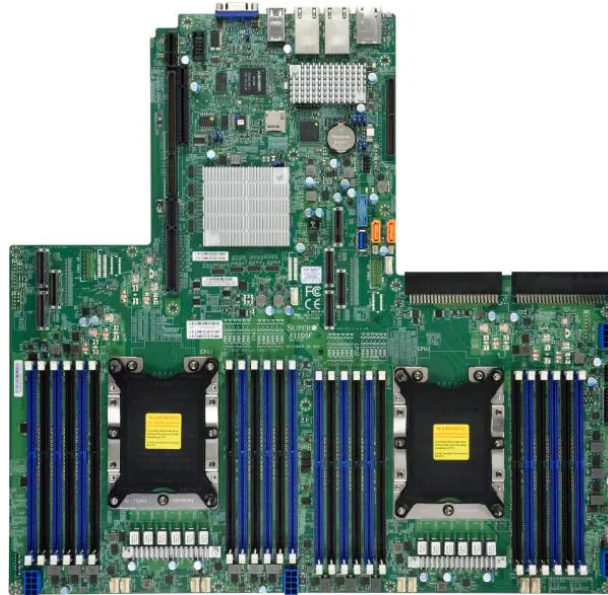


X11DSF-E (For SuperServer Only)



24 DIMMs
NVMe
3 UPI

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® C627
3. Up to 6TB 3DS ECC RDIMM, DDR4-2933MHz; Up to 6TB 3DS ECC LRDIMM, DDR4-2933MHz, in 24 DIMM slots;
Up to 6TB Intel® Optane™ DC Persistent Memory in memory mode (Cascade Lake only)
4. 1 PCI-E 3.0 x32 Left Riser Slot,
2 PCI-E 3.0 x4 (Low Profile),
4 PCI-E 3.0 x16
5. Dual LAN with 10GBase-T with Intel® X550
6. Intel® C627 controller for 8 SATA3 (6 Gbps) ports; RAID 0, 1, 5, 10
7. 1 VGA D-Sub Connector port

Specifications

Expansion Slots

- | | |
|--------------|--|
| PCI-E | <ul style="list-style-type: none"> 1 PCI-E 3.0 x32 Left Riser Slot, 2 PCI-E 3.0 x4 (Low Profile), 4 PCI-E 3.0 x16 |
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System BIOS

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

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| Software | <ul style="list-style-type: none"> SuperDoctor® 5, NMI, <u>SUM</u>, KVM with dedicated LAN, <u>SPM</u>, Intel® Node Manager, <u>SSM</u>, <u>IPMI2.0</u>, Watchdog, IPMI (Intelligent Platform Management Interface) v2.0 with KVM support |
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|-----------------------------------|--|
| System Management Software | <ul style="list-style-type: none"> IPMI (Intelligent Platform Management Interface) v1.5 / 2.0 with KVM support |
|-----------------------------------|--|
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PC Health Monitoring

- | | |
|----------------|--|
| Voltage | <ul style="list-style-type: none"> VBAT, Monitors CPU voltages, Chipset Voltage, +5V standby, +5V, +3.3V, +12V, +1.8V, +1.5V, Memory Voltages |
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|------------|---|
| LED | <ul style="list-style-type: none"> UID/Remote UID CPU / System Overheat LED |
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|------------|---|
| FAN | <ul style="list-style-type: none"> 8x 4-pin fan headers (up to 8 fans) Fan speed control Pulse Width Modulated (PWM) fan connectors Overheat LED indication 8x fans with tachometer monitoring |
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|-----------------------|---|
| Other Features | <ul style="list-style-type: none"> WOL, UID, System level control, RoHS, Node Manager Support, CPU thermal trip support for processor protection, Control of power-on for recovery from AC power loss, Chassis intrusion header, Chassis intrusion detection, RoHS, Halogen Free, Intel® QuickAssist Technology, Innovation Engine |
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Operating Environment

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

Product SKUs

MBD-X11DSF-E ■ X11DSF-E

**Non Operating
Relative
Humidity
Range** ■ 5% - 95% (non-condensing)

Physical Stats

Form Factor ■ Proprietary

Dimension ■ 16.337" x 17" (41.5cm x 43.18cm)

Processor

CPU ■ 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

Note ■ *2933 MHz in two DIMMs per channel can be achieved by using memory purchased from Supermicro

System Memory

Memory Capacity ■ 24 DIMM slots
 ■ 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 ■ 2666/2400/2133MHz ECC DDR4 LRDIMM (3DS), RDIMM (3DS)

DIMM Sizes ■ LRDIMM: 64GB, 128GB
 ■ RDIMM: 32GB, 64GB, 128GB

Memory Voltage ■ 1.2V

Error Detection ■ Corrects single-bit errors
 ■ Detects double-bit errors (using ECC memory)

On-Board Devices

Chipset ■ Intel® C627

SATA ■ Intel® C627 controller for 8 SATA3 (6 Gbps) ports; RAID 0,1,5,10

IPMI ■ ASPEED AST2500

Network Controllers ■ Dual LAN with 10GBase-T with Intel® X550

Input / Output

USB ■ 3 USB 3.2 Gen1 port(s) (2 via header; 1 type A)
 ■ 2 USB 3.0 port(s) (2 rear)

Video Output ■ 1 VGA D-Sub Connector port(s)

Serial Port ■ 1 COM Port(s) (1 header)

DOM ■ 2 SuperDOM (Disk on Module) port with build power

TPM ■ 1 TPM Header

Parts List

Parts List (Bulk Package)			
Name	Part Number	Qty	Description
Motherboard	MBD-X11DSF-E	1	X11DSF-E Motherboard

Optional Parts List			
Name	Part Number	Qty	Description
TPM security module (optional, not included)	<u>AOM-TPM-9670V</u>	1	SPI capable TPM 2.0 with Infineon 9670 controller with vertical form factor

Server (Optimized for X11DSF-E)

Server Name
<u>SSG-1029P-NES32R</u>

