

X11DPH-i



7 PCI-E 3.0 Slots

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, 3 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 DCPMM, DDR4-2666MHz, in 16 DIMM slots;

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

3 PCIe 3.0 x16,

4 PCIe 3.0 x8

M.2 Interface: 2 PCIe 3.0 x4

M.2 Form Factor: 2242/2260/2280/22110

M.2 Key: M-Key (RAID 0,1 support)

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

Dual LAN with 1GbE with Intel® X722 + Marvell 88E1512

1 VGA port

Specifications

Product SKUs

MBD-X11DPH-i

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, 3 UPI up to 10.4 GT/s

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

Memory Type

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

DIMM Sizes

LRDIMM: 64GB

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

IPMI

ASPEED AST2500

Network Controllers

Dual LAN with 1GbE with Intel® X722 + Marvell 88E1512

Input / Output

SATA

10 SATA3 (6Gbps) port(s)

LAN

2 1GbE LAN ports

USB

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

Video Output

1 VGA port(s)

Serial Port

1 COM Port(s) (1 rear)

DOM

2 SATA [DOM \(/SATADOM/\)](#) (Disk on Module) power connector support

TPM

1 TPM Header

Expansion Slots

PCIe

3 PCIe 3.0 x16,

4 PCIe 3.0 x8

M.2

M.2 Interface: 2 PCIe 3.0 x4, RAID 0,1

Form Factor: 2242/2260/2280/22110

Key: M-Key

System BIOS

BIOS Type

AMI UEFI

Management

Software

SuperDoctor® 5, [SUM \(/solutions/SMS_SUM.cfm\)](#), KVM with dedicated LAN, [SPM \(/solutions/SMS_SPM.cfm\)](#), Intel® Node Manager, [SSM \(/solutions/SMS_SSM.cfm\)](#), [IPMI2.0 \(/solutions/IPMI.cfm\)](#), Watchdog

PC Health Monitoring

Voltage

Monitors CPU voltages, Chipset Voltage, 1.05 (PCH), +5V standby, +5V, +3.3V, +12V, +1.8V, Memory Voltages

LED

UID/Remote UID

Power LED

BMC/IPMI Heartbeat LED

Temperature

Monitoring for CPU and chassis environment

CPU thermal trip support

Thermal Control for 8 Fan Connectors

FAN

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

PWM fan speed control

Other Features

WOL, UID, RoHS, CPU thermal trip support for processor protection, Chassis intrusion header, Chassis intrusion detection, ATX Power connector, ACPI power management, 8-pin 12v DC power connector, 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)

Parts List

Standard Parts (Bulk Package)

I/O Cables

Part Number CBL-0044L • [eStore](https://store.supermicro.com/supermicro.com/supermicro-sata-flat-straight-straight-57-5cm-cable-cbl-0044l.html)
 (<https://store.supermicro.com/supermicro-sata-flat-straight-straight-57-5cm-cable-cbl-0044l.html>).

Qty 2
 Description 57.5 cm SATA FLAT S-S PBF

I/O Shield

Part Number MCP-260-00042-0N • [eStore](https://store.supermicro.com/mcp-260-00042-0n.html)
 (<https://store.supermicro.com/mcp-260-00042-0n.html>).

Qty 1
 Description STD I/O SHIELD

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

[Global SKU \(/en/products/SMC_global_skus\)](#)