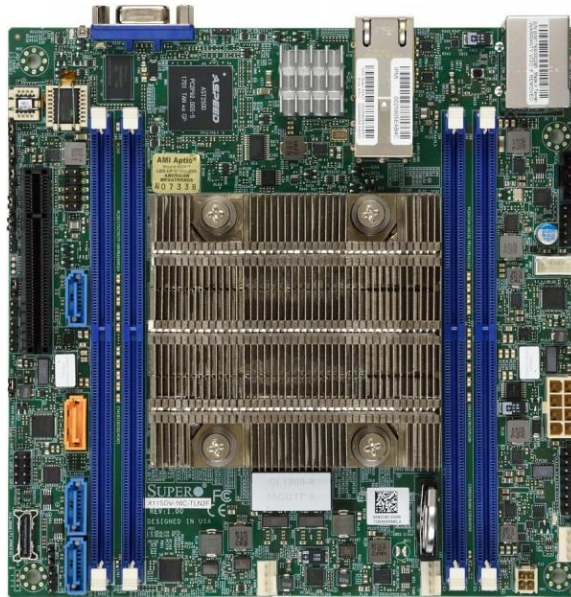


X11SDV-8C-TLN2F



Skylake-D
8-Core
NVMe
Dual 10GbE

Key Features

1. Intel® Xeon® Processor D-2141I,
8-Core, 16 Threads, 65W
2. Up to 256GB Registered ECC RDIMM or 512GB ECC LRDIMM, DDR4-2133MHz in 4 DIMM slots
3. 1 PCI-E 3.0 x8
1 PCI-E 3.0 x4 NVMe Internal Port via OcuLink
4. Up to 8 SATA3 (6 Gbps) ports; RAID 0,1,5,10
4 SATA ports via OcuLink (or PCI-E 3.0 x4 for NVMe)
5. Dual LAN with 10GBase-T via Intel® SoC
6. System on Chip
7. 2 USB 3.0 ports (rear)
2 USB 2.0 ports (via header)
8. 12V DC or ATX Power Input

Specifications

Expansion Slots

- | | |
|--------------|---|
| PCI-E | <ul style="list-style-type: none"> 1 PCI-E 3.0 x8 1 PCI-E 3.0 x4 NVMe Internal Port via OCuLink |
|--------------|---|

System BIOS

- | | |
|----------------------|--|
| BIOS Type | <ul style="list-style-type: none"> AMI UEFI |
| BIOS Features | <ul style="list-style-type: none"> ACPI 6.1 SMBIOS 3.1 UEFI 2.6 PCI FW 3.2 |

Management

- | | |
|-----------------------------------|---|
| Software | <ul style="list-style-type: none"> SuperDoctor® 5, <u>SUM</u>, <u>SPM</u>, Intel® Node Manager, <u>SSM</u>, Watchdog, IPMI (Intelligent Platform Management Interface) v2.0 with KVM support |
| System Management Software | <ul style="list-style-type: none"> IPMI (Intelligent Platform Management Interface) v1.5 / 2.0 with KVM support |
| Power Configurations | <ul style="list-style-type: none"> ACPI Power Management, +12V DC Power Input |

PC Health Monitoring

- | | |
|-----------------------|--|
| Voltage | <ul style="list-style-type: none"> VBAT, Supports system management utility, Monitors CPU voltages, 3 -fan status, 1.2V (VDIMM), 1.05 (PCH), +5V standby, +5V, +3.3V, +12V, +1.5V, Memory Voltages |
| LED | <ul style="list-style-type: none"> UID/Remote UID Power LED BMC/IPMI Heartbeat LED |
| Temperature | <ul style="list-style-type: none"> Thermal Control for 3 Fan Connectors |
| FAN | <ul style="list-style-type: none"> 3x 4-pin fan headers (up to 3 fans) Thermal control tachometer fan connectors, System level control, Fan speed control, Dual Cooling Zone, 3 fans with tachometer monitoring, Pulse Width Modulated (PWM) fan connectors, Overheat LED indication, Support 3-pin fans (w/o speed control) |
| Other Features | <ul style="list-style-type: none"> UID, RoHS, Node Manager Support, Dual Cooling Zones, Chassis intrusion header, ATX Power connector, ACPI power management, 8-pin 12v DC power connector, 12V DC or ATX Power Source |

Operating Environment

Product SKUs		Operating Temperature Range	■ 0°C - 60°C (32°F - 140°F)
MBD-X11SDV-8C-TLN2F	■ X11SDV-8C-TLN2F	Non-Operating Temperature Range	■ -40°C - 70°C (-40°F - 158°F)
Physical Stats		Operating Relative Humidity Range	■ 8% - 90% (non-condensing)
Form Factor	■ Mini-ITX	Non Operating Relative Humidity Range	■ 5% - 95% (non-condensing)
Dimension	■ 6.75" x 6.75" (17.15cm x 17.15cm)		
Processor			
CPU	■ Intel® Xeon® Processor D-2141I ■ Single Socket FCBGA-2518 supported, CPU TDP supports Up to 65W TDP		
Core	■ Up to 8 cores, 16 threads / 11MB Cache		
System Memory			
Memory Capacity	■ 4 DIMM slots ■ Up to 512GB ECC LRDIMM, DDR4-2133MHz; Up to 256GB ECC RDIMM, DDR4-2133MHz		
Memory Type	■ 2666/2400/2133MHz ECC DDR4 LRDIMM, RDIMM (Operating speed up to 2133MHz)		
DIMM Sizes	■ LRDIMM: 16GB, 32GB, 64GB, 128GB ■ RDIMM: 4GB, 8GB, 16GB, 32GB, 64GB		
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 8 SATA3 (6 Gbps) ports; RAID 0,1,5,10		
IPMI	■ ASPEED AST2500		
Graphics	■ ASPEED AST2500 BMC		
Network Controllers	■ Dual LAN with 10Gbase-T		
Input / Output			
LAN	■ 1 RJ45 Dedicated IPMI LAN port ■ 2 RJ45 10GBase-T ports		
USB	■ 2 USB 2.0 port(s) (2 via header) ■ 2 USB 3.0 port(s) (2 rear)		
Video Output	■ 1 VGA port(s)		
DOM	■ 1 SATA <u>DOM</u> (Disk on Module) power connector support		
TPM	■ 1 TPM Header		

Parts List

Parts List (Bulk Package)			
Name	Part Number	Qty	Description
Motherboard	MBD-X11SDV-8C-TLN2F	1	X11SDV-8C-TLN2F Motherboard
ATX Power Cable	CBL-PWEX-1063 • eStore	1	6CM ATX Power Signal Cable
I/O Shield	MCP-260-00084-0N • eStore	1	Standard I/O Shield for X11SDV-TLN2F
SATA Cables	CBL-0044L • eStore	2	57.5CM SATA FLAT S-S PBF

Parts List (Retail Package)			
Name	Part Number	Qty	Description
Motherboard	MBD-X11SDV-8C-TLN2F	1	X11SDV-8C-TLN2F Motherboard
ATX Power Cable	CBL-PWEX-1063 • eStore	1	6CM ATX Power Signal Cable
I/O Shield	MCP-260-00084-0N • eStore	1	Standard I/O Shield for X11SDV-TLN2F
QRG	MNL-2019-QRG	1	Motherboard Quick Reference Guide
SATA Cables	CBL-0044L • eStore	4	57.5CM SATA FLAT S-S PBF
U.2 Cable	CBL-SAST-0956 • eStore	1	55CM OCuLink to U.2 Cable with Molex Power Header

Optional Parts List			
Name	Part Number	Qty	Description
1U I/O Shield	MCP-260-00085-0B	--	1U I/O Shield for X11SDV-TLN2F in CSE-505/504
OCuLink to 4x SATA Cable	CBL-SAST-0933 • eStore	--	50CM OCuLink to 4x SATA Cable
Oculink to NVMe + power cable	CBL-SAST-0955 • eStore	--	OcuLink to PCIe, w/ Power, 45CM,
SATA Power Cable	CBL-SAST-0886	--	SATA 15pin x2 to 4pin 40CM

Chassis (Optimized for X11SDV-8C-TLN2F)

Embedded Compact	1U	2U	3U	Mid/Mini-Tower	4U/Tower
	SCE300				

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