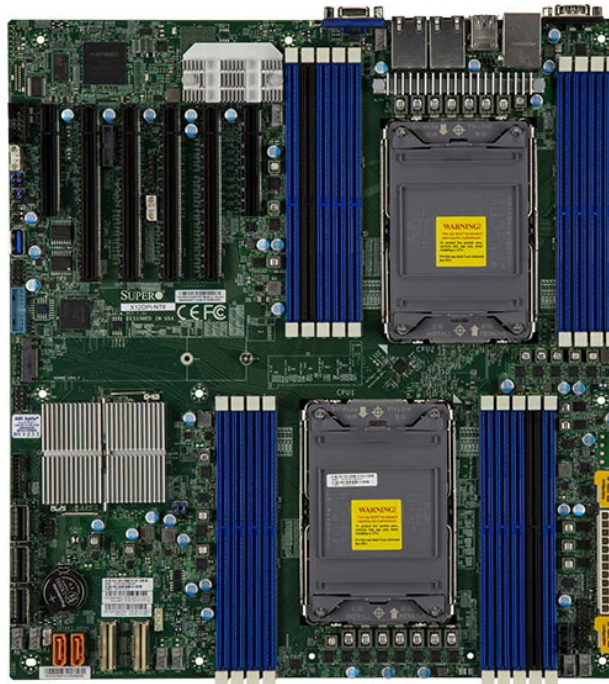


X12DPi-N6



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 3DS ECC 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 Intel® i350 Gigabit Ethernet Controller

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

Specifications

Product SKUs

MBD-X12DPi-N6

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 3DS 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 (3DS)

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

SuperDoctor 5, IPMI (Intelligent Platform
Management Interface) v1.5 / 2.0 with KVM
support, IPMICFG, IPMIView for
Linux/Windows, SMCIPMITool, SSM, SUM,
SPM

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

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

Network Controllers

Dual LAN with Intel® i350 Gigabit Ethernet Controller

Input / Output

SATA

14 SATA3 (6Gbps) port(s)

LAN

2 RJ45 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

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
