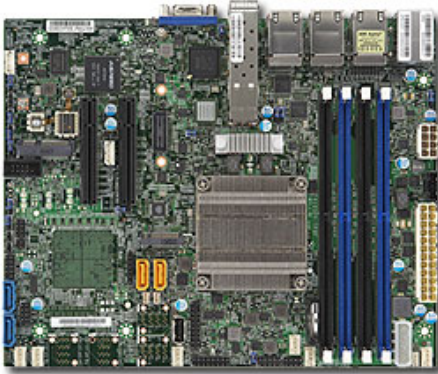


X10SDV-TP8F

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**Broadwell-DE, Dual 10GbE, Embedded
7-Year Product Life (Coming Soon)**

Key Features

1. Intel® Xeon® processor D-1518, Single socket FCBGA 1667; 4-Core, 8 Threads, 35W
2. Up to 128GB ECC RDIMM DDR4 2133MHz or 64GB ECC/non-ECC UDIMM in 4 sockets
3. Expansion slot: 2x PCIe 3.0 x8, M.2 PCIe 3.0 x4, M Key 2242/2280/22110, Mini-PCIe with mSATA support
4. Dual 10G SFP+ and Six 1GbE LAN
5. 4x SATA3 (6Gbps) ports via SoC
6. 2x USB 3.0 ports (rear), 5x USB 2.0 ports (4 via headers, 1 Type A)
7. 2x SuperDOM, 1x COM, TPM 2.0 header, GPIO and SMBus headers
8. 12V DC input and ATX Power Source

Links & Resources

- [Update Your BIOS](#)
- [BMC/IPMI Firmware](#)
- [Download the Latest Drivers and Utilities](#)
- [Download Driver CD](#)
- [OS Compatibility](#)

Specifications

Product SKUs	
Motherboard	▪ X10SDV-TP8F (Bulk Pack)
Physical Stats	
Form Factor	▪ Flex ATX
Dimensions	▪ 9.0" x 7.25", (22.86cm x 18.42cm)
Processor/Cache	
CPU	▪ Intel® Xeon® processor D-1518, 2.2GHz; CPU TDP support 35W ▪ FCBGA 1667
Cores / Cache	▪ 4 Cores, 8 Threads / 6MB
System Memory	
Memory Capacity	▪ 4x DDR4 DIMM sockets ▪ Supports up to 128GB DDR4 ECC RDIMM ▪ Supports up to 64GB DDR4 ECC/non-ECC UDIMM
Memory Type	▪ 2133/1866/1600MHz ECC DDR4 ECC RDIMM and ECC/Non-ECC UDIMM
DIMM Sizes	▪ 32GB, 16GB, 8GB, 4GB
Memory Voltage	▪ 1.2 V
Error Detection	▪ Corrects single-bit errors ▪ Detects double-bit errors (using ECC memory)
On-Board Devices	
Chipset	▪ System on Chip
SATA	▪ SoC controller for 4 SATA3 (6Gbps) ports; RAID 0,1,5,10 RSTe
Network Controllers	▪ Dual 10G SFP+ from D-1500 SoC ▪ Quad 1GbE with Intel I350-AM4 ▪ Dual 1GbE with Intel I210
IPMI	▪ Support for Intelligent Platform Management Interface v.2.0 ▪ IPMI 2.0 with virtual media over LAN and KVM-over-LAN support
Video	▪ Aspeed AST2400

Chassis (Optimized for X10SDV-TP8F)	
1U Chassis:	▪ SC504-203B ▪ SC505-203B ▪ SC514-505 ▪ SC515-R407
Important Chassis Notes	▪ To support the new generation Intel® Xeon® processor-based motherboards, Revision N chassis is recommended. Please talk to your sales representative for details.
SuperServer(s) with X10SDV-TP8F	
Model(s)	▪ SYS-5018D-FN8T
Expansion Slots	
PCI-Express	▪ 2x PCIe 3.0 x8 slots ▪ M.2 PCIe 3.0 x4, M Key 2242/2280/22110 ▪ Mini-PCIe with mSATA support
System BIOS	
BIOS Type	▪ 128Mb SPI Flash with AMI BIOS
BIOS Features	▪ PCI 3.0 ▪ ACPI 5.0 ▪ USB Keyboard support ▪ Hardware BIOS Virus protection ▪ SMBIOS 2.8 ▪ UEFI 2.4 ▪ RTC (Real Time Clock) Wakeup
Management	
Software	▪ Intel® Node Manager ▪ IPMI 2.0 ▪ KVM with dedicated LAN ▪ NMI ▪ SUM ▪ SuperDoctor® 5 ▪ Watch Dog
Power Configurations	▪ ACPI Power Management ▪ ATX Power connector ▪ +12V DC Power Input ▪ Control of power-on for recovery from AC power loss

TPM	<ul style="list-style-type: none"> TPM 2.0 header
Input / Output	
SATA	<ul style="list-style-type: none"> 4x SATA3 (6Gbps) ports
LAN	<ul style="list-style-type: none"> 2x 10G SFP+ LAN ports 6x 1GbE LAN ports 1x Dedicated IPMI LAN port
USB	<ul style="list-style-type: none"> 2x USB 3.0 ports (rear) 5x USB 2.0 ports (4 via headers, 1 Type A)
Video	<ul style="list-style-type: none"> 1x VGA port
Serial Port / Header	<ul style="list-style-type: none"> 1x COM port (header)
DOM	<ul style="list-style-type: none"> 2x SuperDOM (Disk on Module) power connectors

<ul style="list-style-type: none"> CPU thermal trip support for processor protection M.2 NGFF connector, Node Manager Support, SDDC, System level control, UID, WOL 	
PC Health Monitoring	
Voltage	<ul style="list-style-type: none"> Monitors for CPU Cores, +1.8V, +12V, +3.3V, +5V, Chassis intrusion header, System level control, VBAT
FAN	<ul style="list-style-type: none"> Total of six 4-pin fan headers supporting tachometer status monitoring Dual Cooling Zone Status monitor for speed control Status monitor for on/off control Low noise fan speed control Pulse Width Modulated (PWM) fan connectors
Temperature	<ul style="list-style-type: none"> Monitoring for CPU and chassis environment CPU thermal trip support Thermal Monitor 2 (TM2) support PECI
LED	<ul style="list-style-type: none"> CPU / System Overheat LED
Other Features	<ul style="list-style-type: none"> Chassis intrusion detection Chassis intrusion header 12V DC or ATX Power Source RoHS
Operating Environment	
Operating Temperature Range	<ul style="list-style-type: none"> 0°C - 60°C (32°F - 140°F)

Note: For optimized or compatible chassis, additional parts may be required, please check with Supermicro sales rep

Parts List

Parts List (Bulk Package)			
	Part Number	Qty	Description
Motherboard	MBD-X10SDV-TP8F	1	X10SDV-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			
	Part Number	Qty	Description
1U I/O Shield	MCP-260-00100-0B	1	1U I/O Shield for X10SDV-TP8F in SC510/SC505/SC504 chassis
1U I/O Shield	MCP-260-00099-0N	1	1U I/O Shield for X10SDV-TP8F in SC813/SC514 chassis

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