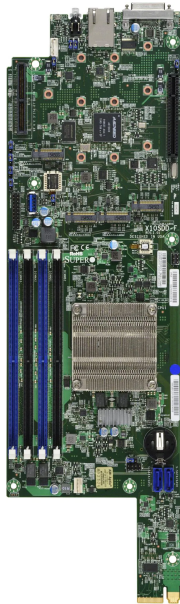


X10SDD-16C-F



MicroCloud Key Features

1. Intel® Xeon® processor D-1581, Single socket FCBGA 1667, 16-Core, 65W

2. System on Chip

3. Up to 128GB ECC RDIMM DDR4 2133MHz or 64GB ECC/Non-ECC UDIMM in 4 Sockets

4. Expansion slots: 1 PCI-E 3.0 x8,
1 PCI-E 3.0 x8 (Micro LP)

5. M.2 Interface: PCI-E 3.0 x4,
PCI-E 3.0 x4, PCI-E 2.0 x4, PCI-E 2.0 x2;
M.2 Form Factor: 2242, 2280, 22110

6. Network option via Micro LP card

7. 2 SATA3 (6Gbps ports)

8. 1 Dedicated IPMI LAN port

9. 1 KVM connector for 2 USB 2.0, VGA and COM ports

Links & Resources

- [Tested Memory List](#)
- [Tested HDD / SSD List](#)
- [Tested M.2 List](#)
- [Motherboard Manual](#)
- [Quick Reference Guide](#)
- [Update Your BIOS](#)
- [BMC/IPMI Firmware](#)
- [Download the Latest Drivers and Utilities](#)
- [Download Drivers CD](#)
- [OS Compatibility](#)

Specifications

Product SKUs		
MBD-X10SDD-16C-F	<ul style="list-style-type: none"> X10SDD-16C-F 	
Physical Stats		
Form Factor	<ul style="list-style-type: none"> Proprietary 	
Dimensions	<ul style="list-style-type: none"> 4.75" x 19.95" (12.07cm x 50.67cm) 	
Processor/Cache		
CPU	<ul style="list-style-type: none"> Intel® Xeon® Processor D-1581. Single Socket FCBGA1667 supported, CPU TDP support 65W 	
Cores / Cache	<ul style="list-style-type: none"> / 24MB cache 	
System Memory		
Memory Capacity	<ul style="list-style-type: none"> 128GB Registered ECC RDIMM Up to 64GB Unbuffered ECC/non-ECC UDIMM, DDR4-2133MHz, in 4 DIMM slots 	
Memory Type	<ul style="list-style-type: none"> 2133/2400MHz ECC DDR4 RDIMM and ECC/Non-ECC UDIMM 	
DIMM Sizes	<ul style="list-style-type: none"> 4GB, 8GB, 16GB, 32GB 	
Memory Voltage	<ul style="list-style-type: none"> 1.2V 	
Error Detection	<ul style="list-style-type: none"> Corrects single-bit errors Detects double-bit errors (using ECC memory) 	
On-Board Devices		
Chipset	<ul style="list-style-type: none"> System on Chip 	
SATA	<ul style="list-style-type: none"> 2 SATA3 (6 Gbps) ports; 	
IPMI	<ul style="list-style-type: none"> Support for Intelligent Platform Management Interface v.2.0 IPMI 2.0 with virtual media over LAN and KVM-over-LAN support 	
Network Controllers	<ul style="list-style-type: none"> Single LAN with 1 Realtek RTL8211E PHY (dedicated IPMI) 	
Graphics	<ul style="list-style-type: none"> Aspeed AST2400 BMC via KVM connector 	
Input / Output		
LAN	<ul style="list-style-type: none"> 1 RJ45 Dedicated IPMI LAN port 	
USB	<ul style="list-style-type: none"> 2 USB 2.0 ports (2 rear Type A); 2x USB 2.0 ports via KVM 	
Video Output	<ul style="list-style-type: none"> 1 VGA port, via KVM connector 	
Serial Port / Header	<ul style="list-style-type: none"> 1 COM Port (1 rear), via KVM connector 1 fast UART 16550 serial 	
TPM	<ul style="list-style-type: none"> TPM Header 	
Others	<ul style="list-style-type: none"> KVM Connector for VGA, 2 USB 2.0 and COM Ports 	
Expansion Slots		
PCI-E	<ul style="list-style-type: none"> 1 PCI-E 3.0 x8, 1 PCI-E 3.0 x8 (Micro Low Profile) 	
M.2	<ul style="list-style-type: none"> 3 M.2 M-Key SATA/PCI-E 3.0 x4, 2242/2280/22110 	
System BIOS		
BIOS Type	<ul style="list-style-type: none"> 128Mb SPI Flash EEPROM with AMI BIOS 	
BIOS Features	<ul style="list-style-type: none"> Plug and Play (PnP) APM 1.2 ACPI 1.0 / 2.0 / 3.0 / 4.0 USB Keyboard support RTC (Real Time Clock) Wakeup SMBIOS 2.3 	
Management		
Software	<ul style="list-style-type: none"> Intel® Node Manager, IPMI (Intelligent Platform Management Interface) v2.0 with KVM support, IPMI2.0, KVM with dedicated LAN, NMI, SUM, SuperDoctor® III, Watchdog 	
Power Configurations	<ul style="list-style-type: none"> ACPI Power Management Main Switch Override Mechanism Power-on mode for AC power recovery Internal/External modem ring-on 	
PC Health Monitoring		
Voltage	<ul style="list-style-type: none"> +12V, +3.3V, +5V, +5V standby, 1.2V (VDIMM), 3.3V standby, 5 Phase-switching voltage regulator with auto-sense from 0.8375V-1.60V, HT, Memory, Memory Voltages, Monitors CPU voltages, Supports system management utility, System level control, System temperature 	
FAN	<ul style="list-style-type: none"> Fan speed control, Low noise fan speed control, Overheat LED indication, Pulse Width Modulated (PWM) fan connectors, PWM fan speed control, System level control, Thermal control tachometer fan connectors 	
Temperature	<ul style="list-style-type: none"> N/A 	
LED	<ul style="list-style-type: none"> CPU / System Overheat LED, UID/Remote UID BMC Heartbeat LED, System Failure LED 	
Other Features	<ul style="list-style-type: none"> ACPI power management, CPU thermal trip support for processor protection, M.2 NGFF connector, Node Manager Support, RoHS, SDDC, System level control, UID, WOL 	
Operating Environment		
Operating Temperature Range	<ul style="list-style-type: none"> 0°C ~ 60°C (32°F ~ 140°F) 	

Non-Operating Temperature Range ■ -20°C ~ 60°C (-4°F ~ 140°F)

Operating Relative Humidity Range ■ 10% ~ 85% (non-condensing)

Non-Operating Relative Humidity Range ■ 10% ~ 95% (non-condensing)

Parts List

Parts List (Bulk Package)			
Name	Part Number	Qty	Description
Motherboard	MBD-X10SDD-16C-F	1	X10SDD-16C-F Motherboard