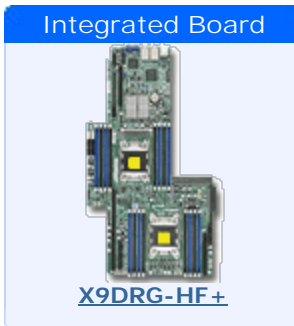


1027GR-TRF+



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 (up to 2x double width GPU/Xeon Phi cards), 1x PCI-E 3.0 x8 low-profile slot
4. Integrated IPMI 2.0 with KVM and Dedicated LAN
5. Intel® i350 Dual port GbE LAN
6. 4x Hot-swap 2.5" SATA3 Drive Bays
7. 1800W Redundant Power Supplies Platinum Level (94%+)
8. 9x 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-TRF+	▪ SuperServer 1027GR-TRF+ (Black)
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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
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GPU/Xeon Phi Support	▪ M2090, up to 130W CPU at 30°C ▪ M2075, up to 130W CPU at 30°C ▪ K10/K20/K20X/K1/K2 (Kepler), up to 130W CPU at 30°C ▪ Xeon Phi, up to 130W CPU at 30°C
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System Memory

Chassis

Form Factor	▪ 1U Rackmount
Model	▪ CSE-118GQTS-R1K8BP

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

▪

Memory Capacity	<ul style="list-style-type: none"> 16x 240-pin DDR3 DIMM slots 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® i350 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	
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"> 2 RJ45 Gigabit Ethernet LAN ports 1 RJ45 Dedicated IPMI LAN port
USB	<ul style="list-style-type: none"> 2 USB 2.0 ports
Video	<ul style="list-style-type: none"> 1 VGA Connector
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

PCI-Express	<ul style="list-style-type: none"> 4x PCI-E 3.0 x16 slots (up to 2x double width GPU/Xeon Phi cards, optional) 1x PCI-E 3.0 x8 low-profile slot
Drive Bays	
Hot-swap	<ul style="list-style-type: none"> 4x 2.5" Hot-swap drive bays
System Cooling	
Fans	<ul style="list-style-type: none"> 9x counter-rotating fans with optimal fan speed control
Power Supply	
1800W (1+1) Redundant 1800W power supply with PMBus	
AC Input	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 1000W: +12V/84A; +5Vsb/4A 1200W: +12V/100A; +5Vsb/4A 1800W: +12V/150A; +5Vsb/4A
Certification	 Platinum Certified
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 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 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

Parts List - (Items Included)

	Part Number	Qty	Description
Motherboard / Chassis	MBD-X9DRG-HF+	1	Super X9DRG-HF+ Motherboard
	CSE-118GQTS-R1K8BP	1	1U Black SC118GQ Chassis
Air Shroud	MCP-310-11802-0N	1	Air Shroud for X9DRG 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-0157L	1	8 pin to 8 pin ribbon SGPIO cable with tube , 40cm, PBF
Cable 3	CBL-0228L	2	55CM SATA ROUND S-RA PBF 26AWG
Cable 4	CBL-0207L	1	59CM SATA ROUND S-S PBF.26AWG
Cable 5	CBL-0227L	1	48CM SATA ROUND S-RA PBF.26AWG
Cable 6	CBL-0296L	5	4 pin to 4 pin fan extension cord, for PWM fan. 23cm. 24AWG
Cable 7	CBL-0333L	4	6+2 pin to 8 pin GPU power extension from MB, 30cm. 18/20AWG
Riser Card	RSC-R1UG-A2E16-X9	1	RSC-R1UG-A2E16-X9
Riser Card	RSC-R1UG-E16R-X9	1	A 1U Right Hand Side Riser Card with PCI-E x16
Riser Card	RSC-R1UG-E16AR-X9	1	A Right Hand Side Riser Card with PCI-E x16
Riser Card	RSC-R1UG-E16-X9	1	RSC-R1UG-E16-X9
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