

SuperServer 1028TR-T



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. Intel® i350 Dual port GbE LAN
6. I/O ports: 2x SuperDOM, 1x VGA, 1x COM, 2x USB 2.0 (rear)
7. 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-T	▪ SuperServer 1028TR-T (Black)
Motherboard	
<u>Super X10DRT-L</u>	
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
DIMM Config	▪ RDIMM: 64GB, 16GB, 8GB, 4GB

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

Memory		RDIMM: 64GB, 32GB
Memory Voltage	1.2 V	
Error Detection	Corrects single-bit errors	
On-Board Devices		
Chipset	Intel® C612 chipset	
SATA	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	ASPEED AST2400 BMC	
Input / Output		
Serial ATA	10x SATA3 (6Gbps) ports	
LAN	<ul style="list-style-type: none"> 2x RJ45 Gigabit Ethernet LAN ports 1x RJ45 Dedicated IPMI LAN port 	
USB	2x USB 2.0 ports (rear)	
Video	1x VGA port	
Serial Port / Header	1x COM port (1 header)	
DOM	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	4x 2.5" Hot-swap HDD trays
Backplane	
SAS/SATA HDD Backplane	
System Cooling (per node)	
Fans	3x 40x56mm counter-rotation PWM fan
Power Supply	
1000W Titanium Level (96%) High-efficiency AC-DC power supply with PMBus and I2C	
AC Input	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	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	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-L	2	Super X10DRT-L Motherboard
	CSE-809BTQ-1K03B	1	1U Chassis
Backplane	BPN-SAS-809T-P	2	BPN-SAS-809T-O-P
Cable 1	CBL-CDAT-0662	2	8 pin to 8 pin round SGPIO cable, 61.5cm, 28AWG, pinout 1-1,RoHS/REACH
Cable 2	CBL-0484L	2	55cm 30AWG SATA S-S cable
Cable 3	CBL-SAST-0641	2	45cm SATA cable S-RA 30AWG,RoHS/REACH
Cable 4	CBL-0488L	4	55cm SATA cable S-RA 30AWG
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
Power Supply	PWS-1K03A-1R	1	1U 1000W Redundant Power Supply Titanium W/PMbus 76x365x40mm,RoHS/REACH
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
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Optional Parts List

	Part Number	Qty	Description
Onsite Service Program	<u>OS4HR3/2/1</u>	-	3/2/1-year onsite 24x7x4 service
Onsite Service Program	<u>OSNBD3/2/1</u>	-	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)