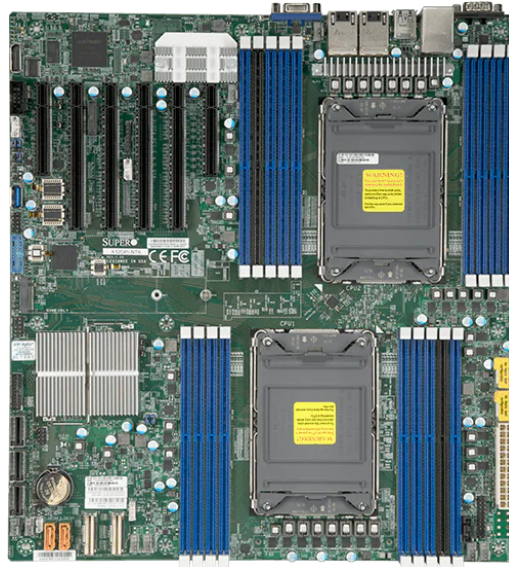


X12DPi-NT6



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 PCI-E 4.0 x8,

4 PCI-E 4.0 x16,

2 PCI-E 4.0 NVMe x8 Internal Port(s)

M.2 Interface: 1 PCI-E 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**

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

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**PCI-E**

4 PCI-E 4.0 x16,

2 PCI-E 4.0 x8

M.2

M.2 Interface: 1 PCI-E 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® NodeManager, 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**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

Chassis (Optimized for X12DPi-NT6)

SKU

Embedded
Compact
1U

2U

SCLA26E1C4-
R609LP, (Heatsink1
 :SNK-P0078PC
 front/CPU1, Heatsink2
 :SNK-P0078P rear/CPU2),
SCLA25TQC-R609LP
 (Heatsink1 :SNK-P0078PC
 front/CPU1, Heatsink2
 :SNK-P0078P rear/CPU2),
 ● SC825BTQC-
R1K23LPB, (Heatsink1
 :SNK-P0078PC
 front/CPU1, Heatsink2
 :SNK-P0078P rear/CPU2),
 ● SC213BAC8-
R1K23LPB, (Heatsink1
 :SNK-P0078PC
 front/CPU1, Heatsink2
 :SNK-P0078P rear/CPU2),
 ● SC826BAC12-
R1K23LPB, (Heatsink1
 :SNK-P0078PC
 front/CPU1, Heatsink2
 :SNK-P0078P rear/CPU2),
 ● SC829HAC12-
R1K62LPB, (Heatsink1
 :SNK-P0077PW
 front/CPU1, Heatsink2
 :SNK-P0078AP4
 rear/CPU2),
 Heatsink:SNK-P0078PC,
 Heatsink:SNK-P0078P,

3U

Mid/Mini-
Tower

4U/Tower

● SC745BAC-
R1K23B, (Heatsink1
 :SNK-P0078P), ●
SC846BE1C8-
R1K23B4, (Heatsink1
 :SNK-P0078P), ●
SC847BE1C12-
R1K68LPB4, (Heatsink1
 :SNK-P0078PC
 front/CPU1, Heatsink2
 :SNK-P0078P rear/CPU2),
 Heatsink:SNK-P0078P,

1. ● = Most optimized Chassis for SuperServer Configuration
2. Blue color = Compatible
3. Green color = Global SKU & Compatible
4. Red dot & green color = Optimized + Global SKU

Servers (Optimized for X12DPi-NT6)

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
