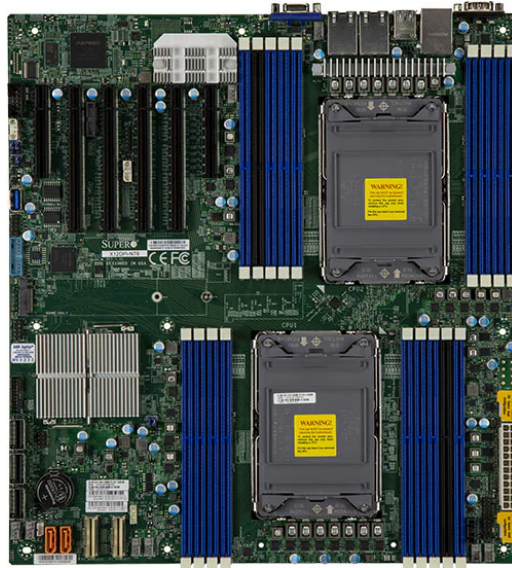


# X12DPi-NT6

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## Key Features

3rd Gen Intel® Xeon® Scalable processors

Dual Socket LGA-4189 (Socket P+) supported, CPU TDP supports Up to 270W TDP, 3 UPI up to 11.2 GT/s

Intel® C621A

Up to 4TB RDIMM, DDR4-3200MHz; Up to 4TB 3DS ECC LRDIMM, DDR4-3200MHz

Up to 4TB Intel® Optane™ Persistent Memory 200 Series, DDR4-3200MHz, in 18 DIMM slots P1-DIMMB2 and P2-DIMMB2 are reserved for Intel Optane Persistent Memory 200 series only.

2 PCIe 4.0 x8,

4 PCIe 4.0 x16,

2 PCIe 4.0 NVMe x8 Internal Port(s)

**M.2 Interface:** 1 PCIe 4.0 x4

**M.2 Form Factor:** 2280/22110

**M.2 Key:** M-Key

Intel® C621A controller for 14 SATA3 (6 Gbps) ports; RAID 0,1,5,10

Dual LAN with 10GBase-T with Intel® X550

2 VGA (1 rear bezel, 1 front panel) ports

## Optimized Servers

[SYS-220P-C9RT](#)

[SYS-620P-TRT](#)

[SYS-740P-TRT](#)

[SSG-620P-ACR12H](#)

[SSG-620P-ACR12L](#)

[SSG-620P-ACR16H](#)

[SSG-620P-ACR16L](#)

[SSG-640P-E1CR24L](#)

[SSG-640P-E1CR24H](#)

[SSG-640P-E1CR36L](#)

[SSG-640P-E1CR36H](#)

## Specifications

**Product SKUs****MBD-X12DPI-NT6****Physical Stats****Form Factor**

E-ATX

**Dimension**

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

**Processor****CPU**

3rd Gen Intel® Xeon® Scalable processors

Dual Socket LGA-4189 (Socket P+) supported, CPU TDP supports Up to 270W TDP, 3 UPI up to 11.2 GT/s

**Core**

Up to 40 cores

**System Memory****Memory Capacity**

18 DIMM slots

Up to 4TB Intel® Optane™ Persistent Memory 200 Series, DDR4-3200MHz

Up to 4TB 3DS ECC LRDIMM, DDR4-3200MHz; Up to 4TB ECC RDIMM, DDR4-3200MHz

P1-DIMMB2 and P2-DIMMB2 are reserved for Intel Optane Persistent Memory 200 Series only.

**Memory Type**

3200/2933/2666 MT/s ECC DDR4 LRDIMM (3DS), RDIMM

**DIMM Sizes**

LRDIMM: 256GB

RDIMM: 256GB

**Memory Voltage**

1.2V

**Error Detection**

Corrects single-bit errors

Detects double-bit errors (using ECC memory)

**On-Board Devices****Chipset**

Intel® C621A

**SATA**

Intel® C621A controller for 14 SATA3 (6 Gbps) ports; RAID 0,1,5,10

**IPMI**

ASPEED AST2600 BMC

**Network Controllers**

Dual LAN with 10GBase-T with Intel® X550

**Input / Output****SATA**

14 SATA3 (6Gbps) port(s)

**LAN**

2 RJ45 10 Gigabit Ethernet LAN ports

**USB**

7 USB 3.2 Gen1 port(s) (2 via header; 4 rear; 1 type A)

2 USB 2.0 port(s) (2 via header)

**Video Output**

2 VGA (1 rear bezel, 1 front panel) port(s)

**Serial Port**

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

**TPM**

1 TPM Header

**Expansion Slots****PCIe**

4 PCIe 4.0 x16,

2 PCIe 4.0 x8

**M.2**

M.2 Interface: 1 PCIe 4.0 x4

Form Factor: 2280/22110

Key: M-Key

**System BIOS****BIOS Type**

AMI UEFI

**Management****Software**[Redfish API](#), [Supermicro Server Manager \(SSM\)](#),[Supermicro Power Manager \(SPM\)](#), [Supermicro Update](#)[Manager \(SUM\)](#), [SuperDoctor® 5](#), [Super Diagnostics Offline](#)[, KVM with dedicated LAN](#), [IPMI 2.0](#)**System Management Software**

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

**Security****Hardware**

Trusted Platform Module (TPM) 2.0

**PC Health Monitoring****Voltage**

VBAT, System temperature, PCH temperature, Monitors CPU voltages, Memory temperature, CPU temperature, Chassis intrusion header, 3.3V standby, +5V standby, +5V, +3.3V, +12V, VRM temperature, Memory Voltages, LAN temperature, 8 -fan status

**LED**

UID/Remote UID

Power LED

BMC/IPMI Heartbeat LED

**FAN**

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

PWM fan speed control

**Other Features**

WOL, UID, RoHS, Node Manager Support, Dual Cooling Zones, CPU thermal trip support for processor protection, Control of power-on for recovery from AC power loss, Chassis intrusion header, ATX Power connector, ACPI power management, SDDC, RoT, 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)

**CPU carrier**

Part Number	SKT-1205L-P4IC-FXC
Qty	2
Description	CPU carrier for 3rd Gen Intel Xeon Scalable Processors

**I/O Cables**

Part Number	CBL-0044L • <a href="#">eStore</a>
Qty	2
Description	57.5 cm SATA FLAT S-S PBF

**I/O Shield**

Part Number	MCP-260-00042-0N • <a href="#">eStore</a>
Qty	1
Description	STD I/O SHIELD

**Standard Parts (Retail Package)****CPU carrier**

Part Number	SKT-1205L-P4IC-FXC
Qty	2
Description	CPU carrier for 3rd Gen Intel Xeon Scalable Processors

**I/O Cables**

Part Number	CBL-0476L • <a href="#">eStore</a>	CBL-0044L • <a href="#">eStore</a>
Qty	1	2
Description	IPASS to 4 SATA cable	57.5 cm SATA FLAT S-S PBF

**I/O Shield**

Part Number	MCP-260-00042-0N • <a href="#">eStore</a>
Qty	1
Description	STD I/O SHIELD

**Quick Reference Guide**

Part Number	MNL-2233-QRG
Qty	1
Description	X12DPi-N(T)6 Quick Reference Guide

**Optional Parts****TPM security module (optional, not included)**

Part Number	AOM-TPM-9670V	AOM-TPM-9670H	AOM-TPM-9671H	AOM-TPM-9671V
Qty	1	1	1	1
Description	SPI capable TPM 2.0 with Infineon 9670 controller with vertical form factor	SPI capable TPM 2.0 with Infineon 9670 controller with horizontal form factor	SPI capable TPM 1.2 with Infineon 9670 controller with horizontal form factor	SPI capable TPM 1.2 with Infineon 9670 controller with vertical form factor

