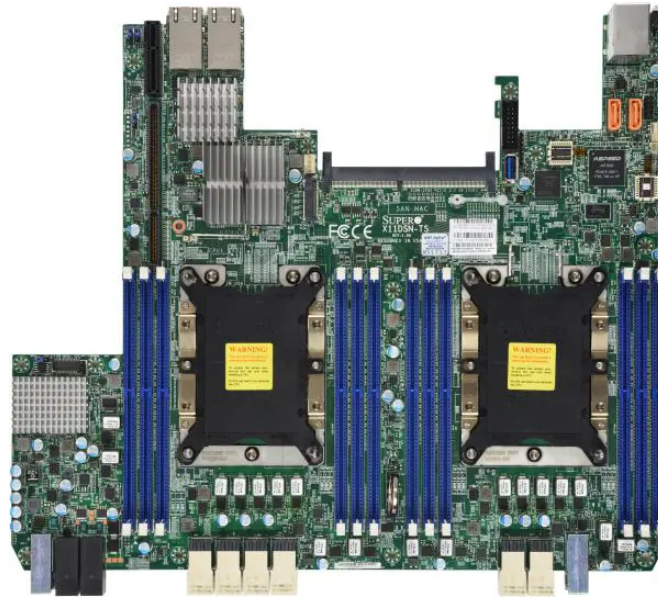


## X11DSN-TS (For SuperServer Only)

---



### NVMe SIOM LAN Support

#### 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® C624
3. Up to 3TB 3DS ECC RDIMM, DDR4-2933MHz; Up to 3TB 3DS ECC LRDIMM, DDR4-2933MHz, in 12 DIMM slots; Up to 2TB Intel® Optane™ DC Persistent Memory in memory mode (Cascade Lake only)
4. 2 PCI-E 3.0 x16 Left Riser Slot  
**M.2 Interface:** 1 PCI-E 3.0 x4  
**M.2 Form Factor:** 2242/2260/2280  
**M.2 Key:** M-Key
5. Dual LAN with 10GBase-T with Intel® X557
6. 1 VGA D-Sub Connector port
7. Intel® PCH SATA controller for

# Specifications

## Product SKUs

<b>MBD-X11DSN-TS</b>	<ul style="list-style-type: none"> <li>X11DSN-TS</li> </ul>
----------------------	---

## Physical Stats

<b>Form Factor</b>	<ul style="list-style-type: none"> <li>Proprietary</li> </ul>
<b>Dimension</b>	<ul style="list-style-type: none"> <li>11.5" x 13.9" (29.21cm x 35.31cm)</li> </ul>

## Processor

<b>CPU</b>	<ul style="list-style-type: none"> <li>2nd Gen Intel® Xeon® Scalable Processors and Intel® Xeon® Scalable Processors</li> <li>Dual Socket LGA-3647 (Socket P) supported, CPU TDP supports Up to 205W TDP, 3 UPI up to 10.4 GT/s</li> </ul>
<b>Core</b>	<ul style="list-style-type: none"> <li>Up to 28 cores</li> </ul>
<b>Note</b>	<ul style="list-style-type: none"> <li>BIOS version 3.2 or above is required to support 2nd Gen Intel® Xeon® Scalable processors (codenamed Cascade Lake-R)</li> </ul>

## System Memory

<b>Memory Capacity</b>	<ul style="list-style-type: none"> <li>12 DIMM slots</li> <li>Up to 3TB 3DS ECC LRDIMM, DDR4-2933MHz; Up to 3TB 3DS ECC RDIMM, DDR4-2933MHz</li> <li>Up to 2TB Intel® Optane™ DC Persistent Memory in memory mode (Cascade Lake only)</li> </ul>
<b>Memory Type</b>	<ul style="list-style-type: none"> <li>2933/2666/2400/2133MHz ECC DDR4 LRDIMM (3DS), RDIMM (3DS)</li> </ul>
<b>DIMM Sizes</b>	<ul style="list-style-type: none"> <li>LRDIMM: 64GB, 128GB</li> <li>RDIMM: 32GB, 64GB, 128GB</li> </ul>
<b>Memory Voltage</b>	<ul style="list-style-type: none"> <li>1.2V</li> </ul>
<b>Error Detection</b>	<ul style="list-style-type: none"> <li>Corrects single-bit errors</li> <li>Detects double-bit errors (using ECC memory)</li> </ul>

## On-Board Devices

<b>Chipset</b>	<ul style="list-style-type: none"> <li>Intel® C624</li> </ul>
<b>SATA</b>	<ul style="list-style-type: none"> <li>Intel® PCH SATA controller for ports</li> </ul>
<b>IPMI</b>	<ul style="list-style-type: none"> <li>ASPEED AST2500</li> </ul>
<b>Graphics</b>	<ul style="list-style-type: none"> <li>ASPEED AST2500 BMC</li> </ul>
<b>Network Controllers</b>	<ul style="list-style-type: none"> <li>Dual LAN with 10GBase-T with Intel® X557</li> </ul>

## Input / Output

## Expansion Slots

<b>PCI-E</b>	<ul style="list-style-type: none"> <li>2 PCI-E 3.0 x16 Left Riser Slot</li> </ul>
<b>M.2</b>	<ul style="list-style-type: none"> <li>M.2 Interface: 1 PCI-E 3.0 x4</li> <li>Form Factor: 2242/2260/2280</li> <li>Key: M-Key</li> </ul>

## System BIOS

<b>BIOS Type</b>	<ul style="list-style-type: none"> <li>AMI UEFI</li> </ul>
------------------	--

## Management

<b>Software</b>	<ul style="list-style-type: none"> <li>SuperDoctor® 5, NMI, <a href="#">SUM</a>, KVM with dedicated LAN, <a href="#">SPM</a>, Intel® Node Manager, <a href="#">SSM</a>, <a href="#">IPMI2.0</a>, Watchdog, IPMI (Intelligent Platform Management Interface) v2.0 with KVM support</li> </ul>
<b>System Management Software</b>	<ul style="list-style-type: none"> <li>IPMI (Intelligent Platform Management Interface) v1.5 / 2.0 with KVM support</li> </ul>

## PC Health Monitoring

<b>Voltage</b>	<ul style="list-style-type: none"> <li>VBAT, Monitors CPU voltages, 1.2V (VDIMM), 1.05 (PCH), +5V standby, +5V, +3.3V, +12V, +1.5V, +1.35V, Memory Voltages</li> </ul>
<b>LED</b>	<ul style="list-style-type: none"> <li>UID/Remote UID</li> <li>CPU / System Overheat LED</li> </ul>
<b>FAN</b>	<ul style="list-style-type: none"> <li>4x 4-pin fan headers (up to 4 fans)</li> <li>PWM fan speed control</li> <li>Fan speed control</li> <li>Overheat LED indication</li> </ul>
<b>Other Features</b>	<ul style="list-style-type: none"> <li>WOL, UID, RoHS, Node Manager Support, CPU thermal trip support for processor protection, Control of power-on for recovery from AC power loss, Chassis intrusion detection, RoHS, Halogen Free, Innovation Engine</li> </ul>

## Operating Environment

<b>Operating Temperature Range</b>	<ul style="list-style-type: none"> <li>10°C - 35°C (50°F - 95°F)</li> </ul>
<b>Non-Operating Temperature Range</b>	<ul style="list-style-type: none"> <li>-20°C - 60°C (-4°F - 140°F)</li> </ul>
<b>Operating Relative Humidity Range</b>	<ul style="list-style-type: none"> <li>8% - 90% (non-condensing)</li> </ul>
<b>Non Operating Relative Humidity Range</b>	<ul style="list-style-type: none"> <li>10% - 95% (non-condensing)</li> </ul>

- USB**
- 1 USB 3.2 Gen1 port(s) (1 type A)
  - 2 USB 3.0 port(s) (2 rear)

- 
- Video Output**
- 1 VGA D-Sub Connector port(s)

- 
- Serial Port**
- 2 COM Port(s) (1 header; 1 rear)

- 
- TPM**
- 1 TPM Header
-

## Parts List

Parts List (Bulk Package)			
Name	Part Number	Qty	Description
Motherboard	MBD-X11DSN-TS	1	X11DSN-TS Motherboard

### Server (Optimized for X11DSN-TS)

Server Name
<u>SSG-2029P-DN2R24L</u>

