2027GR-TRF-FM409

Integrated Board

X9DRG-HF

Available Colors: Black

▸ Drivers & Utilities ▸ BIOS ▸ IPMI ▸ Tested Memory ▸ Tested HDD ▸ OS Certification Matrix ▸ 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. 4 (x16) PCI-E 3.0 slots (GPU card opt.), 1 (x8) PCI-E 3.0 (in x16) slot, and low-profile slot
4. Integrated IPMI 2.0 with KVM and Dedicated LAN
5. Intel® i350 Dual-Port GbE Controller
6. 10x Hot-swap 2.5" SATA3 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 - Discontinued SKU (EOL). Please contact sales-rep for replacement SKUs.

SYS-2027GR-TRF-FM409	SuperServer 2027GR-TRF-FM409 (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	Supports M2090, 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

GPU	4x NVIDIA Tesla M2090 Fermi GPU cards
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	58.5 lbs (26.5 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	4 (x16) PCI-E 3.0 slots (GPU card opt.) 1 (x8) PCI-E 3.0 (in x16) slot 1 (x4) PCI-E 2.0 (in x8) 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	80 PLUS PLATINUM 94% **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

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