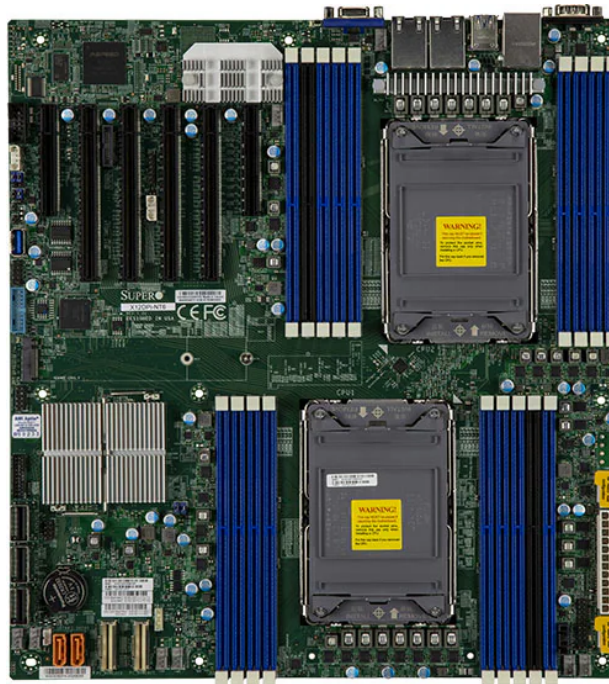


X12DPi-NT6



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

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

3200/2933/2666MHz 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

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

SuperDoctor® 5, SUM, KVM with
dedicated LAN, SPM, Intel® Node
Manager, SSM, IPMI2.0, Watchdog

System Management

Software

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

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

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

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 • eStore |
| Qty | 2 |
| Description | 57.5 cm SATA FLAT S-S PBF |

I/O Shield

| | |
|-------------|---|
| Part Number | MCP-260-00042-0N • eStore |
| 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-0044L • eStore | CBL-0476L • eStore |
| Qty | 2 | 1 |
| Description | 57.5 cm SATA FLAT S-S PBF | IPASS to 4 SATA cable |

I/O Shield

| | |
|-------------|---|
| Part Number | MCP-260-00042-0N • eStore |
| 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-9671H | AOM-TPM-9671V | AOM-TPM-9670V | AOM-TPM-9670H |
| Qty | 1 | 1 | 1 | 1 |
| Description | 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 | 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 |
