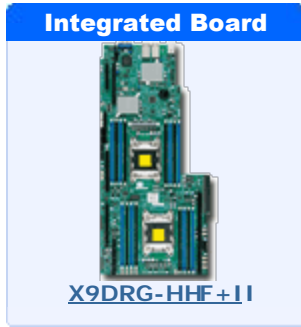


1027GR-TRH2



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. 3x PCI-E 3.0 x16 slots (3x GPU/Xeon Phi cards optional), 1x PCI-E 3.0 x8 (in x16) LP slot
4. Integrated IPMI 2.0 with KVM and Dedicated LAN
5. Intel vPro™ Dual port Ethernet / LAN
6. 4x Hot-swap 2.5" SATA3 Drive Bays
7. 1600W 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-TR2	▪ SuperServer 1027GR-TRV2 (Black)
Motherboard	
Super X9DRG-HHF+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, 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	
▪ 16x 240-pin DDR3 DIMM slots	

Chassis	
Form Factor	▪ 1U Rackmount
Model	▪ CSE-118GH-R1K66B
Dimensions	
Height	▪ 1.7" (43mm)
Width	▪ 17.2" (437mm)
Depth	▪ 30.6" (777mm)
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

Memory Capacity	<ul style="list-style-type: none"> Up to 1TB DDR3 ECC LRDIMM 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
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
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® Yí I €0 ¢Á : €0 ¢Á ^ È / S0P 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"> Nuvoton WPCM450 BMC

Input / Output

SATA	<ul style="list-style-type: none"> 2x SATA3 (6Gbps) ports 2x SATA2 (3Gbps) ports
LAN	<ul style="list-style-type: none"> 2x RJ45 10G 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"> 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 2.3 ACPI 1.0 / 2.0 / 3.0 USB Keyboard support SMBIOS 2.7.1 UEFI

PCI-Express (3x GPU/Xeon Phi cards optional)

- 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

1000W/1600W 1U Redundant Power Supply

- AC Input**
 - 1000W @ 100-127V, 12.9A Max., 50-60Hz
 - 1600W @ 200-240V, 9.5A Max., 50-60Hz

- DC Output**
 - 1000W: +12V/82A; +12Vsb/2A
 - 1600W: +12V/132A; +12Vsb/2A

Certification



Platinum Level
[[Test Report](#)]

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 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**
 - 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**
 - 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

Parts List - (Items Included)

	Part Number	Qty	Description
Motherboard / Chassis	MBD-X9DRG-HVF+II	1	Super X9DRG-HVF+II Motherboard
	CSE-118GH-R1K66B	1	1U Black SC118GQ Chassis
Air Shroud	MCP-310-11802-0N	1	Air Shroud for X9DRG-HF used in SC118GQ-R1800B
Backplane	BPN-SAS-118G-4	1	SAS-118G-4; supports 4X2.5" SATA HDD,
Cable 1	CBL-0460L	1	8 Pin to Two 4 Pin Backplane Power Ext. 28/22cm. 18AWG
Cable 2	CBL-0484L	4	55cm 30AWG SATA S-S cable
Cable 3	CBL-0157L-02	1	8 pin to 8 pin ribbon SGPIO cable, 27cm, PBF
Cable 4	CBL-PWEX-0582	3	8 pin to two 6+2 pin 12V GPU power cable, 30 cm 16/20 AWG,HF,RoHS/REACH,PBF
Cable 5	CBL-0296L	5	4 pin to 4 pin fan extension cord, for PWM fan. 23cm. 24AWG
Riser Card	RSC-R1UG-E16R+II	1	R1UG-E16R+II
Riser Card	RSC-R1UG-AE16B+II	1	RSC-R1UG-AE16B+II
Riser Card	RSC-R1UG-E16A+II	1	R1UG-E16A+II
Riser Card	RSC-R1UG-E16AR+II	1	R1UG-E16AR+II
Heatsink / Retention	SNK-P0047PS	1	1U Passive CPU Heat Sink for X9, X10 Systems Equipped w/ a Narrow ILM MB
Heatsink / Retention	SNK-P0047PSC	1	1U Passive Front CPU Heat Sink w/ a Side Air Channel for X9, X10 Systems Equipped with a Narrow ILM MB