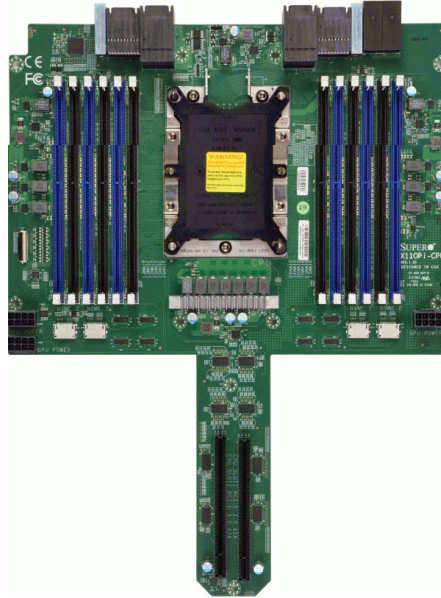


# X110Pi-CPU (For SuperServer Only)

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**MP Solutions**

## Key Features

2nd Gen Intel® Xeon® Scalable Processors and Intel® Xeon® Scalable Processors

Octal 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 3TB 3DS ECC RDIMM, DDR4-2933MHz

Or 3TB DCPMM, DDR4-2666MHz, in 12 DIMM slotsMaximum System Capacity (8 CPU modules, 96 DIMM slots);;

Up to 24TB ECC DDR4 @ 2933 MHz RDIMM/LRDIMM;

,Up to 24TB Intel® Optane™ DC Persistent Memory;

, Up to 36TB combined memory (DDR4and Optane DCPMM).

2 PCIe 3.0 x16

**M.2 Interface:** 2 SATA/PCIe 3.0 x4, RAID 0 & 1

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

(M.2 slots on PCH board)

U.2 Interface: 4 PCIe 3.0 x4,

4 PCIe 3.0 NVMe x4 Internal Port(s)

Intel® C621 controller for 8 SATA3 (6 Gbps) ports; RAID 0,1,5,10

(on Storage board)

Quad LAN with Intel® X550 10GBase-T Ethernet Controller

(on PCH board)

1 VGA D-Sub Connector port,

(on PCH board)

## Optimized Servers

[SYS-7089P-TR4T](#)

## Specifications

**Product SKUs****MBD-X110Pi-CPU**

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**Physical Stats****Form Factor**

Proprietary

**Dimension**11" x 14.33" (27.94cm x 36.4cm)

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**Processor****CPU**

2nd Gen Intel® Xeon® Scalable Processors and Intel® Xeon® Scalable Processors

8 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 3.0 or above is required to support 2nd Gen Intel® Xeon® Scalable processors

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**System Memory****Memory Capacity**

12 DIMM slots

Up to 3TB Intel® Optane™ Persistent Memory 200 Series, DDR4-2666MHz

Up to 3TB 3DS ECC RDIMM, DDR4-2933MHz

Maximum System Capacity (8 CPU modules, 96 DIMM slots):Up to 24TB ECC DDR4 @ 2933 MHz RDIMM/LRDIMM,Up to 24TB Intel® Optane™ DC Persistent Memory, Up to 36TB combined memory (DDR4and Optane DCPMM).

**Memory Type**

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

**DIMM Sizes**

RDIMM: 8GB, 16GB, 32GB, 64GB, 128GB, 256GB

**Memory Voltage**

1.2V

**Error Detection**

Corrects single-bit errors

Detects double-bit errors (using ECC memory)

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**On-Board Devices****Chipset**

Intel® C621

**SATA**

Intel® C621 controller for 8 SATA3 (6 Gbps) ports; RAID 0,1,5,10 (on Storage board)

**IPMI**

ASPEED AST2500

**Graphics**

1 ASPEED AST2500 BMC port(s)

(on PCH board)

**Network Controllers**Quad LAN with Intel® X550 10GBase-T Ethernet Controller, (on PCH board)

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**Input / Output****USB**

1 USB 3.2 Gen1 port(s) (1 type A)

2 USB 2.0 port(s) (2 via header)

(on PCH board)

**Video Output**

1 VGA D-Sub Connector port(s)

**Others**1 (TPM header on PCH board)

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**Expansion Slots****PCIe**

2 PCIe 3.0 x16

**M.2**

M.2 Interface: 2 SATA/PCIe 3.0 x4, RAID 0 &amp; 1

Form Factor: 2260/2280/22110

(M.2 slots on PCH board)

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**System BIOS****BIOS Type**AMI UEFI

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**Management****Software**SuperDoctor® 5, SUM, IPMI (Intelligent Platform Management Interface) v2.0 with KVM support

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**PC Health Monitoring****Voltage**

Monitors CPU voltages, 1.2V (VDIMM), 1.05 (PCH), +5V, +3.3V, +12V, 8 - fan status

**LED**

UID/Remote UID

BMC/IPMI Heartbeat LED

CPU / System Overheat LED

Memory DIMM ECC error LEDs

**Temperature**

Thermal Monitor 2 (TM2) support

**FAN**

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

PWM fan speed control

8x fans with tachometer monitoring

**Other Features**

UID

SDDC

RoHS, Halogen Free

4x 8-pin GPU power connectors

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## Parts List