

SuperServer 6017TR-TQF



Integrated Board



Super X9DRT-IBQF

Available Colors:

Black



Key Features

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

1. Dual Intel® Xeon® processor E5-2600 family; QPI up to 8GT/s
2. Up to 256GB DDR3 1600MHz ECC Registered DIMM; 8x DIMM sockets
3. 1x Low-profile PCI-E 3.0 x16 slot
4. I/O ports: 1 VGA, 1 COM, 2 GbE LAN, 2 USB 2.0 ports, 1 dedicated LAN for system management, 1 InfiniBand port with Connect-X QDR speed
5. 2x 3.5" Hot-swap SATA3 HDD Bays
6. 1280W Digital Switching Power Supply Platinum Level (95%)

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

Specifications

Product SKUs

SYS-6017TR-TQF	■ SuperServer 6017TR-TQF (Black)
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Motherboard

Super X9DRT-IBQF

Processor/Cache (per node)

CPU	<ul style="list-style-type: none"> ■ Intel® Xeon® processor E5-2600 family (up to 130W CPU at 30°C) ■ Dual Socket R (LGA 2011)
Cache	■ Up to 20MB
System Bus	■ QPI up to 8 GT/s

System Memory (per node)

Memory Capacity	<ul style="list-style-type: none"> ■ 8x 240-pin DDR3 DIMM sockets ■ Supports up to 256 GB DDR3 ECC Registered memory (RDIMM) ■ Supports up to 64 GB DDR3 ECC Un-Buffered memory (UDIMM)
Memory Type	■ 1600/1333/1066/800MHz ECC DDR3 SDRAM 72-bit, 240-pin gold-plated DIMMs

Chassis

Form Factor	■ 1U Rackmount
Model	■ CSE-808BT-1K28B

Dimensions

Width	■ 17.2" (437mm)
Height	■ 1.7" (43mm)
Depth	■ 27.75" (705mm)
Gross Weight	■ 40 lbs (18.1kg)
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 status LED ■ HDD activity LED ■ 2x Network activity LEDs ■ Information LED

Expansion Slot(s) (per node)

PCI-Express	■ 1x PCI-E 3.0 x16 Low-profile
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8-AA Sizes	<ul style="list-style-type: none"> 32GB, 16GB, 8GB, 4GB, 2GB, 1GB
Memory Voltage	<ul style="list-style-type: none"> 1.5 V, 1.35 V
Error Detection	<ul style="list-style-type: none"> Corrects single-bit errors Detects double-bit errors (using ECC memory)
On-Board Devices	
Chipset	<ul style="list-style-type: none"> Intel® C602J Chipset
Infiniband	<ul style="list-style-type: none"> Mellanox ConnectX-3 QDR Infiniband 40Gbps Controller
SATA	<ul style="list-style-type: none"> Via Cable for SATA controller SATA 2.0 (3Gbps) & 3.0 (6Gbps) with RAID 0, 1
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 Nuvoton WPCM450 BMC
Network Controllers	<ul style="list-style-type: none"> Intel® i350 Dual Port Gigabit Ethernet Virtual Machine Device Queues reduce I/O overhead Supports 10BASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output 1x Realtek RTL8201N PHY (dedicated IPMI)
Graphics	<ul style="list-style-type: none"> Matrox G200eW
Input / Output (per node)	
Serial ATA	<ul style="list-style-type: none"> 2x SATA 3.0 ports (6Gbps) 4x SATA 2.0 ports (3Gbps)
LAN	<ul style="list-style-type: none"> 2x RJ45 Gigabit Ethernet LAN ports 1x RJ45 Dedicated IPMI LAN port
USB	<ul style="list-style-type: none"> 3x USB 2.0 ports (2x rear + 1x Type A)
VGA	<ul style="list-style-type: none"> 1x VGA port
Serial Port / Header	<ul style="list-style-type: none"> 1x Fast UART 16550 ports (rear/header)
Infiniband	<ul style="list-style-type: none"> 1x external QSFP Infiniband connector

Drive Bays (per node)	
Hot-swap	<ul style="list-style-type: none"> 2x 3.5" Hot-swap SATA HDD trays
Backplane	
1x 1U SAS / SATA backplane	
System Cooling (per node)	
Fans	<ul style="list-style-type: none"> 3x 4cm counter-rotating fans w/ optimal fan speed control
Power Supply with Digital Switching Control & PMBus 1.2	
1280W High-Efficiency (95%+) power supply	
AC Input	<ul style="list-style-type: none"> 1000W Output @ 100-140V, 12-8A, 50-60Hz 1280W Output @ 180-240V, 8-6A, 50-60Hz
DC Output	<ul style="list-style-type: none"> 1000W: +12V/83A; +5Vsb/4A 1280W: +12V/106.7A, +5Vsb/4A
Certification	  Platinum 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) APM 1.2 PCI 2.3 ACPI 1.0 / 2.0 / 3.0 / 4.0 USB Keyboard support SMBIOS 2.7.1 UEFI
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-X9DRT-IBQF	2	Super X9DRT-IBQF Motherboard
	CSE-808BT-1K28B	1	1U Chassis
Backplane	BPN-SAS-808-O-P	1	BPN-SAS-808-O-P
Cable 1	CBL-0201L	1	SATA SET OF 4 51/47/41/37CM. S-RA. 26AWG
Riser Card	RSC-R1U-E16R-O-P	2	RSC-R1U-E16R
Heatsink / Retention	SNK-P0047PS	2	1U Passive CPU Heat Sink for X9 Generation Motherboards w/ Narrow ILM
Heatsink / Retention	SNK-P0047PW	2	1U Passive Customized Rear CPU Heat Sink for X9 Twin Series Motherboards
Power Supply	PWS-1K28P-SQ	1	1U 1280W, redundant single output power supply

Optional Parts List

	Part Number	Qty	Description
QSFP Cable	CBL-0417L	-	39.37" (100cm) QSFP to QSFP QDR
QSFP Cable	CBL-0325L	-	78.74" (200cm) QSFP TO QSFP QDR
QSFP Cable	CBL-0446L	-	118.11" (300cm) QSFP to QSFP QDR
QSFP Cable	CBL-0422L	-	196.85" (500cm) QSFP to QSFP QDR
QSFP Cable	CBL-0467L	-	275.59" (700cm) QSFP to QSFP QDR
QSFP Cable	CBL-0468L	-	590.55" (1500cm) QSFP TO QSFP Fiber QDR