2027GR-TRF

Available Color: Black

Integrated Board

X9DRG-HF

CITRIX ready

▸ Drivers & Utilities ▸ BIOS ▸ IPMI ▸ Tested Memory ▸ Tested HDD ▸ Manuals ▸ OS Certification Matrix ▸ Compatible GPU List ▸ Quick-References

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 sockets
3. 4x PCI-E 3.0 x16 slots (support GPU/Xeon Phi cards, opt.), 1x PCI-E 3.0 x8 (in x16) slot, 1x PCI-E 2.0 x4 (in x16) slot
4. Integrated IPMI 2.0 with KVM and Dedicated LAN
5. Intel® i350 Dual-Port GbE Controller
6. 10x Hot-swap 2.5" SATA Drive Bays
7. 1800W Redundant Power Supplies **Platinum Level (94%+)**
8. 5x heavy duty cooling fans
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-2027GR-TRF	SuperServer 2027GR-TRF (**Black**)

Motherboard	
Super X9DRG-HF	

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/M2075, up to 130W CPU at 35°C K10/K20/K20X/K1/K2/K40M (Kepler), up to 130W CPU at 35°C Xeon Phi 5110P, up to 130W CPU at 35°C

System Memory	
Memory Capacity	8x 240-pin DDR3 DIMM sockets 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
AHCI SATA	SATA 2.0 3Gbps with RAID 0, 1, 5, 10 SATA 3.0 6Gbps with RAID 0, 1, 5, 10
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® 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) (Both CPUs need to be installed for LAN ports 1 and 2 to be enabled)
Video	Matrox G200eW

Input / Output	
SATA	2 SATA 3.0 ports (6Gbps) 8 SATA 2.0 ports (3Gbps)
LAN	2 RJ45 Gigabit Ethernet LAN ports 1 RJ45 Dedicated IPMI LAN port
USB	2 USB 2.0 ports
Video	1 VGA Connector
Keyboard/Mouse	1 PS/2 Keyboard/Mouse port
Serial Port	1 Serial header

System BIOS	
BIOS Type	128Mb SPI Flash EEPROM with AMI® BIOS
BIOS Features	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

Chassis	
Form Factor	2U Rackmount
Model	**CSE-218G-R1800B**

Dimensions	
Height	3.5" (89mm)
Width	17.2" (437mm)
Depth	31" (787mm)
Gross Weight	54 lbs (24.5 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	4x PCI-E 3.0 x16 slots (support GPU/Xeon Phi cards, option) 1x PCI-E 3.0 x8 (in x16) low-profile slot 1x PCI-E 2.0 x4 (in x16) slot

Drive Bays	
Hot-swap	10x 2.5" Hot-swap drive bays

System Cooling	
Fans	5x 8cm heavy duty 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
FAN	Total of five 4-pin PWM fans 5x fans with tachometer monitoring Status monitor for speed control Status monitor for on/off control Low noise fan speed control
Temperature	Monitoring for CPU and chassis environment CPU thermal trip support Thermal Control for 10x Fan Connectors PSU I^2C temperature sensing logic Thermal Monitor 2 (TM2) support PECI
LED	Power Fail / Overheat LED Suspend-state Indicator LED UID LED
Other Features	SDDC Support

Operating Environment / Compliance	
RoHS	RoHS Compliant
Environmental Spec.	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

Note: Different GPU/Xeon Phi cards require special brackets, for more information please refer to the user's manual

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