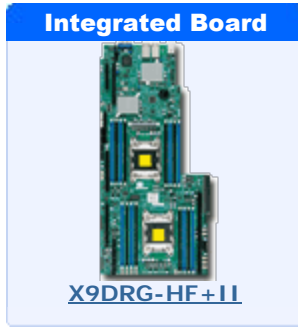


2027GR-TR2



Available Color:

Black



Key Features

1. Dual socket R (LGA 2011) supports Intel® Xeon® processor E5-2600 and **E5-2600 v2** family†
2. Up to 1TB ECC DDR3, up to 1866MHz; 16x DIMM slots
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 and KVM with Dedicated LAN
5. Intel® i350-AM2 Dual port GbE LAN
6. 10x Hot-swap 2.5" SAS/SATA Drive Bays
7. 1600W 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-TR2** ■ SuperServer 2027GR-TR2 (**Black**)

Motherboard

Super X9DRG-HF+II

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

- 16x 240-pin DDR3 DIMM slots
- Up to 1TB DDR3 ECC LRDIMM

Chassis

Form Factor ■ 2U Rackmount

Model ■ **CSE-218GHTS-R1K66B**

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)

| | |
|------------------------|--|
| Memory Capacity | <ul style="list-style-type: none"> Up to 512GB DDR3 ECC Registered memory (RDIMM) Up to 128GB DDR3 ECC and non-ECC UDIMM |
| Memory Type | <ul style="list-style-type: none"> 1866/1600/1333/1066MHz ECC DDR3 SDRAM 72-bit, 240-pin gold-plated DIMMs |
| DIMM 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® C602 Chipset |
| AHCI SATA | <ul style="list-style-type: none"> SATA 2.0 3Gbps with RAID 0, 1, 5, 10 SATA 3.0 6Gbps with RAID 0, 1, 5, 10 |
| SCU SATA | <ul style="list-style-type: none"> SATA 2.0 3Gbps 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-AM2 Dual Port Gigabit Ethernet Virtual Machine Device Queues reduce I/O overhead Supports 10BASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output |
| Graphics | <ul style="list-style-type: none"> Matrox G200eW |

Input / Output

| | |
|--------------------|---|
| AHCI SATA | <ul style="list-style-type: none"> 2x SATA 3.0 ports (6Gbps) 4x SATA 2.0 ports (3Gbps) |
| SCU SATA | <ul style="list-style-type: none"> 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"> 2x USB 2.0 ports |
| Video | <ul style="list-style-type: none"> 1x VGA Connector |
| Serial Port | <ul style="list-style-type: none"> 1x Serial header |

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 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 |

| | |
|--------------------|--|
| PCI-Express | <ul style="list-style-type: none"> 1x PCI-E 3.0 x8 (in x16) low-profile slot 1x PCI-E 2.0 x4 (in x16) slot |
|--------------------|--|

Drive Bays

| | |
|-----------------|---|
| Hot-swap | <ul style="list-style-type: none"> 10x 2.5" Hot-swap SAS/SATA drive bays |
|-----------------|---|

System Cooling

| | |
|-------------|---|
| Fans | <ul style="list-style-type: none"> 5x 8cm heavy duty fans with optimal fan speed control |
|-------------|---|

Ultra Power Supply

1600W 1U Redundant Power Supplies with PMBus

| | |
|---------------------------|---|
| Total Output Power | <ul style="list-style-type: none"> 1000W/1600W |
|---------------------------|---|

| | |
|------------------------------|--|
| Dimension (W x H x L) | <ul style="list-style-type: none"> 73.5 x 40 x 265 mm |
|------------------------------|--|

| | |
|--------------|---|
| Input | <ul style="list-style-type: none"> 100-127Vac / 12.9A Max / 47-63Hz 200-240Vac / 9.5A Max / 47-63Hz |
|--------------|---|

| | |
|-------------|---|
| +12V | <ul style="list-style-type: none"> Max: 82A / Min: 0.1A (100-127Vac) Max: 132A / Min: 0.1A (200-240Vac) |
|-------------|---|

| | |
|---------------|---|
| 12V SB | <ul style="list-style-type: none"> Max: 2A / Min: 0.2A |
|---------------|---|

| | |
|--------------------|--|
| Output Type | <ul style="list-style-type: none"> 25 Pairs Gold Finger Connector |
|--------------------|--|

| | |
|----------------------|---|
| Certification |   Platinum Level [Test Report] |
|----------------------|---|

PC Health Monitoring

| | |
|------------|---|
| CPU | <ul style="list-style-type: none"> 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 | <ul style="list-style-type: none"> 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 | <ul style="list-style-type: none"> Monitoring for CPU and chassis environment CPU thermal trip support Thermal Control for 10x Fan Connectors PSU I²C temperature sensing logic Thermal Monitor 2 (TM2) support PECI |
|--------------------|---|

| | |
|------------|---|
| 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 - (Items Included) | | | |
|-------------------------------|--------------------|-----|---|
| | Part Number | Qty | Description |
| Motherboard / Chassis | MBD-X9DRG-HF+II | 1 | Super X9DRG-HF+II Motherboard |
| | CSE-218GHTS-R1K66B | 1 | 2U Black SC218G Chassis |
| Backplane | BPN-SAS-218A | 1 | SAS Backplane for 2U GPU, x10 2.5 |
| Cable 1 | CBL-0157L | 1 | 8 pin to 8 pin ribbon SGPIO cable with tube , 40cm, PBF |
| Cable 2 | CBL-0460L | 1 | 8 Pin to Two 4 Pin Backplane Power Ext. 28/22cm. 18AWG |
| Cable 3 | CBL-PWEX-0582 | 4 | 8 pin to two 6+2 pin 12V GPU power cable, 30 cm 16/20 AWG,HF,RoHS/REACH,PBF |
| Cable 4 | CBL-0294L-02 | 2 | Cross-over lpass to 4 SATA w/SB. S. 58cm. 30AWG |
| Cable 5 | CBL-0484L | 2 | 55cm 30AWG SATA S-S cable |
| Riser Card | RSC-R2UG-A2E16+II | 1 | RSC-R2UG-A2E16+II |
| Riser Card | RSC-R2UG-E8G-X9 | 1 | RSC-R2UG-E8G-X9-O-P |
| Riser Card | RSC-R2UG-A2E16R+II | 1 | RSC-R2UG-A2E16R+II |
| Riser Card | RSC-R2UG-E16R-X9 | 1 | RSC-R2UG-E16R-X9-O-P |
| Heatsink / Retention | SNK-P0047PS | 1 | 1U Passive CPU Heat Sink for X9, X10 Systems Equipped w/ a Narrow ILM MB |
| Heatsink / Retention | SNK-P0048PS | 1 | 2U Passive CPU Heat Sink for X9, X10 Generation Systems Equipped w/ a Narrow ILM MB |
| Power Supply | PWS-1K66P-1R | 2 | 1U 1600W Redundant Platinum Power Supply 73.5mm width,RoHS/REACH,PBF |

| Optional Parts List | | | |
|-------------------------------|------------------|-----|---|
| | Part Number | Qty | Description |
| GPU Supporting Bracket | MCP-120-00070-0N | - | SC218G-4GPU INTEL-XEON-PHI GPU Supporting Bracket Set (SC218-INTEL-KNIGHTR-GPU-BKT) |