

SuperServer 1027GR-TRFT

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Available Color: Black

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Integrated Board



X9DRG-HTF

Key Features

1. Dual socket R (LGA 2011) supports Intel® Xeon® processor E5-2600 and **E5-2600 v2** family†
2. Up to 512GB ECC DDR3, up to 1866MHz; 8x DIMM slots
3. 3x PCI-E 3.0 x16 slots (support GPU/Xeon Phi cards), 1x PCI-E 3.0 x8 (in x16) low-profile slot
4. Integrated IPMI 2.0 with KVM and Dedicated LAN
5. Intel® X540 10GBase-T Controller
6. 4x Hot-swap 2.5" SATA3 Drive Bays
7. 1800W Redundant Power Supplies **Platinum Level (94%+)**
8. 10x Counter rotating fans w/ optimal fan speed control
9. Smart server management tools

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

Specifications

Product SKUs

SYS-1027GR-TRFT ■ SuperServer 1027GR-TRFT (Black)

Motherboard

Super X9DRG-HTF

Processor/Cache

CPU

- Dual Socket R (LGA 2011)
- Intel® Xeon® processor E5-2600 and **E5-2600 v2** family† (up to 130W TDP)

Note

† BIOS version 3.0 or above is required

Cache

- Up to 30MB

System Bus

- QPI up to 8 GT/s

GPU/Xeon Phi Support

- M2090, up to 130W CPU at 30°C
- M2075, up to 130W CPU at 35°C
- K10/K20/K20X/K1/K2 (Kepler), up to 130W CPU at 30°C
- Xeon Phi, up to 130W CPU at 30°C

System Memory

Memory Capacity

- 8x 240-pin DDR3 DIMM slots
- Up to 512GB DDR3 ECC LRDIMM
- Up to 256GB DDR3 ECC Registered memory (RDIMM)
- Up to 48GB DDR3 ECC and non-ECC UDIMM

Memory Type

- 1866/1600/1333/1066MHz ECC DDR3 SDRAM 72-bit, 240-pin gold-plated DIMMs

DIMM Sizes

- 32GB, 16GB, 8GB, 4GB, 2GB, 1GB

Memory Voltage

- 1.5 V, 1.35 V

Error Detection

- Corrects single-bit errors
- Detects double-bit errors (using ECC memory)

On-Board Devices

Chipset

- Intel® C602 Chipset

SATA

- SATA 2.0 3Gbps with RAID 0, 1, 5, 10
- SATA 3.0 6Gbps with RAID 0, 1

IPMI

- 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

- Intel® X540 Dual Port 10GBase-T
- Virtual Machine Device Queues reduce I/O overhead
- Supports 10BASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output

Graphics

- Matrox G200eW

Input / Output

Chassis

Form Factor

- 1U Rackmount

Model

- **CSE-118GQ-R1800B**

Dimensions

Height

- 1.7" (43mm)

Width

- 17.2" (437mm)

Depth

- 31" (787mm)

Gross Weight

- 48 lbs (21.8 kg)

Available Color

- Black

Front Panel

Buttons

- Power On/Off button
- System Reset button

LEDs

- Power LED
- Hard drive activity LED
- 2x Network activity LEDs
- System Overheat LED / Fan fail LED / UID LED

Expansion Slots

PCI-Express

- 3x PCI-E 3.0 x16 slots (support GPU/Xeon Phi cards)
- 1x PCI-E 3.0 x8 (in x16) low-profile slot

Drive Bays

Hot-swap

- 4x 2.5" Hot-swap drive bays

System Cooling

Fans

- 10x counter-rotating fans with optimal fan speed control

Power Supply

1800W (1+1) Redundant 1800W power supply with PMBus

AC Input

- 1000W Output @ 100-120V, 12-10A, 50-60Hz
- 1200W Output @ 120-140V, 12-10A, 50-60Hz
- 1800W Output @ 200-240V, 10-8.5A, 50-60Hz

DC Output

- 1000W: +12V/84A; +5Vsb/4A
- 1200W: +12V/100A; +5Vsb/4A
- 1800W: +12V/150A; +5Vsb/4A

Certification



Platinum Certified

PC Health Monitoring

CPU

- Monitors for CPU Cores, +1.5V, +3.3V, +5V, +12V, +5 Stdby, +3.3 Stdby, VBAT, Memory Voltages.
- CPU Core 6-Phase-switching voltage regulator

SATA	<ul style="list-style-type: none"> ■ 2 SATA 3.0 ports (6Gbps) ■ 2 SATA 2.0 ports (3Gbps)
LAN	<ul style="list-style-type: none"> ■ 2x RJ45 10GBase-T ports ■ 1 RJ45 Dedicated IPMI LAN port
USB	<ul style="list-style-type: none"> ■ B 2.0 ports
Video	<ul style="list-style-type: none"> ■ 1 VGA Connector
Keyboard/Mouse	<ul style="list-style-type: none"> ■ 1 PS/2 Keyboard/Mouse port
Serial Port	<ul style="list-style-type: none"> ■ 1 Serial header
System BIOS	
BIOS Type	<ul style="list-style-type: none"> ■ 16Mb SPI Flash EEPROM with AMI® BIOS
BIOS Features	<ul style="list-style-type: none"> ■ Plug and Play (PnP) ■ APM 1.2 ■ DMI 2.3 ■ PCI 2.2 ■ ACPI 1.0 / 2.0 ■ USB Keyboard support ■ Hardware BIOS Virus protection ■ SMBIOS 2.3 ■ UEFI ■ RTC (Real Time Clock) Wakeup

FAN	<ul style="list-style-type: none"> ■ Total of ten 4-pin PWM fans ■ 10x fans with tachometer monitoring ■ Status monitor for speed control ■ Status monitor for on/off control ■ Low noise fan speed control
Temperature	<ul style="list-style-type: none"> ■ Monitoring for CPU and chassis environment ■ CPU thermal trip support ■ Thermal Control for 10x Fan Connectors ■ PSU¹2C temperature sensing logic ■ Thermal Monitor 2 (TM2) support ■ PEC
LED	<ul style="list-style-type: none"> ■ Power Fail / Overheat LED ■ Suspend-state Indicator LED ■ UID LED
Other Features	<ul style="list-style-type: none"> ■ SDDC Support
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

[See Parts List](#)