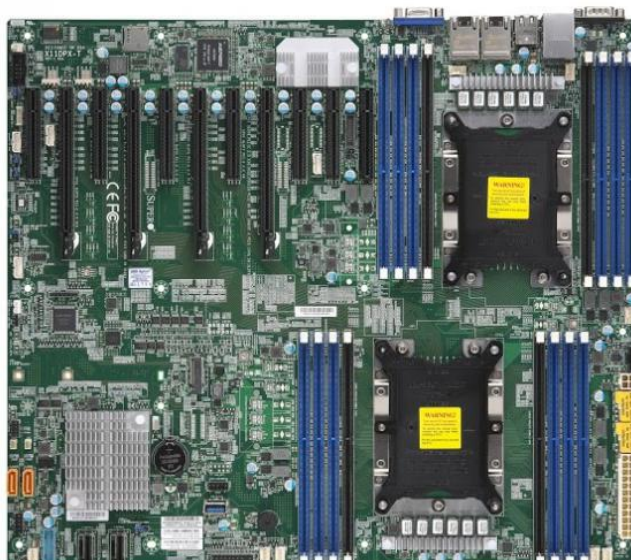


## X11DPX-T

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**11 PCI-E Slots**  
**3 UPI**  
**Dual 10GbE**

### 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, 3 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 Or 2TB DCPMM, DDR4-2666MHz, in 16 DIMM slots;  
Up to 2TB Intel® Optane™ DC Persistent Memory in memory mode (Cascade Lake only).
4. 2 PCI-E 3.0 x16,  
8 PCI-E 3.0 x8,  
1 PCI-E 3.0 x4 (in x8 slot) Or 4 PCI-E 3.0 x16 and 4 PCI-E 3.0 x8 and 1 PCI-E 3.0 x4 (in x8 slot)  
**M.2 Interface:** 1 PCI-E 3.0 x4  
**M.2 Form Factor:** 2280, 22110  
**M.2 Key:** M-Key
5. Dual LAN with Intel® X550 10GBase-T Ethernet Controller
6. Intel® C621 controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10
7. 1 VGA D-Sub Connector port

# Specifications

## Product SKUs

**MBD-X11DPX-T** ■ X11DPX-T

## Physical Stats

**Form Factor** ■ Proprietary

**Dimension** ■ 15.12" x 13.2" (38.4cm x 33.53cm)

## 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

**Core** ■ Up to 28 cores

**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** ■ 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** ■ 64GB  
 ■ LRDIMM: 64GB, 128GB  
 ■ RDIMM: 64GB, 128GB

**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

**Graphics** ■ ASPEED AST2500 BMC

**Network Controllers** ■ Dual LAN with Intel® X550 10GBase-T Ethernet Controller

## Expansion Slots

**PCI-E** ■ 2 PCI-E 3.0 x16,  
 ■ 8 PCI-E 3.0 x8,  
 ■ 1 PCI-E 3.0 x4 (in x8 slot) Or 4 PCI-E 3.0 x16 and 4 PCI-E 3.0 x8 and 1 PCI-E 3.0 x4 (in x8 slot)

**M.2** ■ M.2 Interface: 1 PCI-E 3.0 x4  
 ■ Form Factor: 2280, 22110  
 ■ Key: M-Key

## System BIOS

**BIOS Type** ■ 32MB AMI SPI Flash ROM

**BIOS Features** ■ Plug and Play (PnP)  
 ■ ACPI 1.0 / 2.0 / 3.0 / 4.0  
 ■ USB Keyboard support  
 ■ SMBIOS 2.7.1  
 ■ UEFI 2.3.1

## Management

**Software** ■ SuperDoctor® 5, NMI, [SUM](#), KVM with dedicated LAN, [SPM](#), Intel® Node Manager, [SSM](#), Watchdog, IPMI (Intelligent Platform Management Interface) v2.0 with KVM support

**Power Configurations** ■ ACPI Power Management

## PC Health Monitoring

**Voltage** ■ VBAT, Supports system management utility, HT, Chassis intrusion header, +5V standby, +5V, +3.3V, +12V, +1.8V, 5+1 Phase-switching voltage regulator, 10 -fan status

**LED** ■ UID/Remote UID  
 ■ Suspend static indicator LED  
 ■ CPU / System Overheat LED

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

**FAN** ■ 10x 4-pin fan headers (up to 10 fans)

## 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)

**Input / Output**

<b>SATA</b>	■ 10 SATA3 (6Gbps) port(s)
<b>LAN</b>	■ 2 RJ45 10GBase-T ports
<b>USB</b>	■ 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)
<b>Video Output</b>	■ 1 VGA D-Sub Connector port(s)
<b>Serial Port</b>	■ 2 COM Port(s) (1 header; 1 rear)
<b>DOM</b>	■ 2 SuperDOM (Disk on Module) port with build power
<b>TPM</b>	■ 1 TPM Header

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<b>Operating Relative Humidity Range</b>	■ 8% - 90% (non-condensing)
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<b>Non Operating Relative Humidity Range</b>	■ 5% - 95% (non-condensing)
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## Parts List

Parts List (Bulk Package)			
Name	Part Number	Qty	Description
Motherboard	MBD-X11DPX-T	1	X11DPX-T Motherboard

### Chassis (Optimized for X11DPX-T)

Embedded Compact	1U	2U	3U	Mid/Mini-Tower	4U/Tower
		● <a href="#">SC213XAC-R1K05LP</a>	● <a href="#">SC835XTQ-R982B</a>		<a href="#">SC846XE1C-R1K23B</a> <a href="#">SC842XTQC-R804B</a> SC846XA-R1K23B <a href="#">SC846XE2C-R1K23B</a>

● = Most optimized Chassis for SuperServer Configuration

Blue color = Compatible

Green color = Global SKU & Compatible

Red dot & green color = Optimized + Global SKU

### Server (Optimized for X11DPX-T)

Server Name
<a href="#">SYS-2029P-TXRT</a>
<a href="#">SYS-6039P-TXRT</a>

