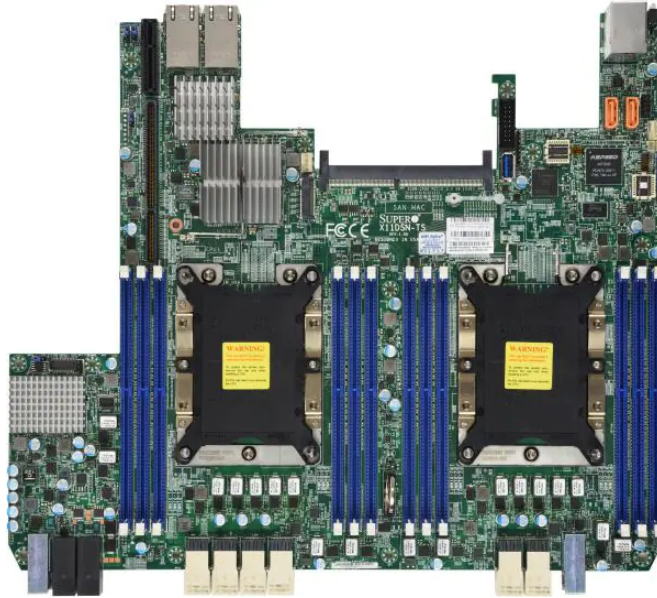# X11DSN-TS (For SuperServer Only)

NVMe
SIOM LAN Support

Key Features

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

Intel® C624

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)

2 PCIe 3.0 x16 Left Riser Slot

M.2 Interface: 1 PCIe 3.0 x4

M.2 Form Factor: 2242/2260/2280

M.2 Key: M-Key

Dual LAN with 10GBase-T with Intel® X557

1 VGA D-Sub Connector port

Intel® PCH SATA controller for

Optimized Servers

SSG-2029P-DN2R24L

Specifications

Product SKUs
MBD-X11DSN-TS

Physical Stats
Form Factor
Proprietary
Dimension
11.5" x 13.9" (29.21cm x 35.31cm)

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
Core
Up to 28 cores
Note
BIOS version 3.2 or above is required to support 2nd Gen Intel® Xeon® Scalable processors (codenamed Cascade Lake-R)

System Memory
Memory Capacity
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
2933/2666/2400/2133 MT/s 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® C624
SATA
Intel® PCH SATA controller for ports
IPMI
ASPEED AST2500
Graphics
1 ASPEED AST2500 BMC port(s)
Network Controllers
Dual LAN with 10GBase-T with Intel® X557

Input / Output
USB
1 USB 3.2 Gen1 port(s) (1 type A)
2 USB 3.0 port(s) (2 rear)
Video Output
1 VGA D-Sub Connector port(s)
Serial Port
2 COM Port(s) (1 header; 1 rear)
TPM
1 TPM Header

Expansion Slots
PCIe
2 PCIe 3.0 x16 Left Riser Slot
M.2
M.2 Interface: 1 PCIe 3.0 x4
Form Factor: 2242/2260/2280
Key: M-Key

System BIOS
BIOS Type
AMI UEFI

Management
Software
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
System Management Software
IPMI (Intelligent Platform Management Interface) v1.5 / 2.0 with KVM support

PC Health Monitoring
Voltage
VBAT, Monitors CPU voltages, 1.2V (VDIMM), 1.05 (PCH), +5V standby, +5V, +3.3V, +12V, +1.5V, +1.35V, Memory Voltages
LED
UID/Remote UID
CPU / System Overheat LED
FAN
4x 4-pin fan headers (up to 4 fans)
PWM fan speed control
Fan speed control
Overheat LED indication
Other Features
WOL, UID, RoHS, Node Manager Support, CPU thermal trip support for processor protection, Control of power-on for recovery from AC power loss, Chassis intrusion detection, RoHS, Halogen Free, Innovation Engine

Operating Environment
Operating Temperature Range
10°C - 35°C (50°F - 95°F)
Non-Operating Temperature Range
-20°C - 60°C (-4°F - 140°F)
Operating Relative Humidity Range
8% - 90% (non-condensing)
Non Operating Relative Humidity Range
10% - 95% (non-condensing)

Parts List