

# X10SDV-16C-TLN4F+

## Key Features

1. Intel® Xeon® processor D-1587, Single socket FCBGA 1667; 16-Core, 32 Threads, 65W
2. System on Chip
3. Up to 128GB ECC RDIMM DDR4, 2133MHz or 64GB ECC/non-ECC, UDIMM in 4 sockets
4. 1x PCI-E 3.0 x16, M.2 PCI-E 3.0 x4 (SATA support), M Key 2242/2280
5. 2x 10G SFP+ and 2x GbE LAN ports
6. 6x SATA3 (6Gbps) ports via SoC2x 8500 RPM Cooling Fan
7. 2x USB 3.0 ports (rear), 2x USB 2.0 ports (via header)
8. 1x SuperDOM, 1x COM, TPM header, GPIO and SMBus headers
9. 12V DC input and ATX Power Source



**16-Core Xeon D**  
**Dual 10G SFP+**  
**7-Year Product Life**

## Specifications

<b>Product SKUs</b>	Motherboard	X10SDV-16C-TLN4F+ (Bulk Pack)
<b>Physical Stats</b>	Form Factor	Mini-ITX
	Dimensions	6.7" x 6.7", (17cm x 17cm)
<b>Processor/Cache</b>	CPU	Intel® Xeon® processor D-1587 FCBGA 1667 supported CPU TDP support 65W, 24MB, 16 Cores, 32 Threads
<b>System Memory</b>	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)
<b>On-Board Devices</b>	Chipset	System on Chip
	SATA	SoC controller for 6 SATA3 (6Gbps) ports; RAID 0,1,5,10 RSTe
	Network Controllers	Dual 10G SFP+ LAN via SoC Dual 1GbE LAN via Intel® i350-AM2 Virtual Machine Device Queues reduce I/O overhead Supports 10GBASE-T and 1000BASE-T 1 Realtek RTL8201N PHY (dedicated IPMI)
	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
	TPM	TPM header
<b>Systems Cooling</b>	Fans	2 x 4cm counter-rotating PWM fan(s) 8500rpm fan(s)
<b>Input / Output</b>	SATA	6 SATA3 (6Gbps) ports
	LAN	2 10G SFP+ LAN ports 2 1GbE RJ45 LAN ports 1 Dedicated IPMI RJ45 LAN port
	USB	2 USB 3.0 ports (rear) 2 USB 2.0 ports (header)
	Video	1 VGA port
	Serial Port / Header	1 COM port (header)
	TPM	1 TPM Header
	DOM	1 SuperDOM (Disk on Module) power connector
	Others	GPIO and SMBus headers
<b>Operating Environment (System)</b>	Operating Temperature Range	5°C - 35°C (41°F - 95°F)
	Non-Operating Temperature Range	-40°C - 60°C (-40°F - 140°F)
	Operating Relative Humidity Range	8% - 90% (non-condensing)
	Non-Operating Relative Humidity Range	5% - 95% (non-condensing)
<b>Chassis (Optimized for X10SDV-16C-TLN4F+ )</b>	1U Chassis	SC504-203B SC505-203B
	Important Chassis Notes	To support the new generation Intel® Xeon® processor-based motherboards, <b>Revision N</b> chassis is recommended. Please talk to your sales representative for details
<b>Expansion Slots</b>	PCI-Express	1 PCI-E 3.0 x16 slot
	M.2	Interface: PCI-E 3.0 x4 Form Factor: M Key 2242/2280

		Support SATA devices
<b>System BIOS</b>	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
<b>Management</b>	Software	Intel® Node Manager IPMI 2.0 KVM with dedicated LAN NMI SUM SuperDoctor® 5 Watch Dog
	Power Configurations	ACPI / APM Power Management CPU Fan auto-off in sleep mode Power-on mode for AC power recovery
<b>PC Health Monitoring</b>	Voltage	Monitors for CPU Cores, +12V, +3.3V, +5V, 1.2V (VDIMM), Chassis intrusion header, System level control
	FAN	Total of four 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	Monitoring for CPU and chassis environment CPU thermal trip support Thermal Monitor 2 (TM2) support PECI
	LED	CPU / System Overheat LED
	Other Features	Chassis intrusion detection Chassis intrusion header 12V DC or ATX Power Source RoHS
<b>Operating Environment</b>	Operating Temperature Range	0°C - 60°C (32°F - 140°F)