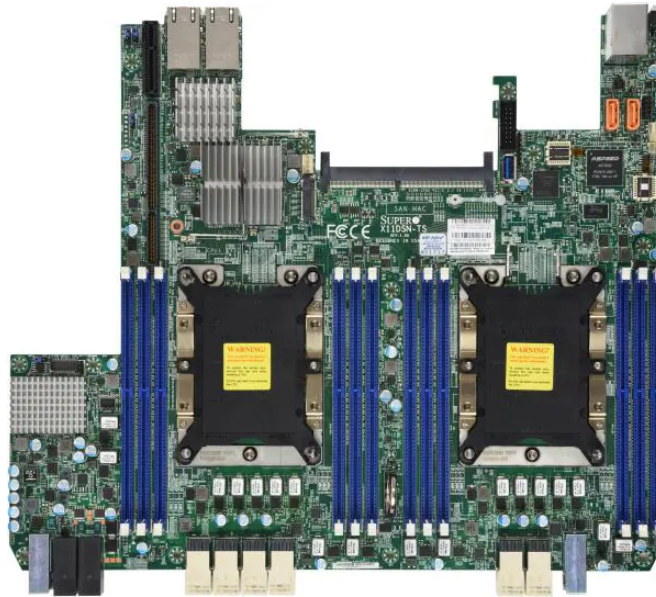


X11DSN-TSQ (For SuperServer Only)



Intel® Quick Assist Technology SIOM LAN Support NVMe

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 3TB 3DS ECC RDIMM, DDR4-2933MHz; Up to 3TB 3DS ECC LRDIMM, DDR4-2933MHz, in 12 DIMM slots; Up to 2TB Intel® Optane™ DC Persistent Memory in memory mode (Cascade Lake only)
4. 2 PCI-E 3.0 x16 Left Riser Slot
M.2 Interface: 1 PCI-E 3.0 x4
M.2 Form Factor: 2242/2260/2280
M.2 Key: M-Key
5. Dual LAN with 10GBase-T with Intel® X557
6. 1 VGA D-Sub Connector port
7. Intel® PCH SATA controller for

Specifications

Expansion Slots

PCI-E	<ul style="list-style-type: none"> 2 PCI-E 3.0 x16 Left Riser Slot
M.2	<ul style="list-style-type: none"> M.2 Interface: 1 PCI-E 3.0 x4 Form Factor: 2242/2260/2280 Key: M-Key

System BIOS

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

Software	<ul style="list-style-type: none"> SuperDoctor® 5, NMI, SUM, KVM with dedicated LAN, SPM, Intel® Node Manager, SSM, IPMI2.0, Watchdog, IPMI (Intelligent Platform Management Interface) v2.0 with KVM support, SuperDoctor® III
System Management Software	<ul style="list-style-type: none"> IPMI (Intelligent Platform Management Interface) v1.5 / 2.0 with KVM support
Power Configurations	<ul style="list-style-type: none"> M.2 NGFF connector, Node Manager Support, SDDC, System level control, UID, WOL

PC Health Monitoring

Voltage	<ul style="list-style-type: none"> VBAT, Monitors CPU voltages, 1.2V (VDIMM), 1.05 (PCH), +5V standby, +5V, +3.3V, +12V, +1.35V, Memory Voltages
LED	<ul style="list-style-type: none"> CPU / System Overheat LED
Temperature	<ul style="list-style-type: none"> Monitoring for CPU and chassis environment
FAN	<ul style="list-style-type: none"> 4x 4-pin fan headers (up to 4 fans) PWM fan speed control Overheat LED indication
Other Features	<ul style="list-style-type: none"> WOL, UID, RoHS, Node Manager Support, M.2 NGFF connector, Control of power-on for recovery from AC power loss, Chassis intrusion detection, RoHS, Halogen Free, Intel® QuickAssist Technology, Innovation Engine

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"> -20°C - 60°C (-4°F - 140°F)
Operating Relative Humidity Range	<ul style="list-style-type: none"> 8% - 90% (non-condensing)

Product SKUs

MBD-X11DSN-TSQ	<ul style="list-style-type: none"> ▪ X11DSN-TSQ
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Non Operating Relative Humidity Range	<ul style="list-style-type: none"> ▪ 10% - 95% (non-condensing)
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Physical Stats

Form Factor	<ul style="list-style-type: none"> ▪ Proprietary
Dimension	<ul style="list-style-type: none"> ▪ 11.5" x 13.9" (29.21cm x 35.31cm)

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
Note	<ul style="list-style-type: none"> ▪ 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"> ▪ 12 DIMM slots ▪ Up to 3TB 3DS ECC LRDIMM, DDR4-2933MHz; Up to 3TB 3DS ECC RDIMM, DDR4-2933MHz ▪ Up to 2TB Intel® Optane™ DC Persistent Memory in memory mode (Cascade Lake only)
Memory Type	<ul style="list-style-type: none"> ▪ ECC DDR4 LRDIMM (3DS), RDIMM (3DS)
DIMM Sizes	<ul style="list-style-type: none"> ▪ LRDIMM: 64GB, 128GB ▪ RDIMM: 64GB, 128GB
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® C627
SATA	<ul style="list-style-type: none"> ▪ Intel® PCH SATA controller for ports
IPMI	<ul style="list-style-type: none"> ▪ ASPEED AST2500
Graphics	<ul style="list-style-type: none"> ▪ ASPEED AST2500 BMC
Network Controllers	<ul style="list-style-type: none"> ▪ Dual LAN with 10GBase-T with Intel® X557

Input / Output

USB	<ul style="list-style-type: none"> ▪ 1 USB 3.2 Gen1 port(s) (1 type A) ▪ 2 USB 3.0 port(s) (2 rear)
Video Output	<ul style="list-style-type: none"> ▪ 1 VGA D-Sub Connector port(s)
Serial Port	<ul style="list-style-type: none"> ▪ 2 COM Port(s) (1 header; 1 rear)
TPM	<ul style="list-style-type: none"> ▪ 1 TPM Header

Parts List

Parts List (Bulk Package)			
Name	Part Number	Qty	Description
Motherboard	MBD-X11DSN-TSQ	1	X11DSN-TSQ Motherboard

