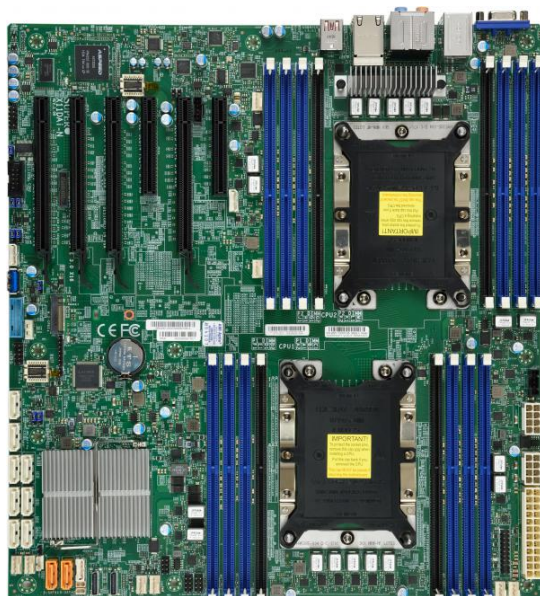




Workstation

Key Features

1. 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
2. Intel® C621
3. 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. 4 PCI-E 3.0 x16,
2 PCI-E 3.0 x8
M.2 Interface: PCI-E 3.0 x4
M.2 Form Factor: 2260, 2280, 22110
M.2 Key: M-Key,
2 PCI-E 3.0 NVMe x4 Internal Port(s)
5. 1 VGA port
6. Intel® C621 controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10
7. Dual LAN with GbE from C621

Links & Resources

[Tested Memory List](#)

[Tested HDD / SSD List](#)

[Tested M.2 List](#)

[Tested AOC List](#)

[Motherboard Manual](#)

[Quick Reference Guide](#)

[Update Your BIOS](#)

[BMC/IPMI Firmware](#)

[Download the Latest Drivers and Utilities](#)

[Download Drivers CD](#)

[OS Compatibility](#)

[Optimization](#)



Specifications

Product SKUs

MBD-X11DAi-N ■ X11DAi-N

Physical Stats

Form Factor ■ E-ATX

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

Processor/Cache

CPU ■ 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

Note ■ BIOS version 3.2 or above is required to support 2nd Gen Intel® Xeon® Scalable processors (codenamed Cascade Lake-R)

System Memory

Memory Capacity ■ 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).

Memory Type ■ 2933/2666/2400/2133MHz ECC DDR4 RDIMM, LRDIMM

DIMM Sizes ■ RDIMM: 64GB, 128GB ■ LRDIMM: 64GB, 128GB ■ 3DS LRDIMM: 128GB, 256GB

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

Network Controllers ■ Dual LAN with GbE from C621

Audio ■ 7.1 HD Audio

Graphics ■ Aspeed AST2500 BMC

Input / Output

USB ■ 4 USB 3.0 ports (4 rear)2 USB 3.1 ports (2 rears

Video Output ■ 1 VGA port

Serial Port / Header ■ 1 COM Port (1 header)

TPM ■ 1 TPM Header

Expansion Slots

PCI-E ■ 4 PCI-E 3.0 x16, ■ 2 PCI-E 3.0 x8

M.2 ■ M.2 Interface: PCI-E 3.0 x4 ■ Form Factor: 2260, 2280, 22110 ■ Key: M-Key

System BIOS

BIOS Type ■ AMI 32Mb SPI Flash ROM

Management

Software ■ Intel® Node Manager, IPMI2.0, NMI, SPM, SSM, SUM, SuperDoctor® 5, Watchdog

PC Health Monitoring

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

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

Temperature ■ CPU thermal trip support, Monitoring for CPU and chassis environment

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

Other Features ■ Chassis intrusion detection, CPU thermal trip support for processor protection, Node Manager Support, RoHS

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

Parts List (Bulk Package)			
Name	Part Number	Qty	Description
X11DAi-N	MBD-X11DAi-N	1	Motherboard
IO Cable	CBL-0044L	2	SATA CABLE 61CM FLAT S-S PBF
I/O Shield	MCP-260-00115-0N	1	STD size I/O Shield for X11DAi-N with EMI Gasket and front metal,RoHS/REACH

Parts List (Retail Package)			
Name	Part Number	Qty	Description
X11DAi-N	MBD-X11DAi-N	1	
IO Cable	CBL-0044L	2	SATA CABLE 61CM FLAT S-S PBF
IO shield	MCP-260-00115-0N	1	STD size I/O Shield for X11DAi-N with EMI Gasket and front metal,RoHS/REACH
Quick Reference Guide	MNL-1957-QRG	1	Quick Reference Guide

Optional Parts List			
Name	Part Number	Qty	Description
TPM security module (optional, not included)	AOM-TPM-9670V	--	SPI capable TPM 2.0 with Infineon 9670 controller with vertical form factor
TPM security module (optional, not included)	AOM-TPM-9670H		SPI capable TPM 2.0 with Infineon 9670 controller with horizontal form factor
TPM security module (optional, not included)	AOM-TPM-9671V		SPI capable TPM 1.2 with Infineon 9670 controller with vertical form factor
TPM security module (optional, not included)	AOM-TPM-9671H		SPI capable TPM 1.2 with Infineon 9670 controller with horizontal form factor

Chassis (Optimized for X11DAi-N)

Embedded Compact	1U	2U	3U	Mid / Mini-Tower	4U / Tower
				● SC732D4-903B ● SC732D3-1200B 4U Heatsink:SNK-P0070APS4	● SC743AC-1200B-SQ 4U Heatsink:SNK-P0070APS4

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

Server (Optimized for X11DAi-N)

Server Name
<u>SYS-7039A-I</u>
<u>SYS-7049A-T</u>