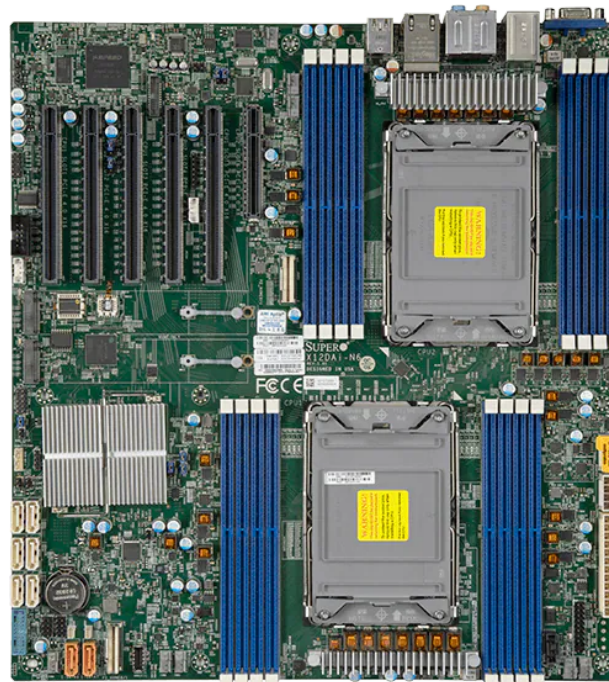


X12DAI-N6



Workstation

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, DDR4-3200MHz, in 16 DIMM slots;

5 PCIe 4.0 x16,

1 PCIe 4.0 x8,

4 PCIe 4.0 NVMe x4 Internal Port(s)

M.2 Interface: 2 PCIe 4.0 x4, RAID 0 & 1

M.2 Form Factor: 2280/22110

M.2 Key: M-Key

Intel® C621A controller for 8 SATA3 (6 Gbps) ports; RAID 0,1,5,10

Dual LAN with Intel® i210 Gigabit Ethernet Controller

1 VGA D-Sub Connector port

Specifications

Product SKUs

MBD-X12DAI-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

System Memory

Memory Capacity

16 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

Memory Type

3200/2933/2666MHz ECC DDR4 LRDIMM

(3DS), RDIMM (3DS)

DIMM Sizes

8GB, 16GB, 32GB, 64GB, 128GB, 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 8 SATA3 (6

Gbps) ports; RAID 0,1,5,10

IPMI

ASPEED AST2600 BMC

Audio

1x 7.1 HD Audio port(s) 7.1 HD Audio

Graphics

1 ASPEED AST2600 BMC port(s)

Expansion Slots

PCIe

1 PCIe 4.0 x8,

5 PCIe 4.0 x16

M.2

M.2 Interface: 2 PCIe 4.0 x4, RAID 0 & 1

Form Factor: 2280/22110

Key: M-Key

System BIOS

BIOS Type

AMI UEFI

Management

Software

SuperDoctor® 5, [SUM](#), [SPM](#), Intel® Node

Manager, [SSM](#), Watchdog, IPMI

(Intelligent Platform Management

Interface) v2.0 with KVM support

PC Health Monitoring

Voltage

VBAT, System temperature, PCH

temperature, Monitors CPU voltages,

Memory temperature, CPU temperature,

CPU, +5V standby, +5V, +3.3V, +12V, VRM

temperature, Memory Voltages, 8 -fan

status

LED

Power LED

BMC/IPMI Heartbeat LED

CPU / System Overheat LED

Temperature

Monitoring for CPU and chassis

environment

CPU thermal trip support

FAN

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

PWM fan speed control

Status monitoring for speed control

8x fans with tachometer monitoring

Other Features

WOL, UID, RoHS, Node Manager Support,

CPU thermal trip support for processor

protection, Chassis intrusion header,

Chassis intrusion detection, ATX Power

connector, ACPI power management, RoT,

NCSI header

Operating Environment

Network Controllers

Dual LAN with Intel® i210 Gigabit Ethernet Controller

Input / Output

USB

6 USB 3.2 Gen1 port(s) (2 via header; 4 rear)

2 USB 3.2 Gen2 port(s) (1 via header; 1 rear type A)

Video Output

1 VGA D-Sub Connector port(s)

Serial Port

1 COM Port(s) (1 header)

DOM

2 SuperDOM (Disk on Module) power connector

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-260-00115-0N • 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](#)

Qty 2

Description 57.5 cm SATA FLAT S-S PBF

I/O Shield

Part Number MCP-260-00115-0N • [eStore](#)

Qty 1

Description STD I/O SHIELD

Quick Reference Guide

Part Number MNL-2239-QRG

Qty 1

Description X12DAI-N6 Quick Reference Guide

Optional Parts

TPM security module (optional, not included)

Part Number	AOM-TPM-9670V	AOM-TPM-9670H
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Qty	1	1
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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
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U.2 NVMe Cable

Part Number CBL-SAST-0953-1

Qty 2

Description Slimline x8 to PCIe 2x SFF-8639 & Power
