

SuperServer 1027TR-TF



Integrated Board



Super X9DRT-E

Available Colors:

Black



Key Features

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

1. Intel® Xeon® processor E5-2600 family; QPI up to 8GT/s
2. Up to 256GB DDR3 1600MHz ECC Registered DIMM; 8x DIMM sockets
3. Expansion slots: 1x PCI-E 3.0 x16 LP
4. I/O ports: 1 VGA, 1 COM, 2 GbE LAN, 2 USB 2.0 ports, 1 dedicated LAN for system management
5. 4x 2.5" Hot-swap SATA HDD Bays (2x SATA3 and 2x SATA2)
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-1027TR-TF ■ SuperServer 1027TR-TF (Black)

Motherboard

Super X9DRT-E

Processor/Cache

CPU ■ Intel® Xeon® processor E5-2600 family (up to 130W TDP)
 ■ Dual Socket R (LGA 2011)

Cache ■ Up to 20MB

System Bus ■ QPI up to 8 GT/s

System Memory (per node)

Memory Capacity ■ 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

DIMM Sizes ■ 32GB, 16GB, 8GB, 4GB, 2GB, 1GB

Chassis

Form Factor ■ 1U Rackmount

Model ■ CSE-809BTQ-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 ■ Power On/Off button
 ■ UID button

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

Expansion Slot(s) (per node)

PCI-Express ■ 1x PCI-E 3.0 x16 Low-profile

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| 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 |
| SATA | <ul style="list-style-type: none"> Via Cable for SATA controller SATA 2.0 (3Gbps) & 3.0 (6Gbps) with 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 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) |

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| Drive Bays (per node) | |
| Hot-swap | <ul style="list-style-type: none"> 4x 2.5" 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] |

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| 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 |

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| 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 - (Items Included)

| | Part Number | Qty | Description |
|-----------------------|-------------------|-----|---|
| Motherboard / Chassis | MBD-X9DRT-F | 1 | Super X9DRT-F Motherboard |
| | CSE-809BTQ-1K28B | 1 | 1U Chassis |
| Backplane | BPN-SAS-809TQ-O-P | 2 | BPN-SAS-809TQ-O-P |
| Cable 1 | CBL-0157L-01 | 2 | 8 pin to 8 pin ribbon SGPIO cable with tube, 61.5cm, PBF |
| Cable 2 | CBL-0207L | 2 | 59CM SATA ROUND S-S PBF.26AWG |
| Cable 3 | CBL-0226L | 2 | 43CM SATA ROUND S-RA PBF 26AWG |
| Cable 4 | CBL-0227L | 2 | 48CM SATA ROUND S-RA PBF.26AWG |
| Cable 5 | CBL-0228L | 2 | 55CM SATA ROUND S-RA PBF 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 |
| Power Supply | PWS-1K28P-SQ | 1 | 1U Passive Customized Rear CPU Heat Sink for X9 Twin Series |