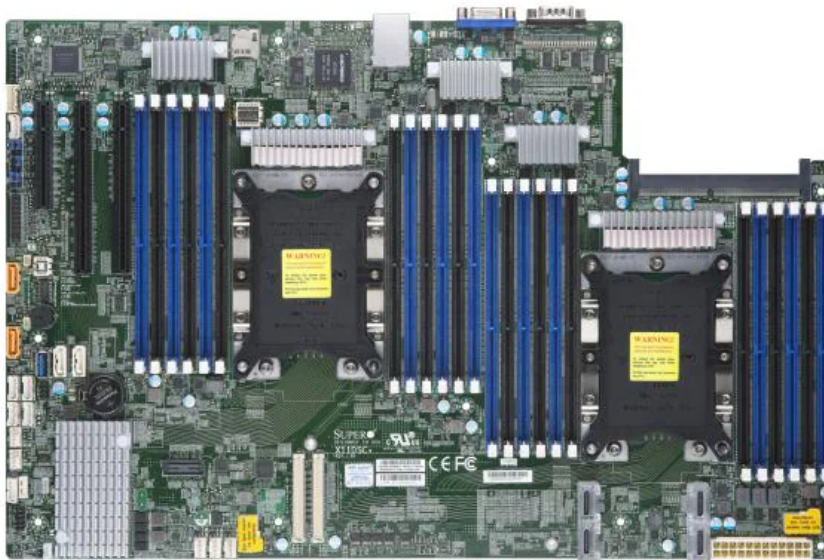


## X11DSC+ (For SuperServer Only)

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### 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. Intel® Node Manager, IPMI (Intelligent Platform Management Interface) v2.0 with KVM support, KVM with dedicated LAN, NMI, SPM, SSM, SUM, SuperDoctor® 5, Watchdog
4. Up to 6TB 3DS ECC RDIMM, DDR4-2933MHz; Up to 6TB 3DS ECC LRDIMM, DDR4-2933MHz  
Or 2TB DCPMM, DDR4-2666MHz, in 24 DIMM slots;  
Up to 6TB Intel® Optane™ DC Persistent Memory in memory mode (Cascade Lake only).
5. 2 PCI-E 3.0 x16, 1 PCI-E 3.0 x8, 1 PCI-E 3.0 x8+x8 for SAS3 Add-On-Module
6. 4 PCI-E 3.0 NVMe x4 Internal Port(s)
7. Intel® C621 controller for 4 SATA3 (6 Gbps) ports; RAID 0,1,5,10
8. Networking options provide via SIOM or AOC NIC

# Specifications

## Product SKUs

**MBD-X11DSC+** ■ X11DSC+

## Physical Stats

**Form Factor** ■ Proprietary

**Dimension** ■ 16.9" x 11" (42.93cm x 27.94cm)

## 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** ■ \*2933 MHz in two DIMMs per channel can be achieved by using memory purchased from Supermicro  
 ■ \*2933 MHz in two DIMMs per channel can be achieved by using memory purchased from Supermicro  
 BIOS version 3.2 or above is required to support 2nd Gen Intel® Xeon® Scalable processors (codenamed Cascade Lake-R)

## System Memory

**Memory Capacity** ■ 24 DIMM slots  
 ■ Up to 2TB Intel® Optane™ Persistent Memory 200 Series, DDR4-2666MHz  
 ■ Up to 6TB 3DS ECC LRDIMM, DDR4-2933MHz; Up to 6TB 3DS ECC RDIMM, DDR4-2933MHz  
 ■ Up to 6TB 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

## On-Board Devices

**Chipset** ■ Intel® C621

**SATA** ■ Intel® C621 controller for 4 SATA3 (6 Gbps) ports; RAID 0,1,5,10

**IPMI** ■ ASPEED AST2500

## Expansion Slots

**PCI-E** ■ 2 PCI-E 3.0 x16,  
 ■ 1 PCI-E 3.0 x8,  
 ■ 1 PCI-E 3.0 x16 for Add-On-Module (AOM)

## System BIOS

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

**BIOS Features** ■ ACPI 6.0

## 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** ■ Power-on mode for AC power recovery, ACPI / ACPM Power Management

## PC Health Monitoring

**Voltage** ■ VBAT, Supports system management utility, Chipset Voltage, Chassis intrusion header, +5V standby, +5V, +3.3V, +1.8V, 5+1 Phase-switching voltage regulator, 5 (4-pin)

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

**FAN** ■ 5x 4-pin fan headers (up to 5 fans)  
 ■ 5 fans with tachometer status monitoring  
 ■ Status monitoring for speed control  
 ■ Pulse Width Modulated (PWM) fan connectors

**Other Features** ■ RoHS  
 ■ Chassis intrusion header  
 ■ Chassis intrusion detection

## 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)

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<b>Graphics</b>	▪ ASPEED AST2500 BMC
<b>Network Controllers</b>	▪ N/A

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<b>Non Operating Relative Humidity Range</b>	▪ 5% - 95% (non-condensing)
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#### Input / Output

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<b>LAN</b>	▪ 2 Flexible LAN expansion via SIOM module
<b>USB</b>	▪ 1 USB 3.2 Gen1 port(s) (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>	▪ 1 COM Port(s) (1 rear)
<b>DOM</b>	▪ 2 SuperDOM (Disk on Module) port with build power
<b>TPM</b>	▪ 1 TPM Header

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## Parts List

Parts List (Bulk Package)			
Name	Part Number	Qty	Description
Motherboard	MBD-X11DSC+	1	X11DSC+ Motherboard

### Chassis (Optimized for X11DSC+)

Embedded Compact	1U	2U	3U	Mid/Mini-Tower	4U/Tower
		● SC826SE1C4-R1K62			● SC946LE1C-R1K66

● = Most optimized Chassis for SuperServer Configuration

Blue color = Compatible

Green color = Global SKU & Compatible

Red dot & green color = Optimized + Global SKU

### Server (Optimized for X11DSC+)

Server Name
<a href="#">SSG-2029P-E1CR48H</a>
<a href="#">SSG-2029P-E1CR48L</a>
<a href="#">SSG-6029P-E1CR24H</a>
<a href="#">SSG-6029P-E1CR24L</a>
<a href="#">SSG-6049P-E1CR45H</a>
<a href="#">SSG-6049P-E1CR45L</a>
<a href="#">SSG-6049P-E1CR45L+</a>
<a href="#">SSG-6049P-E1CR60H</a>
<a href="#">SSG-6049P-E1CR60L</a>
<a href="#">SSG-6049P-E1CR60L+</a>

