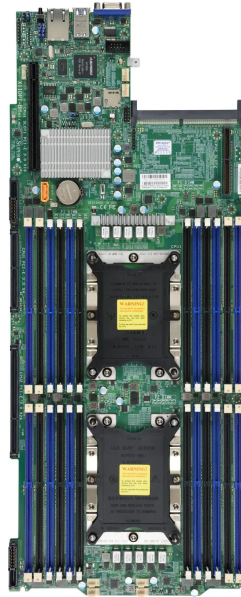


X11DPT-BH (For SuperServer Only)



Key Features

1. 2nd Gen Intel® Xeon® Scalable Processors and Intel® Xeon® Scalable Processors, Dual Socket LGA-3647 (Socket P) supported, CPU TDP support Up to 205W TDP, 3 UPI up to 10.4 GT/s
2. Intel® C621
3. Up to 6TB 3DS ECC RDIMM, DDR4-2933MHz; Up to 6TB 3DS ECC LRDIMM, DDR4-2933MHz
Or 6TB DCPMM, DDR4-2666MHz, in 24 DIMM slots;
Up to 6TB Intel® Optane™ DC Persistent Memory in memory mode (Cascade Lake only);
4. 1 PCI-E 3.0 x16 Left Riser Slot,
1 PCI-E 3.0 x16 Right Riser Slot
1 PCI-E 3.0 x24 Proprietary Slot (for Supermicro storage add-on card),
x000D 1 PCI-E 3.0 x16 SIOM LAN Networking Slot,
x000D 1 PCI-E 3.0 x8 Proprietary Slot (For M.2 add-on card)
5. Intel® C621 controller for SATA3 (6 Gbps) ports; RAID 0,1,5,10
6. 1 VGA port
7. Single LAN with
Networking option provided via SIOM module

Specifications

Product SKUs

| | |
|----------------------|---|
| MBD-X11DPT-BH | <ul style="list-style-type: none"> X11DPT-BH |
|----------------------|---|

Physical Stats

| | |
|--------------------|---|
| Form Factor | <ul style="list-style-type: none"> Proprietary Twin |
| Dimension | <ul style="list-style-type: none"> 7.62" x 19.4" (19.35cm x 49.28cm) |

Processor

| | |
|-------------|--|
| CPU | <ul style="list-style-type: none"> 2nd Gen Intel® Xeon® Scalable Processors and Intel® Xeon® Scalable Processors Dual Socket LGA-3647 (Socket P) supported, CPU TDP supports Up to 205W TDP, 3 UPI up to 10.4 GT/s |
| Core | <ul style="list-style-type: none"> Up to 28 cores |
| Note | <ul style="list-style-type: none"> BIOS version 3.0a or above is required to support 2nd Generation Intel Xeon Scalable Processors-SP BIOS version 3.0a or above is required to support 2nd Generation Intel Xeon Scalable Processors-SP BIOS version 3.2 or above is required to support 2nd Gen Intel® Xeon® Scalable processors (codenamed Cascade Lake-R) |

System Memory

| | |
|------------------------|---|
| Memory Capacity | <ul style="list-style-type: none"> 24 DIMM slots Up to 6TB Intel® Optane™ Persistent Memory 200 Series, DDR4-2666MHz Up to 6TB 3DS ECC LRDIMM, DDR4-2933MHz; Up to 6TB 3DS ECC RDIMM, DDR4-2933MHz Up to 6TB Intel® Optane™ DC Persistent Memory in memory mode (Cascade Lake only) |
| Memory Type | <ul style="list-style-type: none"> 2933/2666/2400/2133MHz ECC DDR4 LRDIMM (3DS), RDIMM (3DS) |
| DIMM Sizes | <ul style="list-style-type: none"> LRDIMM: 64GB RDIMM: 64GB |
| Memory Voltage | <ul style="list-style-type: none"> 1.2V |
| Error Detection | <ul style="list-style-type: none"> Corrects single-bit errors Detects double-bit errors (using ECC memory) |

On-Board Devices

| | |
|----------------|--|
| Chipset | <ul style="list-style-type: none"> Intel® C621 |
| SATA | <ul style="list-style-type: none"> Intel® C621 controller for SATA3 (6 Gbps) ports; RAID 0,1,5,10 |

Expansion Slots

| | |
|--------------|--|
| PCI-E | <ul style="list-style-type: none"> 1 PCI-E 3.0 x16 Left Riser Slot, 1 PCI-E 3.0 x16 Right Riser Slot 1 PCI-E 3.0 x24 Proprietary Slot (for Supermicro storage add-on card), 1 PCI-E 3.0 x16 SIOM LAN Networking Slot, 1 PCI-E 3.0 x8 Proprietary Slot (For M.2 add-on card) |
|--------------|--|

System BIOS

| | |
|------------------|--|
| BIOS Type | <ul style="list-style-type: none"> AMI UEFI |
|------------------|--|

Management

| | |
|-----------------------------|--|
| Software | <ul style="list-style-type: none"> SuperDoctor® 5, <u>SUM</u>, KVM with dedicated LAN, <u>SPM</u>, <u>SSM</u>, <u>IPMI2.0</u>, Watchdog |
| Power Configurations | <ul style="list-style-type: none"> ACPI Power Management |

PC Health Monitoring

| | |
|-----------------------|--|
| Voltage | <ul style="list-style-type: none"> Monitors CPU voltages, Chipset Voltage, 1.05 (PCH), +5V standby, +5V, +3.3V, +12V, +1.8V, Memory Voltages |
| LED | <ul style="list-style-type: none"> UID/Remote UID BMC/IPMI Heartbeat LED |
| Temperature | <ul style="list-style-type: none"> Monitoring for CPU and chassis environment CPU thermal trip support Thermal Control for 6 Fan Connectors |
| FAN | <ul style="list-style-type: none"> 6x 4-pin fan headers (up to 6 fans) PWM fan speed control Dual Cooling Zone |
| Other Features | <ul style="list-style-type: none"> WOL, UID, RoHS, Node Manager Support, CPU thermal trip support for processor protection, Chassis intrusion header, Chassis intrusion detection, SDDC |

Operating Environment

| | |
|--|--|
| Operating Temperature Range | <ul style="list-style-type: none"> 10°C - 35°C (50°F - 95°F) |
| Non-Operating Temperature Range | <ul style="list-style-type: none"> -40°C - 70°C (-40°F - 158°F) |
| Operating Relative Humidity Range | <ul style="list-style-type: none"> 8% - 90% (non-condensing) |

| | |
|----------------------------|--|
| IPMI | ▪ ASPEED AST2500 |
| Graphics | ▪ ASPEED AST2500 BMC |
| Network Controllers | ▪ Single LAN, Networking option provided via SIOM module |

| | |
|--|-----------------------------|
| Non Operating Relative Humidity Range | ▪ 5% - 95% (non-condensing) |
|--|-----------------------------|

Input / Output

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|---------------------|--|
| SATA | ▪ 8 SATA3 (6Gbps) port(s) |
| LAN | ▪ 1 Flexible LAN expansion via SIOM module |
| USB | ▪ 2 USB 3.0 port(s) (2 rear) |
| Video Output | ▪ 1 VGA port(s) |
| DOM | ▪ 1 SATA <u>DOM</u> (Disk on Module) power connector support |
| TPM | ▪ 1 TPM Header |

Parts List

| Parts List (Bulk Package) | | | |
|---------------------------|---------------|-----|-----------------------|
| Name | Part Number | Qty | Description |
| Motherboard | MBD-X11DPT-BH | 1 | X11DPT-BH Motherboard |

Chassis (Optimized for X11DPT-BH)

| Embedded Compact | 1U | 2U | 3U | Mid/Mini-Tower | 4U/Tower |
|------------------|----|--|----|----------------|----------|
| | | <ul style="list-style-type: none"> ● SC217BHQ+-R2K22BP ● SC827BHD+-R2K22BP ● SC827BHQ+-R2K22BP ● SC217BHD+-R2K22BP | | | |

● = Most optimized Chassis for SuperServer Configuration
 Blue color = Compatible
 Green color = Global SKU & Compatible
 Red dot & green color = Optimized + Global SKU

Server (Optimized for X11DPT-BH)

| Server Name |
|-----------------------|
| <u>SYS-2029BZ-HNR</u> |

