





SuperServer 5028D-TN4T

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

Integrated Board



[X10SDV-TLN4F](#)

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, M Key 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

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Note: Image above may show a varied configuration or 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	<ul style="list-style-type: none"> ■ Intel® Xeon® processor D-1541 ■ FCBGA 1667 supported ■ CPU TDP support 45W ■ System-on-Chip
System Memory	
Memory Capacity	<ul style="list-style-type: none"> ■ 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	<ul style="list-style-type: none"> ■ Corrects single-bit errors ■ Detects double-bit errors (using ECC memory)
On-Board Devices	
SATA	■ SoC controller for SATA3 (6Gbps) ports

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	<ul style="list-style-type: none"> ■ Power On/Off button ■ System Reset button
LEDs	<ul style="list-style-type: none"> ■ Power LED ■ Hard drive activity LED ■ Network activity LEDs ■ System Overheat LED
Expansion Slots	
PCI-E	<ul style="list-style-type: none"> ■ 1x PCI-E 3.0 x16 (Low Profile) slot ■ 1x M.2 PCI-E 3.0 x4, M Key 2242/2280
Drive Bays	
HDD	<ul style="list-style-type: none"> ■ 4x 3.5" Hot-swap drive bays ■ 2x 2.5" internal drive bays
Peripheral	■ 1x slim DVD-ROM drive bay (shared with 1x 2.5" internal drive bay)

Network Controllers	<ul style="list-style-type: none"> ■ 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	<ul style="list-style-type: none"> ■ Support for Intelligent Platform Management Interface v.2.0 ■ IPMI 2.0 with virtual media over LAN and KVM-over-LAN support
Graphics	<ul style="list-style-type: none"> ■ BMC integrated ASPEED AST2400
Input / Output	
SATA	<ul style="list-style-type: none"> ■ 6x SATA3 (6Gbps) ports
LAN	<ul style="list-style-type: none"> ■ 2x RJ45 Gigabit Ethernet LAN ports ■ 2x RJ45 10GBase-T ports ■ 1x RJ45 Dedicated IPMI LAN port
USB	<ul style="list-style-type: none"> ■ 2x USB 3.0 ports (rear) ■ 2x USB 2.0 ports (front panel)
Serial Port	<ul style="list-style-type: none"> ■ 1x COM port (header)
DOM	<ul style="list-style-type: none"> ■ 1x SATA DOM (Disk on Module) power connector
VGA	<ul style="list-style-type: none"> ■ 1x VGA Port
Others	<ul style="list-style-type: none"> ■ TPM 2.0 header
Management	
Software	<ul style="list-style-type: none"> ■ Intel® Node Manager ■ IPMI (Intelligent Platform Management Interface) 2.0 with KVM support ■ SuperDoctor® 5 ■ Watch Dog ■ NMI ■ SUM

Power Supply	
250W Flex ATX Multi-output Bronze Power Supply	
AC Voltage	<ul style="list-style-type: none"> ■ 100 - 240V, 50 - 60Hz, 5Amp
+5V	<ul style="list-style-type: none"> ■ Max:14 Amp; Min:0.5 Amp
+12V	<ul style="list-style-type: none"> ■ Max:18 Amp; Min:1 Amp @100V-240V
-12V	<ul style="list-style-type: none"> ■ Max: 3 Amp; Min: 0 Amp
+3.3V	<ul style="list-style-type: none"> ■ Max: 12 Amp Min: 0.3Amp
5VSB	<ul style="list-style-type: none"> ■ Max: 2.5 Amp Min: 0 Amp
Certification	 Bronze Certified
System BIOS	
BIOS Type	<ul style="list-style-type: none"> ■ 128Mb SPI Flash EEPROM with AMI UEFI BIOS
BIOS Features	<ul style="list-style-type: none"> ■ 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	<ul style="list-style-type: none"> ■ RoHS Compliant
Environmental Spec.	<ul style="list-style-type: none"> ■ 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

[See Parts List](#)

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