

SuperServer 5028D-TN4T



Views: | [Opened](#) | [Rear](#) |

Integrated Board



X10SDV-TLN4F

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Key Features

- ❑ Space-efficient, compact design
- ❑ Network Security Appliance
- ❑ Cloud and Virtualization
- ❑ High Performance NAS Servers
- ❑ Business Critical Applications
- ❑ Small and Medium Business
- ❑ SR-IOV supported (for Xeon D-1541)

1. Intel® Xeon® processor D-1541, Single socket FCBGA 1667; 8-Core, 45W

2. 4x 3.5" Hot-swap drive bays; 2x 2.5" fixed drive bays

3. 1x PCI-E 3.0 x16 (LP), 1x M.2 PCI-E 3.0 x4, MKey 2242/2280

4. Up to 128GB ECC RDIMM DDR4 2400MHz or 64GB ECC/non-ECC UDIMM in 4 sockets

5. Dual 10GbE LAN and Intel® i350-AM2 dual port GbE LAN

6. 250W Flex ATX Multi-output Bronze Power Supply

Note: Image above may show a varied configuration of optional parts. Please refer to parts list for standard parts included.

Specifications

Product SKUs

- SYS-5028D-TN4T** ■ SuperServer 5028D-TN4T (Black)

Motherboard

Super X10SDV-TLN4F

Processor/Cache

- CPU** ■ Intel® Xeon® processor D-1541
 - FCBGA 1667 supported
 - CPU TDP support 45W
 - System-on-Chip

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** ■ 2400/2133/1600/1333MHz ECC DDR4 SDRAM
- 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

- SATA** ■ SoC controller for SATA3 (6Gbps) ports
- Network Controllers** ■ Dual LAN via Intel® i350-AM2 Gigabit Ethernet
 - Dual LAN via SoC 10GBase-T
 - Virtual Machine Device Queues reduce I/O overhead
 - Supports 10GBASE-T, 100BASE-T, and 1000BASE-T, RJ45 output
 - 1x 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
- Graphics** ■ BMC integrated ASPEED AST2400

Input / Output

- SATA** ■ 6x SATA3 (6Gbps) ports
- LAN** ■ 2x RJ45 Gigabit Ethernet LAN ports
 - 2x RJ45 10GBase-T ports
 - 1x RJ45 Dedicated IPMI LAN port
- USB** ■ 2x USB 3.0 ports (rear)
 - 2x USB 2.0 ports (front panel)
- Serial Port** ■ 1x COM port (header)
- DOM** ■ 1x SATA DOM (Disk on Module) power connector
- VGA** ■ 1x VGA Port
- Others** ■ TPM 2.0 header

Chassis

- Form Factor** ■ Mini Tower

- Model** ■ **CSE-721TQ-250B**

Dimensions and Weight

- Height** ■ 9.45" (240mm)
- Width** ■ 8.27" (210mm)
- Depth** ■ 11" (279mm)
- Weight** ■ Gross Weight: 15 lbs (6.8 kg)
- Available Colors** ■ Black

Front Panel

- Buttons** ■ Power On/Off button
 - System Reset button
- LEDs** ■ Power LED
 - Hard drive activity LED
 - Network activity LEDs
 - System Overheat LED

Expansion Slots

- PCI-E** ■ 1x PCI-E 3.0 x16 (Low Profile) slot
 - 1x M.2 PCI-E 3.0 x4, M Key 2242/2280

Drive Bays

- HDD** ■ 4x 3.5" Hot-swappable drive bays
 - 2x 2.5" internal drive bays
- Peripheral** ■ 1x slim DVD-ROM drive bay (shared with 1x 2.5" internal drive bay)

Power Supply

250W Flex ATX Multi-output Bronze Power Supply

- AC Voltage** ■ 100 - 240V, 50 - 60Hz
- +5V** ■ Max:14 Amp; Min:0.5 Amp
- +12V** ■ Max:18 Amp; Min:1 Amp @100V-240V
- 12V** ■ Max: 0.3 Amp
- +3.3V** ■ Max: 12 Amp Min: 0.3Amp
- 5VSB** ■ Max: 2.5 Amp

Certification



Bronze Certified

System BIOS

- BIOS Type** ■ 128Mb SPI Flash EEPROM with AMI UEFI BIOS

Management

- Software
- Intel® Node Manager
 - IPMI (Intelligent Platform Management Interface) 2.0 with KVM support
 - SuperDoctor® 5
 - Watch Dog
 - NMI
 - SUM

- BIOS Features
- Plug and Play (PnP)
 - APM 1.2
 - DMI 2.3
 - PCI 2.3
 - ACPI 1.0 / 2.0 / 3.0 / 4.0
 - USB Keyboard support
 - Hardware BIOS Virus protection
 - SMBIOS 2.7.1
 - UEFI
 - RTC (Real Time Clock) Wakeup

Operating Environment / Compliance

- RoHS
- RoHS Compliant
- Environmental Spec.
- Operating Temperature:
0°C to 40°C (32°F to 104°F)
 - Non-operating Temperature:
-20°C to 60°C (-4°F to 140°F)
 - Operating Relative Humidity:
10% to 85% (non-condensing)
 - Non-operating Relative Humidity:
10% to 95% (non-condensing)

Parts List

Parts List - (Items Included)

	Part Number	Qty	Description
Motherboard / Chassis	MBD-X10SDV-TLN4F	1	Super X10SDV-TLN4F Motherboard
	CSE-721TQ-250B	1	2U Chassis
Air Shroud	MCP-310-00076-0B	1	SYS-5028 series Mylar Air Shroud,RoHS/REACH
Backplane	CSE-SAS-733TQ	1	4x3.5" SAS2/SATA3 backplane w /SES-II
Cable 1	CBL-0483L	1	SATA ,INT,ROUND,ST-ST,29CM,30AWG
Cable 2	CBL-0473L	4	SATA ,INT,ROUND,ST-ST,21CM,30AWG
Cable 3	CBL-0157L	1	CBL,SGPIO,2X4F TO 2X4F,P2.54,RIBBON IN RND TUBE,40CM,28AWG
Parts	MCP-260-00084-0N	1	Standard I/O Shield for A1SRM-LN7F w ith EMI Gasket,RoHS/REACH
Power Supply	PWS-251-1H	1	1U 250W Flex ATX Multi-output Bronze Pow er Supply

Optional Parts List

	Part Number	Qty	Description
DVD-RW	DVM-TEAC-DVDRW-SBT3	-	BLACK TEAC SLIM DVD-RW SATA DRIVE,HF,RoHS/REACH,PBF
DVD Kit	MCP-220-81502-0N	-	Slim SATA DVD kit
Power Cable	CBL-PWEX-0645	-	Big 4 pin male to big 4 pin female, pow er extension 15cm, 20AWG,RoHS/REACH