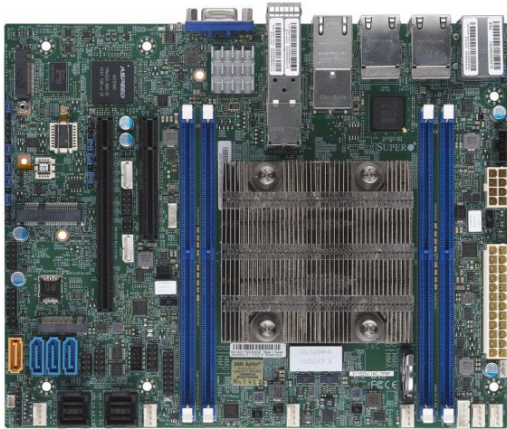




Xeon D SoC

Key Features

- 1. Intel® Xeon® Processor D-2183IT, CPU TDP support 100W
- 2. System on Chip
- 3. Up to 256GB Registered ECC RDIMM, DDR4-2400MHz; Up to 512GB LRDIMM LRDIMM, DDR4-2400MHz, in 4 DIMM slots
- 4. 1 PCI-E 3.0 x8,
1 PCI-E 3.0 x16
M.2 Interface: 1 PCI-E 3.0 x4 and 1 SATA/PCI-E 3.0 x2
M.2 Form Factor: 2242/2280
M.2 Key: M-Key, B-Key
U.2 Interface: 2 PCI-E 3.0 x4,
2 PCI-E 3.0 NVMe x4 Internal Port(s)
- 5. 1 VGA D-Sub Connector port
- 6. SoC controller for 12 SATA3 (6 Gbps) ports; RAID 0,1,5,10
- 7. Quad LAN with Intel® Ethernet Controller I350-AM4
Dual LAN with 10G SFP+ LAN via SoC
Dual LAN with 10Gbase-T
- 8. Supports 12V DC power input

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 Driver CD](#)
- [OS Compatibility](#)
- [Optimization](#)

Specifications

Product SKUs

MBD-X11SDV-16C-TP8F	■ X11SDV-16C-TP8F
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Physical Stats

Form Factor	■ Flex ATX
Dimensions	■ 9" x 7.25" (22.86cm x 18.42cm)

Processor/Cache

CPU	■ Intel® Xeon® Processor D-2183IT, CPU TDP support 100W
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System Memory

Memory Capacity	■ Up to 256GB Registered ECC RDIMM, DDR4-2400MHz; Up to 512GB LRDIMM LRDIMM, DDR4-2400MHz, in 4 DIMM slots
Memory Type	■ 2666/2400/2133MHz ECC DDR4 RDIMM, LRDIMM (Operating speed up to 2400MHz)
DIMM Sizes	■ RDIMM: 16GB, 32GB, 64GB, 128GB ■ LRDIMM: 16GB, 32GB, 64GB, 128GB
Memory Voltage	■ 1.2V

On-Board Devices

Chipset	■ System on Chip
SATA	■ SoC controller for 12 SATA3 (6 Gbps) ports; RAID 0,1,5,10
IPMI	■ ASPEED AST2500
Network Controllers	■ Quad LAN w ith Intel® Ethernet Controller I350-AM4 Dual LAN w ith 10G SFP+ LAN via SoC Dual LAN w ith 10Gbase-T
Graphics	■ Aspeed AST2500 BMC

Input / Output

SATA	■ 4 SATA3 ports via SoC controller
LAN	■ 4 RJ45 Gigabit Ethernet LAN ports ■ 2 RJ45 10GBase-T ports ■ 2 10G SFP+ LAN ports
USB	■ 2 USB 2.0 ports (2 headers, Type A)) ■ 2 USB 3.0 ports (2 rear)
Video Output	■ 1 VGA D-Sub Connector port
Serial Port / Header	■ 1 COM Port (1 header)
TPM	■ 1 TPM Header

Expansion Slots

PCI-E	■ 1 PCI-E 3.0 x8, ■ 1 PCI-E 3.0 x16
M.2	■ M.2 Interface: 1 PCI-E 3.0 x4 and 1 SATA/PCI-E 3.0 x2 ■ Form Factor: 2242/2280 ■ Key: M-Key , B-Key

System BIOS

BIOS Type	■ UEFI 128Mb
BIOS Features	■ ACPI 6.1 ■ SMBIOS 3.1 ■ UEFI 2.6 ■ PCI FW 3.2

Management

Software	■ IPMI2.0, KVM w ith dedicated LAN, Watchdog
Power Configurations	■ +12V DC Pow er Input ■ ACPI Pow er Management ■ CPU thermal trip support for processor protection

PC Health Monitoring

Voltage	■ +1.5V, +12V, +3.3V, +5V, +5V standby, 5 (4-pin), 5 -fan status, Monitors CPU voltages, System level control
FAN	■ 6x 4-pin fan headers (up to 6 fans), 6 fans w ith tachometer status monitoring, Dual Cooling Zone, Fan speed control, Overheat LED indication, PWM fan speed control, System level control, Thermal control tachometer fan connectors
Temperature	■ N/A
LED	■ N/A
Other Features	■ 12V DC or ATX Pow er Source, 8-pin 12v DC pow er connector, ACPI pow er management, ATX Pow er connector, Chassis intrusion header, CPU thermal trip support for processor protection, Dual Cooling Zones, M.2 NGFF connector, RoHS

Operating Environment

Operating Temperature Range	■ 0°C ~ 60°C (32°F ~ 140°F)
Operating Relative Humidity Range	■ 8% - 90% (non-condensing)
Non-Operating Relative Humidity Range	■ 5% - 95% (non-condensing)

Parts List

Parts List (Bulk Package)			
Name	Part Number	Qty	Description
Motherboard	MBD-X11SDV-16C-TP8F	1	X11SDV-16C-TP8F Motherboard
I/O Cables	CBL-0044L	2	57.5CM SATA FLAT S-S PBF
I/O Shield	MCP-260-00098-0N	1	STD I/O SHIELD

Optional Parts List			
Name	Part Number	Qty	Description
1U I/O Shield	MCP-260-00100-0B	1	1U I/O Shield for X10SDV-16C-TP8F in SC510/SC505/SC504 chassis
1U I/O Shield	MCP-260-00099-0N	1	1U I/O Shield for X10SDV-16C-TP8F in SC813/SC514 chassis
SAS/SATA Cable	CBL-SAST-0616	1	MINI SAS HD-4 SATA, INT, 50CM, 50CM SB, 30AWG

Chassis (Optimized for X11SDV-16C-TP8F)

Embedded Compact	1U	2U	3U	Mid/Mini-Tower	4U/Tower
	SC505-203B SC504-203B SC813MFTQ-R400CB SC512F-260 SC512-260B				

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