# 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 (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, KVM with dedicated LAN, SPM, Intel® Node Manager, SSM, IPMI2.0, 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 • *e*Store

| | |
|---|---|
| Qty | 2 |
| Description | 57.5 cm SATA FLAT S-S PBF |

**I/O Shield**

| | |
|---|---|
| Part Number | MCP-260-00042-0N • |
| | *e*Store |
| 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 |