

X11DPI-NT



(/Global



Dual 10GbE

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 4TB 3DS ECC RDIMM, DDR4-2933MHz; Up to 4TB 3DS ECC LRDIMM, DDR4-2933MHz

Or 2TB Intel© PMem, DDR4-2666MHz, in 16 DIMM slots;

Up to 2TB Intel® Optane™ DC Persistent Memory in memory mode (Cascade Lake only);

4 PCIe 3.0 x16,

2 PCIe 3.0 x8,

2 PCIe 3.0 NVMe x4 Internal Port(s)

M.2 Interface: PCIe 3.0 x4

M.2 Form Factor: 2260, 2280, 22110

M.2 Key: M-Key

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

Dual LAN with 10GBase-T with Intel® X722 + X557

1 VGA port

Optimized Servers

[SYS-2029P-C1RT \(/en/products/system/2u/2029/sys-2029p-c1rt.cfm\)](/en/products/system/2u/2029/sys-2029p-c1rt.cfm)

[SYS-6029P-TRT \(/en/products/system/2u/6029/sys-6029p-trt.cfm\)](/en/products/system/2u/6029/sys-6029p-trt.cfm)

[SYS-7049P-TRT \(/en/products/system/4u/7049/sys-7049p-trt.cfm\)](/en/products/system/4u/7049/sys-7049p-trt.cfm)

Specifications

Product SKUs

MBD-X11DPI-NT

Physical Stats

Form Factor

E-ATX

Dimension

12" x 13" (30.48cm x 33.02cm)

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, Dual UPI up to 10.4 GT/s

Core

Up to 28 cores

Note

BIOS version 3.0a or above is required to support 2nd Generation Intel Xeon Scalable Processors-SP

System Memory

Memory Capacity

16 DIMM slots

Up to 2TB Intel® Optane™ Persistent Memory 200 Series, DDR4-2666MHz

Up to 4TB 3DS ECC LRDIMM, DDR4-2933MHz; Up to 4TB 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: 128GB

RDIMM: 64GB

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 with Intel® X722 + X557

Input / Output

SATA

14 SATA3 (6Gbps) port(s)

USB

4 USB 2.0 port(s) (2 rear; 2 via header)

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 port(s)

Serial Port

2 COM Port(s) (1 header; 1 rear)

DOM

2 SuperDOM (./SATADOM/). (Disk on Module) ports

TPM

1 TPM Header

Expansion Slots

PCIe

4 PCIe 3.0 x16,

2 PCIe 3.0 x8

M.2

M.2 Interface: PCIe 3.0 x4

Form Factor: 22110, 2280, 2260

Key: M-Key

System BIOS

BIOS Type

AMI UEFI

Management

Software

SuperDoctor® 5, [SUM \(./solutions/SMS_SUM.cfm\)](/solutions/SMS_SUM.cfm), KVM withdedicated LAN, [SPM \(./solutions/SMS_SPM.cfm\)](/solutions/SMS_SPM.cfm), Intel® NodeManager, [SSM \(./solutions/SMS_SSM.cfm\)](/solutions/SMS_SSM.cfm), [IPMI2.0](/solutions/IPMI.cfm)[\(/solutions/IPMI.cfm\)](/solutions/IPMI.cfm), Watchdog

PC Health Monitoring

Voltage

Monitors CPU voltages, 3.3V standby, +5V standby, +5V, +3.3V, +12V

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

PECI

FAN

8x 4-pin fan headers (up to 8 fans)

PWM fan 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 header, Chassis intrusion detection, ATX Power connector, ACPI power management, SDDC, NCSI header

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)

I/O Cables

Part Number CBL-0044L • [eStore](#)
(<https://store.supermicro.com/supermicro-ro-sata-flat-straight-straight-57-5cm-cable-cbl-0044l.html>).

Qty 2
Description 57.5 cm SATA FLAT S-S PBF

I/O Shield

Part Number MCP-260-00042-0N • [eStore](#)
(<https://store.supermicro.com/mcp-260-00042-0n.html>).

Qty 1
Description STD I/O SHIELD

Standard Parts (Retail Package)

I/O Cables

Part Number	CBL-0044L • eStore (https://store.supermicro.com/supermicro-ro-sata-flat-straight-straight-57-5cm-cable-cbl-0044l.html).	CBL-0476L • eStore (https://store.supermicro.com/supermicro-internal-minisas-to-4-sata-30-35-45-55cm-with-sideband-55cm-cable-cbl-0476l.html).
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Qty	2	1
Description	STD I/O SHIELD	57.5 cm SATA FLAT S-S PBF

I/O Shield

Part Number MCP-260-00042-0N • [eStore](#)
(<https://store.supermicro.com/mcp-260-00042-0n.html>).

Qty 1
Description -

Quick Reference Guide

Part Number MNL-1773-QRG
Qty 1
Description IPASS to 4 SATA cable

Optional Parts

TPM security module (optional, not included)

Part Number	AOM-TPM-9671V-S (/products/accessories/addon/AOM-TPM-9671V-S_H-S.php).	AOM-TPM-9670V-S (/products/accessories/addon/AOM-TPM-9670V-S_H-S.php).
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Qty	--	--
Description	SPI capable TPM 1.2 with Infineon 9670 controller with vertical form factor	SPI capable TPM 2.0 with Infineon 9670 controller with vertical form factor

