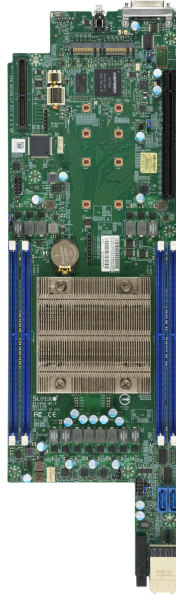


## X11SDD-18C-F (For SuperServer Only)

---



### MicroCloud

#### Key Features

1. Intel® Xeon® processor D-2191, Single socket FCBGA 2518, 18-Core, 86W
2. Up to 256GB ECC RDIMM DDR4 2400MHz or 512GB LRDIMM in 4 Sockets
3. 1 PCI-E 3.0 x16, 1 PCI-E 3.0 x8 (Micro LP)
4. 2 M.2 PCI-E 3.0 x4 with SATA M-Key in 2242/80/110
5. 2 SATA3 (6Gbps ports)
6. 1 VGA, 2 USB 2.0, 1 COM via KVM dongle
7. Integrated IPMI 2.0 and KVM with Dedicated LAN
8. Network option via Micro LP card

# Specifications

## Expansion Slots

<b>PCI-E</b>	<ul style="list-style-type: none"> <li>1 PCI-E 3.0 x16,</li> <li>1 PCI-E 3.0 x8 (Micro Low Profile)</li> </ul>
<b>M.2</b>	<ul style="list-style-type: none"> <li>M.2 Interface: 2 SATA/PCI-E 3.0 x4</li> <li>Form Factor: 2242/2260/2280/22110</li> <li>Key: M-Key</li> </ul>

## System BIOS

<b>BIOS Type</b>	<ul style="list-style-type: none"> <li>256MB SPI Flash with AMI BIOS</li> </ul>
<b>BIOS Features</b>	<ul style="list-style-type: none"> <li>Plug and Play (PnP)</li> <li>ACPI 6.2</li> <li>SMBIOS 3.1</li> <li>SMBIOS 2.8</li> <li>UEFI 2.7</li> <li>PCI FW 3.2</li> </ul>

## Management

<b>Software</b>	<ul style="list-style-type: none"> <li>NMI, <u>SUM</u>, KVM with dedicated LAN, Intel® Node Manager, <u>IPMI2.0</u>, Watchdog, IPMI (Intelligent Platform Management Interface) v2.0 with KVM support, SuperDoctor® III</li> </ul>
<b>System Management Software</b>	<ul style="list-style-type: none"> <li>SuperDoctor 5, IPMI (Intelligent Platform Management Interface) v1.5 / 2.0 with KVM support, SSM, SUM</li> </ul>
<b>Power Configurations</b>	<ul style="list-style-type: none"> <li>Power-on mode for AC power recovery, ACPI Power Management, CPU thermal trip support for processor protection, Main Switch Override Mechanism</li> </ul>

## PC Health Monitoring

<b>Voltage</b>	<ul style="list-style-type: none"> <li>System temperature, System level control, Supports system management utility, Monitors CPU voltages, Memory, HT, 3.3V standby, 1.2V (VDIMM), +5V standby, +5V, +3.3V, +12V, Memory Voltages</li> </ul>
<b>LED</b>	<ul style="list-style-type: none"> <li>UID/Remote UID</li> <li>BMC/IPMI Heartbeat LED</li> <li>CPU / System Overheat LED</li> </ul>
<b>Temperature</b>	<ul style="list-style-type: none"> <li>Monitoring for CPU and chassis environment</li> <li>Adaptive Thermal Monitor, PECI 3.0</li> </ul>
<b>FAN</b>	<ul style="list-style-type: none"> <li>Thermal control tachometer fan connectors, System level control, PWM fan speed control, Fan speed control, Pulse Width Modulated (PWM) fan connectors, Overheat LED indication</li> </ul>

**Product SKUs**

<b>MBD-X11SDD-18C-F</b>	<ul style="list-style-type: none"> <li>X11SDD-18C-F</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>4.66" x 18.5" (11.84cm x 46.99cm)</li> </ul>

**Processor**

<b>CPU</b>	<ul style="list-style-type: none"> <li>Intel® Xeon® Processor D-2191</li> <li>Single Socket FCBGA-2518 supported, CPU TDP supports Up to 86W TDP</li> </ul>
<b>Core</b>	<ul style="list-style-type: none"> <li>Up to 18 cores, 36 threads</li> </ul>

**System Memory**

<b>Memory Capacity</b>	<ul style="list-style-type: none"> <li>4 DIMM slots</li> <li>Up to 512GB ECC LRDIMM, DDR4-2400MHz; Up to 256GB ECC RDIMM, DDR4-2400MHz</li> </ul>
<b>Memory Type</b>	<ul style="list-style-type: none"> <li>2666/2400/2133MHz ECC DDR4 LRDIMM, RDIMM (Operating speed up to 2400MHz)</li> </ul>
<b>DIMM Sizes</b>	<ul style="list-style-type: none"> <li>8GB, 16GB, 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>System on Chip</li> </ul>
<b>SATA</b>	<ul style="list-style-type: none"> <li>2 SATA3 (6 Gbps) ports</li> </ul>
<b>IPMI</b>	<ul style="list-style-type: none"> <li>IPMI 2.0 with virtual media over LAN and KVM-over-LAN support</li> <li>Support for Intelligent Platform Management Interface v.2.0</li> </ul>
<b>Graphics</b>	<ul style="list-style-type: none"> <li>ASPEED AST2500 BMC</li> <li>Via KVM Connector</li> </ul>
<b>Network Controllers</b>	<ul style="list-style-type: none"> <li>Single LAN with Realtek RTL8211E PHY (dedicated IPMI), via Backplane</li> </ul>

**Input / Output**

<b>USB</b>	<ul style="list-style-type: none"> <li>2 USB 2.0 port(s) (2 rear)</li> </ul>
<b>Video Output</b>	<ul style="list-style-type: none"> <li>1 VGA port(s)</li> </ul>
<b>Serial Port</b>	<ul style="list-style-type: none"> <li>1 fast UART 16550 Serial</li> <li>1 COM Port(s) (1 rear), Via KVM Connector</li> </ul>
<b>TPM</b>	<ul style="list-style-type: none"> <li>1 TPM Header</li> </ul>
<b>Others</b>	<ul style="list-style-type: none"> <li>1 KVM Connector for 2USB 2.0</li> <li>1 VGA and COM Ports</li> </ul>

**Other Features**

- WOL, UID, System level control, RoHS, Node Manager Support, M.2 NGFF connector, CPU thermal trip support for processor protection, ACPI power management, SDDC, Hyper-Speed Technology hardware acceleration

**Operating Environment**

<b>Operating Temperature Range</b>	<ul style="list-style-type: none"> <li>0°C - 60°C (32°F - 140°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>10% - 85% (non-condensing)</li> </ul>
<b>Non Operating Relative Humidity Range</b>	<ul style="list-style-type: none"> <li>10% - 95% (non-condensing)</li> </ul>



## Parts List

Parts List (Bulk Package)			
Name	Part Number	Qty	Description
Motherboard	MBD-X11SDD-18C-F	1	X11SDD-18C-F Motherboard

### Server (Optimized for X11SDD-18C-F)

Server Name
<u>SYS-5039MD18-H8TNR</u>

