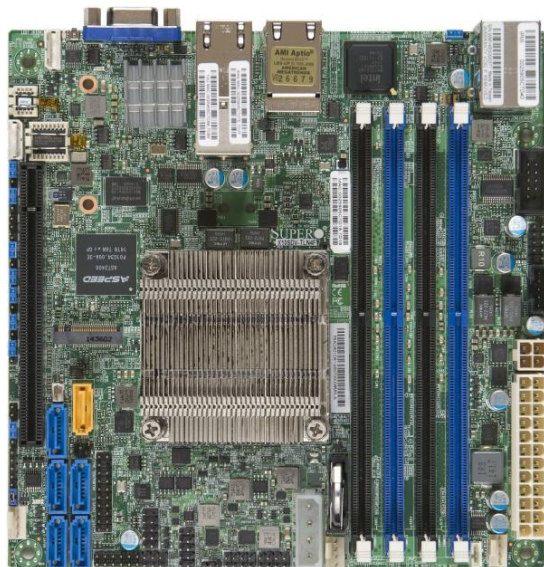


X10SDV-6C-TLN4F



**Xeon D SoC
Broadwell-DE
Dual 10GbE
Embedded**

Key Features

Links & Resources

[Tested Memory List](#)

[Tested HDD / SSD List](#)

[Tested M.2 List](#)

[Tested AOC List](#)

[Motherboard Manual](#)

[Quick Reference Guide](#)

[Update Your BIOS](#)

[BMC/IPMI Firmware](#)

[Download the Latest Drivers and Utilities](#)

[Download Drivers CD](#)

[OS Compatibility](#)

[Optimization](#)

1. Intel® Xeon® processor D-1528, Single socket FCBGA 1667; 6-Core, 12 Threads, 35W
2. System on Chip
3. Up to 128GB ECC RDIMM DDR4 2133MHz or 64GB ECC/non-ECC UDIMM in 4 sockets
4. 1 PCI-E 3.0 x16, M.2 PCI-E 3.0 x4 (SATA support), M Key 2242/2280
5. 2 10GbE and 2 GbE LAN ports
6. 6 SATA3 (6Gbps) ports via SoC
7. 2 USB 3.0 ports (rear) 4 USB 2.0 ports (via headers)
8. 1 SuperDOM, 1 COM, TPM header, GPIO and SMBus headers
9. 12V DC Input and ATX Power Source

Specifications

Product SKUs

MBD-X10SDV-6C-TLN4F	■ X10SDV-6C-TLN4F
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Physical Stats

Form Factor	■ Mini-ITX
Dimensions	■ 6.7" x 6.7" (17.02cm x 17.02cm)

Processor/Cache

CPU	■ Intel® Xeon® Processor D-1528. ■ Single Socket FCBGA1667 supported, CPU TDP support 35W
Cores / Cache	■ 6 cores, 12 threads / 9MB cache

System Memory

Memory Capacity	■ Up to 128GB Registered ECC RDIMM, DDR4-2133MHz ■ Up to 64GB Unbuffered ECC/non-ECC UDIMM, DDR4-2133MHz, in 4 DIMM slots
Memory Type	■ 2133/1866/1600MHz ECC DDR4 ECC RDIMM and ECC/Non-ECC UDIMM
DIMM Sizes	■ 4GB, 8GB, 16GB, 32GB
Memory Voltage	■ 1.2V
Error Detection	■ Corrects single-bit errors ■ Detects double-bit errors (using ECC memory)

On-Board Devices

Chipset	■ System on Chip
SATA	■ SoC controller for 6 SATA3 (6 Gbps) ports; RAID 0,1,5,10
IPMI	■ Support for Intelligent Platform Management Interface v.2.0 ■ IPMI 2.0 w ith virtual media over LAN and KVM-over-LAN support
Network Controllers	■ Dual LAN w ith Intel® Ethernet Controller I350-AM2 Dual LAN w ith 10Gbase-T Single LAN w ith Virtual Machine Device Queues reduce I/O overhead Single LAN w ith Supports 10Base-T, 100BASE-TX, and 1000BASE-T, RJ45 output Single LAN w ith 1 Realtek RTL8211E PHY (dedicated IPMI)
Graphics	■ Aspeed AST2400 BMC

Input / Output

SATA	■ 6 SATA3 (6Gbps) port
LAN	■ 2 RJ45 Gigabit Ethernet LAN ports ■ 2 RJ45 10GBase-T ports ■ 1 RJ45 Dedicated IPMI LAN port
USB	■ 4 USB 2.0 ports (4 headers, Type A)) ■ 2 USB 3.0 ports (2 rear)
Video Output	■ 1 VGA port
Serial Port / Header	■ 1 COM Port (1 header)
TPM	■ TPM Header

Expansion Slots

PCI-E	■ 1 PCI-E 3.0 x16
M.2	■ 1 M.2 M-Key SATA/PCI-E 3.0 x4, 2242/2280

System BIOS

BIOS Type	■ 128Mb SPI Flash w ith AMI BIOS
BIOS Features	■ PCI 3.0 ■ ACPI 5.0 ■ USB Keyboard support ■ Hardware BIOS Virus protection ■ RTC (Real Time Clock) Wakeup ■ SMBIOS 2.8 ■ UEFI 2.4

Management

Software	■ Intel® Node Manager, IPMI (Intelligent Platform Management Interface) v2.0 w ith KVM support, IPMI2.0, KVM w ith dedicated LAN, NMI, SUM, SuperDoctor® 5, Watchdog
System Mangement Software	■ SUM
Power Configurations	■ ACPI Pow er Management ■ Control of pow er-on for recovery from AC pow er loss ■ CPU thermal trip support for processor protection

PC Health Monitoring

Voltage	■ +1.8V, +12V, +3.3V, +5V, 1.2V (VDIMM), 4 - fan status, 4 fans w ith tachometer monitoring, Chassis intrusion header, Memory, Memory Voltages, Monitors for CPU Cores, Supports system management utility, System level control, System temperature
FAN	■ 4x 4-pin fan headers (up to 4 fans), Dual Cooling Zone, Fan speed control, Low noise fan speed control, Overheat LED indication, Pulse Width Modulated (PWM) fan connectors, PWM fan speed control, Status monitoring for on/off control, Status monitoring for speed control, System level control, Thermal control tachometer fan connectors
Temperature	■ Monitoring for CPU and chassis environment, CPU thermal trip support, Thermal Monitor 2 (TM2) support, PECI
LED	■ CPU / System Overheat LED, UID/Remote UID
Other Features	■ 12V DC or ATX Pow er Source, 4-pin 12v DC pow er connector, ACPI pow er management, ATX Pow er connector, Chassis intrusion detection, Chassis intrusion header, Control of pow er-on for recovery from AC pow er loss, CPU thermal trip support for processor protection, Dual Cooling Zones, Hyper-Speed Technology hardw are acceleration, M.2 NGFF connector, Node Manager Support, RoHS

Operating Environment

Operating Temperature Range	■ 0°C ~ 60°C (32°F ~ 140°F)
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Parts List

Parts List (Bulk Package)			
Name	Part Number	Qty	Description
Motherboard	MBD-X10SDV-6C-TLN4F	1	X10SDV-6C-TLN4F Motherboard
I/O Cables	CBL-0044L	2	57.5CM SATA FLAT S-S PBF
I/O Shield	MCP-260-00084-0N	1	STD I/O SHIELD

Optional Parts List			
Name	Part Number	Qty	Description
1U I/O Shield	MCP-260-00085-0B	1	1U I/O Shield for X10SDV-F/TLN4F in CSE-510/505/504
1U I/O Shield	MCP-260-00079-0N	1	1U I/O shield for X10SDV-F/TLN4F in SC813/SC512 chassis

Chassis (Optimized for X10SDV-6C-TLN4F)

Embedded Compact	1U	2U	3U	Mid/Mini-Tower	4U/Tower
	SC505-203B SC504-203B				

= Most optimized Chassis for SuperServer Configuration
Blue color = Compatible
Green color = Global SKU & Compatible
Red dot & green color = Optimized + Global SKU

Server (Optimized for X10SDV-6C-TLN4F)

Server Name
<u>SYS-E200-8D</u>