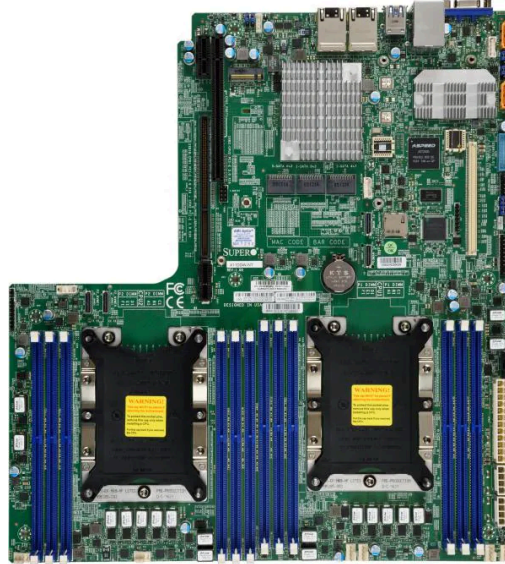


X11DDW-NT



Datacenter Optimized

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, 2 UPI up to 10.4 GT/s Intel® C622
- 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).
- 1 PCIe 3.0 x32 Left Riser Slot,
- 1 PCIe 3.0 x16 Right Riser Slot,
- 1 PCIe 3.0 x16 for Add-On-Module (AOM)
- M.2 Interface:** PCIe 3.0 x4
- M.2 Form Factor:** 2242, 2260, 2280, 22110
- M.2 Key:** M-Key
- U.2 Interface: PCIe 3.0 x4,
- 4 PCIe 3.0 NVMe x4 Internal Port(s)
- Intel® C622 controller for 14 SATA3 (6 Gbps) ports; RAID 0,1,5,10
- Dual LAN with 10Gbase-T
- from C622
- 1 VGA port

Optimized Servers

- [SSG-6019P-ACR12L+ \(/en/products/system/1u/6019/ssg-6019p-acr12l .cfm\)](#)
- [SYS-1029P-WTRT \(/en/products/system/1u/1029/sys-1029p-wtrt.cfm\)](#)
- [SYS-6029P-WTRT \(/en/products/system/2u/6029/sys-6029p-wtrt.cfm\)](#)

Specifications

Product SKUs

MBD-X11DDW-NT

Physical Stats

Form Factor

Proprietary WIO

Dimension

12.3" x 13.4" (31.24cm x 34.04cm)

Processor

CPU

2nd Gen Intel® Xeon® Scalable Processors and Intel® Xeon® Scalable Processors

Dual Socket Socket P (LGA-3647) supported, CPU TDP supports Up to 205W TDP, Dual UPI up to 10.4 GT/s

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, DDR4-2933MT/s; Up to 3TB 3DS ECC RDIMM, DDR4-2933MT/s

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: 64GB, 128GB

Memory Voltage

1.2V

Error Detection

Corrects single-bit errors

Detects double-bit errors (using ECC memory)

On-Board Devices

Chipset

Intel® C622

SATA

Intel® C622 controller for 14 SATA3 (6 Gbps) ports; RAID 0,1,5,10

IPMI

ASPEED AST2500

Graphics

1 ASPEED AST2500 BMC port(s)

Network Controllers

Dual LAN with 10Gbase-T, from C622

Input / Output

LAN

2 RJ45 10GBase-T ports

USB

6 USB 3.2 Gen1 port(s) (2 via header; 4 rear)

Video Output

1 VGA port(s)

DOM

2 SuperDOM ([/SATADOM/](#)), (Disk on Module) ports

TPM

1 TPM Header

Expansion Slots

PCIe

1 PCIe 3.0 x32 Left Riser Slot,

1 PCIe 3.0 x16 Right Riser Slot,

1 PCIe 3.0 x16 for Add-On-Module (AOM)

M.2

M.2 Interface: PCIe 3.0 x4

Form Factor: 22110, 2280, 2242, 2260

Key: M-Key

System BIOS

BIOS Type

256MB UEFI

Management

Software

SuperDoctor® 5, [SUM \(/solutions/SMS_SUM.cfm\)](#), KVM with dedicated LAN, [SPM \(/solutions/SMS_SPM.cfm\)](#), Intel® Node Manager, [SSM \(/solutions/SMS_SSM.cfm\)](#), [IPMI2.0 \(/solutions/IPMI.cfm\)](#), Watchdog

PC Health Monitoring

Voltage

Monitors CPU voltages, +5V standby, +5V, +3.3V, +12V, +1.8V, Memory Voltages

LED

UID/Remote UID

Power LED

BMC/IPMI Heartbeat LED

CPU / System Overheat LED

Temperature

Monitoring for CPU and chassis environment

CPU thermal trip support

FAN

6x 4-pin fan headers (up to 6 fans)

PWM fan speed control

6 fans with tachometer status monitoring

Status monitoring for speed control

Other Features

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

Operating Environment

Operating Temperature Range

10°C - 35°C (50°F - 95°F)

Non-Operating Temperature Range

-40°C - 70°C (-40°F - 158°F)

Operating Relative Humidity Range

8% - 90% (non-condensing)

Non Operating Relative Humidity Range

5% - 95% (non-condensing)

Parts List

Standard Parts (Bulk Package)

IO Cable

Part Number CBL-SAST-0388L-02 •

[eStore](#) [\(https://store.supermicro.com/supermicro-internal-ipass-to-4-sata-90-90-70-70cm-with-sideband-90cm-cable-cbl-sast-0388L-02.html\)](https://store.supermicro.com/supermicro-internal-ipass-to-4-sata-90-90-70-70cm-with-sideband-90cm-cable-cbl-sast-0388L-02.html)

Qty 1

Description IPASS to 4 SATA cable

X11DDW-NT

Part Number MBD-X11DDW-NT

Qty 1

Description Motherboard

Standard Parts (Retail Package)**IO Cable**

Part Number CBL-SAST-0388L-02 •

[eStore](#) [\(https://store.supermicro.com/supermicro-internal-ipass-to-4-sata-90-90-70-70cm-with-sideband-90cm-cable-cbl-sast-0388L-02.html\)](https://store.supermicro.com/supermicro-internal-ipass-to-4-sata-90-90-70-70cm-with-sideband-90cm-cable-cbl-sast-0388L-02.html)

Qty 1

Description IPASS to 4 SATA cable

Quick Reference Guide

Part Number MNL-1907-QRG

Qty 1

Description Quick Reference Guide

X11DDW-NT

Part Number MBD-X11DDW-NT

Qty 1

Description Motherboard

Optional Parts**TPM security module (optional, not included)**Part Number [AOM-TPM-9670V-S \(/products/accessories/addon/AOM-TPM-9670V-S_H-S.php\)](#) [AOM-TPM-9671V-S \(/products/accessories/addon/AOM-TPM-9671V-S_H-S.php\)](#)

Qty --

Description SPI capable TPM 2.0 with Infineon 9670 controller with horizontal form factor

SPI capable TPM 1.2 with Infineon 9670 controller with vertical form factor

Certain products may not be available in your region

[Global SKU \(/en/products/SMC_global_skus\)](#)