperBlade® X10 Server Technical Specifications

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

**Model**

**SBI-7128RG-X/F/F2**

- **Server Nodes/42U Rack**: 60 (+120 GPU/Intel® Xeon Phi™ coprocessor cards)
- **Processor**: Dual Intel® Xeon® processor E5-2600 v4/v3 product families with QPI up to 9.6 GT/s
- **Chipset**: Intel® C612
- **Memory Support**: 8 DDR4-2400 DIMM slots
- **Max Memory**: 1TB per node
- **Expansion & Drive Bays**:
  - 1 of 2 PCI-E 3.0 x16 (full-height) slots
  - 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
  - 1 SATA3 SSD or
  - Up to 2.5 SATA3 Drives + 1x 2.5" SSD**
- **Storage RAID**: Intel® PCH SATA3 RAID 0,1
- **InfiniBand/10G Option**:
  - **X**: Onboard dual-port 10G Ethernet
  - **F**: Onboard single-port FDR InfiniBand®
  - **F2**: Onboard dual-port FDR InfiniBand®
- **Ethernet Interface**: Dual-port Gigabit per node
- **Management**:
  - IPMI 2.0
  - KVM over IP
  - Virtual Media over LAN
  - Supermicro RSD
- **LED Indicators**: 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)

**SBI-7228R-T2F/T2F2/T2X**

- **Server Nodes/42U Rack**: 120
- **Processor**: Dual Intel® Xeon® processor E5-2600 v4/v3 product families with QPI up to 9.6 GT/s per node
- **Chipset**: Intel® C612
- **Memory Support**: 8 DDR4-2400 DIMM slots per node
- **Max Memory**: 1TB per node
- **Expansion & Drive Bays**:
  - 1 SuperDOM Port per node
  - 2 hot-plug 2.5" SATA3 drive bays per node
  - 1 SuperDOM Port per node
- **Storage RAID**: Intel® PCH SATA3 RAID 0,1
- **InfiniBand/10G Option**:
  - **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 per node
- **Management**:
  - IPMI 2.0
  - KVM over IP
  - Virtual Media over LAN
  - Supermicro RSD
- **LED Indicators**: 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)

---

**Notes**

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

**Supermicro** SuperBlade® / MicroBlade™ Server Solutions - May 2020
7U SuperBlade® X10 Server Technical Specifications

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

### StorageBlade®
- Dual Intel® Xeon® processor E2600 v4/v3
- SAS Mezzanine card
- 16 DIMM slots DDR4
- 6 hot-plug 2.5” NVMe/SAS3/SAS33 drive bays

### DatacenterBlade®
- Dual Intel® Xeon® processor E2600 v4/v3
- SAS Mezzanine card
- 16 DIMM slots DDR4

### Model Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>SBI-7128R-C6(N)</th>
<th>SBI-7428R-T3(N)/C3(N)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Server Nodes/42U Rack</td>
<td>60</td>
<td>84</td>
</tr>
<tr>
<td>Processor</td>
<td>Dual Intel® Xeon® processor E5-2600 v4/v3 product families with QPI up to 9.6 GT/s</td>
<td>Dual Intel® Xeon® processor E5-2600 v4/v3 product families with QPI up to 9.6 GT/s</td>
</tr>
<tr>
<td>Chipset</td>
<td>Intel® C612</td>
<td>Intel® C612</td>
</tr>
<tr>
<td>Memory Support</td>
<td>16 DDR4-2400 DIMM slots</td>
<td>16 DDR4-2400 VLP DIMM slots</td>
</tr>
<tr>
<td>Max Memory</td>
<td>2TB</td>
<td>512GB</td>
</tr>
<tr>
<td>Expansion &amp; Drive Bays</td>
<td>- C6: 6 hot-plug 2.5” SAS3/SATA3 drive bays</td>
<td>- C3: 3 hot-plug 2.5” SAS3/SATA3 drive bays</td>
</tr>
<tr>
<td></td>
<td>- C6N: 3 hot-plug 2.5” SAS3/SATA3 drive bays and 3 hot-plug 2.5” NVMe drive bays</td>
<td>- T3N/-C3N: 3 hot-plug 2.5” NVMe/SATA3/SAS3(3-C3N) drive bays</td>
</tr>
<tr>
<td></td>
<td>- 2 SuperDOM Ports</td>
<td>- 2 SuperDOM Ports</td>
</tr>
<tr>
<td>Storage RAID</td>
<td>Broadcom® 3108 with 2G Cache HW RAID 0,1,5,6,10,50 (Optional SuperCap for battery backup)</td>
<td>Intel PCH SATA RAID 0,1,5</td>
</tr>
<tr>
<td>InfiniBand/10G Option</td>
<td>FDR-10/QDR InfiniBand or 10Gbe/FCoE mezzanine HCA</td>
<td>FDR-10/QDR InfiniBand or 10Gbe/FCoE mezzanine HCA</td>
</tr>
<tr>
<td>Ethernet Interface</td>
<td>Dual-port Gigabit</td>
<td>Dual-port Gigabit</td>
</tr>
<tr>
<td>Management</td>
<td>IPMI 2.0, KVM over IP, Virtual Media over LAN, Supermicro RSD</td>
<td>IPMI 2.0, KVM over IP, Virtual Media over LAN, Supermicro RSD</td>
</tr>
<tr>
<td>LED Indicators</td>
<td>Fault LED, Network Activity LED, Power LED, UID / KVM LED</td>
<td>Fault LED, Network Activity LED, Power LED, UID / KVM LED per node</td>
</tr>
<tr>
<td>Dimensions (H x W x D)</td>
<td>1.67” (42.42mm) x 11.32” (287.53mm) x 20.5” (520.7mm)</td>
<td>1.19” (30.23mm) x 11.32” (287.53mm) x 18.9” (480.06mm)</td>
</tr>
</tbody>
</table>
### 7U SuperBlade® Networking Solutions

#### 1G Ethernet

<table>
<thead>
<tr>
<th>Model</th>
<th>Type</th>
<th>Downlinks</th>
<th>Uplinks</th>
</tr>
</thead>
<tbody>
<tr>
<td>SBM-GEM-001</td>
<td>Layer 2 Gigabit Ethernet Switch</td>
<td>14x Gigabit Ethernet Downlinks</td>
<td>10x 1G Ethernet RJ45 Uplinks</td>
</tr>
<tr>
<td>SBM-GEM-X45</td>
<td>Layer 2 Gigabit Ethernet Switch</td>
<td>14x Gigabit Ethernet Downlinks</td>
<td>3x 10G Ethernet SFP+ and 4x 1G Ethernet RJ45 Uplinks</td>
</tr>
</tbody>
</table>

#### 10G Ethernet and Converged Network

<table>
<thead>
<tr>
<th>Model</th>
<th>Type</th>
<th>Downlinks</th>
<th>Uplinks</th>
</tr>
</thead>
<tbody>
<tr>
<td>SBM-XEM-X8SM*</td>
<td>Layer 2/3 10G Ethernet Switch</td>
<td>10 (10 Blade)/14 (14 Blade)/20 (Twin Blade) 10G ports</td>
<td>4 (Twin Blade)/8/10 or 14 Blade) 11G SFP+ ports; 1 x 1G RJ45 port, Jumbo Frame up to 9Kb</td>
</tr>
<tr>
<td>SBM-XEM-FX45SM*</td>
<td>Data Center Converged Switch with FCoE</td>
<td>10/20x 10G Downlinks to ports on mezzanine cards, support DCB, FCoE</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ethernet</th>
<th></th>
<th>Fibre Channel</th>
<th>6x Fibre Channel N_Port Uplinks, support 2/4/8G</th>
</tr>
</thead>
</table>

#### Stacking

- N/A

#### Trunking

- Static Link aggregation support (802.3ad)
- Full Link aggregation support (802.3ad)
- Full Link aggregation support (802.3ad)
- Full Link aggregation support (802.3ad)

#### 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
- 20 x 1G downlinks, 4x 10G SFP+ and 4x 1G RJ45 uplinks
- 4K VLANs, STP, RSTP, MSTP, IGMP snooping, 802.1x
- ACL, DHCP, VRRP, RIP, OSPF, BGP, IPv6, IPv4, IPv6, IGMP, PIM, DVMRP, QoS

#### Layer 3 Features

- N/A
- N/A
- N/A
- N/A

#### 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

<table>
<thead>
<tr>
<th>Model</th>
<th>Type</th>
<th>Downlinks</th>
<th>Uplinks</th>
</tr>
</thead>
<tbody>
<tr>
<td>SBM-GEP-T20</td>
<td>Ethernet pass-through module for TwinBlade SBE-720D and SBE-720E enclosures</td>
<td>20x 1G Ethernet Downlinks</td>
<td>20x 1G Ethernet RJ45 Uplinks (Speed fixed at 1G - no auto negotiation)</td>
</tr>
</tbody>
</table>

### InfiniBand

<table>
<thead>
<tr>
<th>Model</th>
<th>Type</th>
<th>Downlinks</th>
<th>Uplinks</th>
</tr>
</thead>
<tbody>
<tr>
<td>AOC-XEH-iN2</td>
<td>Ethernet pass-through module for 10-Blade and 14-Blade enclosures</td>
<td>4x FDR InfiniBand Switch</td>
<td>14x 1G Ethernet RJ45 Uplinks</td>
</tr>
<tr>
<td>AOC-XEH-B2S</td>
<td>Ethernet pass-through module for 10-Blade and 14-Blade enclosures</td>
<td>14x 1G Ethernet Downlinks</td>
<td>20x 4x FDR InfiniBand Switch</td>
</tr>
<tr>
<td>AOC-IBH-X3QS</td>
<td>Ethernet pass-through module for 10-Blade and 14-Blade enclosures</td>
<td>16x 4x FDR QSFP+ Uplinks</td>
<td></td>
</tr>
</tbody>
</table>

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

#### InfiniBand/10G Ethernet/FCoE Mezzanine HCA

<table>
<thead>
<tr>
<th>Model</th>
<th>Chipset</th>
<th>Ports</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AOC-XEH-iN2</td>
<td>Intel® 82599 (Niantic)</td>
<td>Dual port 10G Ethernet (FCoE support)</td>
<td>Dual port 10G Ethernet (FCoE support)</td>
</tr>
<tr>
<td>AOC-XEH-B2S</td>
<td>Broadcom 57402 (Cumulus)</td>
<td>Dual port 10G Ethernet (FCoE support)</td>
<td>Dual port 4x FDR InfiniBand or 10G Ethernet</td>
</tr>
<tr>
<td>AOC-IBH-X3QS</td>
<td>Mellanox ConnectX3</td>
<td>Single port 4x FDR InfiniBand or 10G Ethernet</td>
<td>Single port 4x FDR InfiniBand or 10G Ethernet</td>
</tr>
</tbody>
</table>

#### Optional Parts List

<table>
<thead>
<tr>
<th>Type</th>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SFP+ Cable</td>
<td>CBL-0347L</td>
<td>39.37” (100cm) 10GbE SFP+ TO SFP+, Twinax copper cable</td>
</tr>
<tr>
<td>SFP+ Cable</td>
<td>CBL-0456L</td>
<td>78.74” (200cm) 10GbE SFP+ TO SFP+, Twinax copper cable</td>
</tr>
<tr>
<td>QSFP Cable</td>
<td>CBL-NLWK-0417-01</td>
<td>1M INFINIBAND QSFP TO QSFP QDR with EEPROM 30AWG</td>
</tr>
<tr>
<td>QSFP Cable</td>
<td>CBL-NLWK-0325-02</td>
<td>2M INFINIBAND QSFP TO QSFP QDR with EEPROM 26AWG</td>
</tr>
<tr>
<td>SFP Transceiver</td>
<td>AOC-TFC8-FS</td>
<td>8G FC SFP Transceiver for Fiber Channel</td>
</tr>
<tr>
<td>SFP Transceiver</td>
<td>AOC-E10GFSPLR</td>
<td>10GBe SFP+ Transceiver for long range</td>
</tr>
<tr>
<td>SFP+ Cable</td>
<td>CBL-0348L</td>
<td>111.8” (300cm) 10GbE SFP+ TO SFP+, Twinax copper cable</td>
</tr>
<tr>
<td>SFP+ Cable</td>
<td>CBL-0349L</td>
<td>196.85” (500cm) 10GbE SFP+ TO SFP+, Twinax copper cable</td>
</tr>
<tr>
<td>QSFP Cable</td>
<td>CBL-NLWK-0446-01</td>
<td>3M INFINIBAND QSFP TO QSFP QDR with EEPROM 32B4WG</td>
</tr>
<tr>
<td>QSFP Cable</td>
<td>CBL-NLWK-0422-01</td>
<td>5M INFINIBAND QSFP TO QSFP QDR with EEPROM 26AWG</td>
</tr>
<tr>
<td>SFP Transceiver</td>
<td>AOC-E10GFSPLR</td>
<td>10GBe SFP+ Transceiver</td>
</tr>
</tbody>
</table>
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

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

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

<table>
<thead>
<tr>
<th>Model</th>
<th>PWS-1K62-BR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Output</td>
<td>1620W</td>
</tr>
<tr>
<td>Type</td>
<td>Redundant Module (N+1)</td>
</tr>
<tr>
<td>+12V</td>
<td>132A (200~240VAC input)</td>
</tr>
<tr>
<td>SVSB</td>
<td>16A</td>
</tr>
<tr>
<td>PFC</td>
<td>Yes</td>
</tr>
<tr>
<td>Peak Efficiency</td>
<td>93%+</td>
</tr>
<tr>
<td>Input AC Range</td>
<td>100~240VAC</td>
</tr>
<tr>
<td>Operating Conditions</td>
<td>Temp: -5 to 50°C</td>
</tr>
<tr>
<td></td>
<td>Humidity: 5 to 95% RH</td>
</tr>
<tr>
<td>Fan Type</td>
<td>2x 90mm fans</td>
</tr>
</tbody>
</table>

Power Supply Cable Options

<table>
<thead>
<tr>
<th>Country</th>
<th>Australia</th>
<th>China</th>
<th>Isreal</th>
<th>India / S. Africa</th>
<th>Italy/S. America</th>
<th>Euro</th>
<th>UK</th>
<th>US</th>
<th>US</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model</td>
<td>CBL-0238L</td>
<td>CBL-0239L</td>
<td>CBL-0243L</td>
<td>CBL-0245L</td>
<td>CBL-0244L</td>
<td>CBL-0240L</td>
<td>CBL-0241L</td>
<td>CBL-0247L</td>
<td>CBL-0250L</td>
</tr>
<tr>
<td>Length</td>
<td>2.5m</td>
<td>2.5m</td>
<td>2.5m</td>
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<td>2.5m</td>
<td>2.5m</td>
<td>2.5m</td>
<td>2.5m</td>
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</tr>
<tr>
<td>Inlet</td>
<td>AS 3112</td>
<td>GB-2099-1-1996</td>
<td>SI32</td>
<td>BS 546</td>
<td>CEI 23-16</td>
<td>&quot;Schuko&quot;</td>
<td>CEI 7/7</td>
<td>BS 1363</td>
<td>NEMA 6-20P</td>
</tr>
<tr>
<td>Certificate</td>
<td>SAA</td>
<td>CCEE</td>
<td>SII</td>
<td>SABS</td>
<td>VDE, HAR</td>
<td>VDE, KEMA, CEBEC, NEMKO, DEMKO, SETI, OVE, SEV</td>
<td>BSI</td>
<td>UL</td>
<td>UL/CUL</td>
</tr>
<tr>
<td>Current</td>
<td>15A</td>
<td>16A</td>
<td>16A</td>
<td>16A</td>
<td>15A</td>
<td>15A</td>
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<td>Voltage</td>
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<td>250V</td>
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<td>250V</td>
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<td>250V</td>
</tr>
</tbody>
</table>
SuperMicro®/MicroBlade™ Server Solutions

Global Expansion
Providing Greater Economies of Scale and Accelerated Support to Data Center, Cloud Computing, AI, Enterprise IT, Hadoop/Big Data, HPC, 5G, Hyperscale, and Embedded Solutions Customers Worldwide

Worldwide Headquarters
San Jose, California, USA

America
- Supermicro’s Headquarters expansion:
  Over 1.5 million square foot Green Computing Park in San Jose, California signals the company’s increasing leadership in the IT industry
- One of the largest high-tech R&D, manufacturing, and business hubs in Silicon Valley
- East coast sales and service office

APAC
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