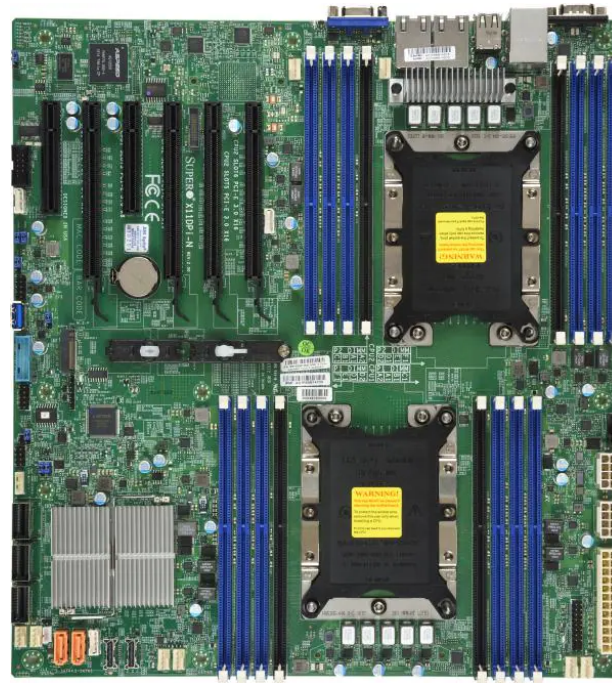


# X11DPI-N

---



## 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

## 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

2933/2666/2400/2133MHz 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

## 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)

**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

**TPM**

1 TPM Header

---

**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 • <a href="#">eStore</a>
Qty	2
Description	57.5 cm SATA FLAT S-S PBF

---

**I/O Shield**

Part Number	MCP-260-00042-0N • <a href="#">eStore</a>
Qty	1
Description	STD I/O SHIELD

---

### Standard Parts (Retail Package)

**I/O Cables**

Part Number	CBL-0044L • <a href="#">eStore</a>	CBL-0476L • <a href="#">eStore</a>
Qty	2	1
Description	57.5 cm SATA FLAT S-S PBF	IPASS to 4 SATA cable

---

#### I/O Shield

Part Number	MCP-260-00042-0N • <a href="#">eStore</a>
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	<u><a href="#">AOM-TPM-9671V-S</a></u>	<u><a href="#">AOM-TPM-9670V-S</a></u>
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

---