

SuperServer 1028TR-TF



Available Colors: Black

Key Features

Two systems (nodes) in a 1U form factor. Each node supports the following:

1. Dual socket R3 (LGA 2011) supports Intel® Xeon® processor E5-2600 v3 family; QPI up to 9.6GT/s
2. Up to 512GB ECC DDR4 2133MHz; 8x DIMM slots
3. 1x PCI-E 3.0 x16 (in x16) slot
4. 4x 2.5" Hot-swap SAS/SATA HDD bays
5. Single port IB (FDR, 56Gbps), w/ QSFP connector
6. Intel® i350 Dual port GbE LAN
7. I/O ports: 2x SuperDOM, 1x VGA, 1x COM, 2x USB 2.0 (rear)
8. 1000W High-efficiency Power Supply Titanium Level Certified

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

Specifications

Product SKUs

SYS-1028TR-TF ■ SuperServer 1028TR-TF (Black)

Motherboard

Super X10DRT-LIBF

Processor/Cache (per Node)

CPU ■ Intel® Xeon® processor E5-2600 v3 family (up to 145W TDP) *
 ■ Dual Socket R3 (LGA 2011)

Cores / Cache ■ Up to 18 Cores / Up to 45MB Cache

System Bus ■ QPI up to 9.6 GT/s

Note * Please contact Supermicro Technical Support for additional information about frequency optimized CPUs and specialized system optimization.

System Memory (per Node)

Memory Capacity ■ 8x 288-pin DDR4 DIMM slots
 ■ Up to 512GB ECC LRDIMM, 256GB ECC RDIMM

Memory Type ■ 2133/1866/1600MHz ECC DDR4 SDRAM 72-bit

Chassis

Form Factor ■ 1U Twin

Model ■ CSE-809BTQ-1K03B

Dimensions and Weight

Width ■ 17.2" (437mm)

Height ■ 1.7" (43mm)

Depth ■ 27.75" (705mm)

Gross Weight ■ 43 lbs (19.5kg)

Available Colors ■ Black

Front Panel



Buttons ■ Power On/Off button
 ■ System Reset button
 ■ UID button

LEDs ■ Power status LED
 ■ HDD activity LED
 ■ 2x Network activity LEDs
 ■ Universal Information (UID) LED

Expansion Slots (per node)

PCI-Express ■ 1x PCI-E 3.0 x16 (in x16) slot

DIMM Sizes	<ul style="list-style-type: none"> RDIMM: 64GB, 16GB, 8GB, 4GB LRDIMM: 64GB, 32GB
Memory Voltage	<ul style="list-style-type: none"> 1.2 V
Error Detection	<ul style="list-style-type: none"> Corrects single-bit errors
On-Board Devices	
Chipset	<ul style="list-style-type: none"> Intel® C612 chipset
Infiniband	<ul style="list-style-type: none"> Mellanox ConnectX-3 FDR Infiniband 56Gbps Controller
SATA	<ul style="list-style-type: none"> SATA3 (6Gbps); RAID 0, 1, 5, 10
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 ASPEED AST2400 BMC
Network Controllers	<ul style="list-style-type: none"> Intel® i350 Dual Port Gigabit Ethernet Supports 10GBASE-T, 10BASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output
Video	<ul style="list-style-type: none"> ASPEED AST2400 BMC
Input / Output	
Serial ATA	<ul style="list-style-type: none"> 10x SATA3 (6Gbps) ports
LAN	<ul style="list-style-type: none"> 2x RJ45 Gigabit Ethernet LAN ports 1x RJ45 Dedicated IPMI LAN port
Infiniband	<ul style="list-style-type: none"> 1x external QSFP Infiniband connector
USB	<ul style="list-style-type: none"> 2x USB 2.0 ports (rear)
Video	<ul style="list-style-type: none"> 1x VGA port
Serial Port / Header	<ul style="list-style-type: none"> 1x COM port (1 header)
DOM	<ul style="list-style-type: none"> 2x SuperDOM (Disk on Module) ports
Management	
Software	<ul style="list-style-type: none"> Intel® Node Manager IPMI 2.0 NMI SuperDoctor® 5 Watch Dog
Power Configurations	<ul style="list-style-type: none"> ACPI Power Management Power-on mode for AC power recovery

Drive Bays (per node)	
Hot-swap	<ul style="list-style-type: none"> 4x 2.5" Hot-swap HDD trays
Backplane	
SAS/SATA HDD Backplane	
System Cooling (per node)	
Fans	<ul style="list-style-type: none"> 3x 40x56mm counter-rotation PWM fan
Power Supply	
1000W Titanium Level (96%) High-efficiency AC-DC power supply with PMBus and I2C	
AC Input	<ul style="list-style-type: none"> 100-240 V, 50-60 Hz, 11-4.5 Amp
DC Output	<ul style="list-style-type: none"> 4 Amp @ +5V standby 75 Amp @ +12V
Certification	  Titanium Level Certified [Test Report]
System BIOS	
BIOS Type	<ul style="list-style-type: none"> 128Mb SPI Flash EEPROM with AMI BIOS
BIOS Features	<ul style="list-style-type: none"> Plug and Play (PnP) PCI 2.3 ACPI 3.0 / 4.0 USB Keyboard support SMBIOS 2.7.1 UEFI 2.3.1
Operating Environment / Compliance	
RoHS	<ul style="list-style-type: none"> RoHS Compliant
Environmental Spec.	<ul style="list-style-type: none"> Operating Temperature: 10°C to 35°C (50°F to 95°F) Non-operating Temperature: -40°C to 70°C (-40°F to 158°F) Operating Relative Humidity: 8% to 90% (non-condensing) Non-operating Relative Humidity: 5% to 95% (non-condensing)

Parts List

Parts List - (Items Included)

	Part Number	Qty	Description
Motherboard / Chassis	MBD-X10DRT-LIBF	2	Super X10DRT-LIBF Motherboard
	CSE-809BTQ-1K03B	1	1U Chassis
Backplane	BPN-SAS-809TQ	2	Sup 4x2.5ö SAS/SATA hdd; SATA con
Cable 1	CBL-0484L	2	55cm 30AWG SATA S-S cable
Cable 2	CBL-SAST-0641	2	45cm SATA cable S-RA 30AWG,RoHS/REACH
Cable 3	CBL-0488L	4	55cm SATA cable S-RA 30AWG
Cable 4	CBL-CDAT-0662	2	8 pin to 8 pin round SGPIO cable, 61.5cm, 28AWG, pinout 1-1,RoHS/REACH
Riser Card	RSC-R1UTP-E16R	2	,RoHS/REACH,PBF
Heatsink / Retention	SNK-P0047PS	2	1U Passive CPU Heat Sink for X9, X10 Systems Equipped w/ a Narrow ILM MB
Heatsink / Retention	SNK-P0047PW	2	1U Passive Custom Rear CPU Heat Sink for X9, X10 1U Twin, 2U Twin^2 8-DIMM per Node Series Servers
Air Shroud	MCP-310-19015-0N	1	SC813M,SC113M, DP X9DRL-EF/ X9DRL-7F/ X10DRL-i, X9/X10 mylar air shroud, 12"x10" MB,RoHS/REACH
I/O Shield	MCP-260-00061-0N	1	1U I/O Shield for X9DB3/X9DBi/X9DB3-F/X9DBi-F/X10DRL-CT with EMI Gasket,RoHS/REACH

Optional Parts List

	Part Number	Qty	Description
Onsite Service Program	OS4HR3/2/1	-	3/2/1-year onsite 24x7x4 service
Onsite Service Program	OSNBD3/2/1	-	3/2/1-year onsite NBD service
Software	SFT-OOB-LIC	1	OOB Management Package (per node license)
Software	SFT-DCMS-Single	1	DataCenter Management Package (per node license)