

# SuperServer 5028D-TN4T



Views: | [Front View](#) | [Rear View](#) | [Angled View](#) | [Side View](#) | [Side View](#) |

- [Drivers & Utilities](#)
- [BIOS](#)
- [IPMI](#)
- [Tested Memory](#)
- [Tested M.2 List](#)
- [Manuals](#)
- [OS Certification Matrix](#)
- [Drive Options](#)

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



## 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)

- Intel® Xeon® processor D-1541, Single socket FCBGA 1667; 8-Core, 45W
- 4x 3.5" Hot-swap drive bays; 2x 2.5" fixed drive bays
- 1x PCI-E 3.0 x16 (LP), 1x M.2 PCI-E 3.0 x4, M Key 2242/2280
- Up to 128GB ECC RDIMM DDR4 2400MHz or 64GB ECC/non-ECC UDIMM in 4 sockets
- Dual 10GbE LAN and Intel® i350-AM2 dual port GbE LAN
- 250W Flex ATX Multi-output Bronze Power Supply

## 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

### Management

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

### 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-swap 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

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

### Optional Parts List

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

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