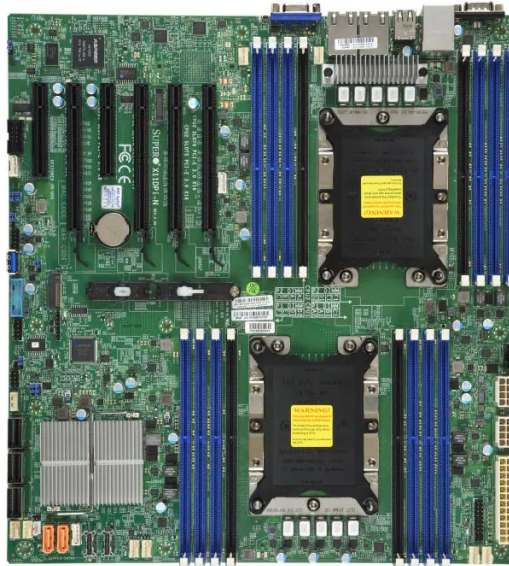


X11DPI-N



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

Or 2TB Intel© PMem, DDR4-2666MHz, 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 14 SATA3 (6 Gbps) ports; RAID 0,1,5,10

Dual LAN with 1GbE LAN with Intel® X722

1 VGA port

Optimized Servers

[SYS-2029P-C1R](#)

[SYS-6029P-TR](#)

[SYS-7049P-TR](#)

Specifications

Product SKUs**MBD-X11DPI-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

Core

Up to 28 cores

Note

BIOS version 3.0a or above is required to support 2nd Generation Intel Xeon Scalable Processors-SP

System Memory**Memory Capacity**

16 DIMM slots

Up to 2TB Intel® Optane™ Persistent Memory 200 Series, DDR4-2666MHz

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

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

DIMM Sizes

LRDIMM: 128GB

RDIMM: 64GB

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 14 SATA3 (6 Gbps) ports; RAID 0,1,5,10

IPMI

ASPEED AST2500

Graphics

1 ASPEED AST2500 BMC port(s)

Network Controllers

Dual LAN with 1GbE LAN with Intel® X722

Input / Output**SATA**

14 SATA3 (6Gbps) port(s)

LAN

2 RJ45 Gigabit Ethernet LAN ports

USB

4 USB 2.0 port(s) (2 rear; 2 via header)

3 USB 3.2 Gen1 port(s) (2 via header; 1 type A)

2 USB 3.0 port(s) (2 rear)

Video Output

1 VGA port(s)

Serial Port

2 COM Port(s) (1 header; 1 rear)

DOM

2 SuperDOM (Disk on Module) ports

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**

AMI UEFI

Management**Software**SuperDoctor® 5, SUM, KVM with dedicated LAN, SPM, Intel® Node Manager, SSM, IPMI2.0, Watchdog**PC Health Monitoring****Voltage**

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

LED

UID/Remote UID

Power LED

BMC/IPMI Heartbeat LED

CPU / System Overheat 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

Other Features

UID, RoHS, Node Manager Support, CPU thermal trip support for processor protection, Control of power-on for recovery from AC power loss, Chassis intrusion header, Chassis intrusion detection, ATX Power connector, ACPI power management, SDDC, 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)

TPM

1 TPM Header

Parts List

Standard Parts (Bulk Package)

I/O CablesPart Number CBL-0044L • [eStore](#)

Qty 2

Description 57.5 cm SATA FLAT S-S PBF

I/O ShieldPart Number MCP-260-00042-0N •
[eStore](#)

Qty 1

Description STD I/O SHIELD

Standard Parts (Retail Package)

I/O CablesPart 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 ShieldPart Number MCP-260-00042-0N •
[eStore](#)

Qty 1

Description STD I/O SHIELD

X11DPI-N

Part Number MBD-X11DPI-N

Qty 1

Description Motherboard

Optional Parts

TPM security module (optional, not included)Part Number [AOM-TPM-9671V-S](#) [AOM-TPM-9670V-S](#)

Qty -- --

Description 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