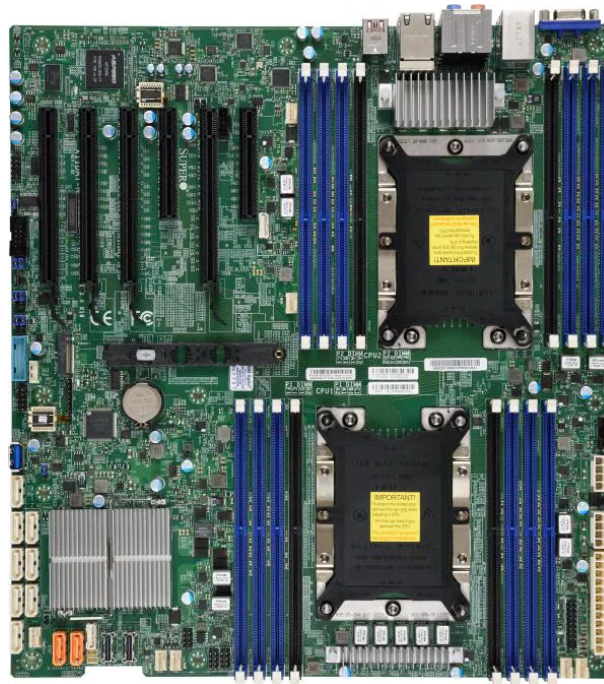


X11DAi-N



Workstation

Key Features

2nd Gen Intel® Xeon® Scalable Processors and Intel® Xeon® Scalable Processors

Dual Socket LGA-3647 (Socket P) supported, CPU TDP support Up to 205W TDP, 2 UPI up to 10.4 GT/s

Intel® C621

Up to 4TB 3DS ECC RDIMM, DDR4-2933MHz; Up to 4TB 3DS ECC LRDIMM, DDR4-2933MHz, in 16 DIMM slots;

Up to 2TB Intel® Optane™ DC Persistent Memory in memory mode (Cascade Lake only).

4 PCIe 3.0 x16,

2 PCIe 3.0 x8,

2 PCIe 3.0 NVMe x4 Internal Port(s)

M.2 Interface: PCIe 3.0 x4

M.2 Form Factor: 2260, 2280, 22110

M.2 Key: M-Key

Intel® C621 controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10

Dual LAN with GbE from C621

1 VGA port

Specifications

Product SKUs

MBD-X11DAI-N

Physical Stats

Form Factor

E-ATX

Dimension

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

Processor

CPU

2nd Gen Intel® Xeon® Scalable Processors and Intel® Xeon® Scalable Processors Dual Socket LGA-3647 (Socket P) supported, CPU TDP supports Up to 205W TDP, Dual UPI up to 10.4 GT/s

System Memory

Memory Capacity

16 DIMM slots
Up to 4TB 3DS ECC LRDIMM, DDR4-2933MHz; Up to 4TB 3DS ECC RDIMM, DDR4-2933MHz
Up to 2TB Intel® Optane™ DC Persistent Memory in memory mode (Cascade Lake only).

Memory Type

2933/2666/2400/2133MHz ECC DDR4 LRDIMM (3DS), RDIMM (3DS)

DIMM Sizes

LRDIMM: 64GB, 128GB
RDIMM: 64GB, 128GB

Memory Voltage

1.2V

Error Detection

Corrects single-bit errors
Detects double-bit errors (using ECC memory)

On-Board Devices

Chipset

Intel® C621

SATA

Intel® C621 controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10

IPMI

ASPEED AST2500

Audio

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

Expansion Slots

PCIe

4 PCIe 3.0 x16,
2 PCIe 3.0 x8

M.2

M.2 Interface: PCIe 3.0 x4
Form Factor: 22110, 2280, 2260
Key: M-Key

System BIOS

BIOS Type

32MB AMI SPI Flash ROM

Management

Software

SuperDoctor® 5, NMI, [SUM](#), [SPM](#), Intel® Node Manager, [SSM](#), [IPMI2.0](#), Watchdog

PC Health Monitoring

Voltage

Monitors CPU voltages, +5V standby, +5V, +3.3V, +12V, Memory Voltages

LED

Power LED
BMC/IPMI Heartbeat LED
Suspend static indicator LED
CPU / System Overheat LED

Temperature

Monitoring for CPU and chassis environment
CPU thermal trip support

FAN

7x 4-pin fan headers (up to 7 fans)
PWM fan speed control
Status monitoring for speed control
7 fans with tachometer status monitoring

Other Features

RoHS
Node Manager Support
CPU thermal trip support for processor protection
Chassis intrusion detection

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)

Graphics

1 ASPEED AST2500 BMC port(s)

Network Controllers

Dual LAN with GbE from C621

Input / Output**USB**

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

4 USB 3.2 Gen2 port(s) (1 rear type C; 2 rear; 1 rear type A)

Video Output

1 VGA port(s)

Serial Port

1 COM Port(s) (1 header)

DOM

2 SuperDOM (Disk on Module) ports

TPM

1 TPM Header

Operating Relative**Humidity Range**

8% - 90% (non-condensing)

Non Operating Relative**Humidity Range**

5% - 95% (non-condensing)

Parts List

Standard Parts (Bulk Package)

I/O Shield

Part Number	MCP-260-00115-0N • eStore
Qty	1
Description	STD size I/O Shield for X11DAi-N with EMI Gasket and front metal,RoHS/REACH

IO Cable

Part Number	CBL-0044L • eStore
Qty	2
Description	SATA CABLE 61CM FLAT S-S PBF

X11DAi-N

Part Number	MBD-X11DAi-N
Qty	1
Description	Motherboard

Standard Parts (Retail Package)

IO Cable

Part Number	CBL-0044L • eStore
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Qty 2
Description STD size I/O Shield for X11DAi-N with EMI Gasket and front metal,RoHS/REACH

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

Qty 1
Description Quick Reference Guide

Quick Reference Guide

Part Number MNL-1957-QRG

Qty 1
Description -

X11DAi-N

Part Number MBD-X11DAi-N

Qty 1
Description SATA CABLE 61CM FLAT S-S PBF

Optional Parts

TPM security module (optional, not included)

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