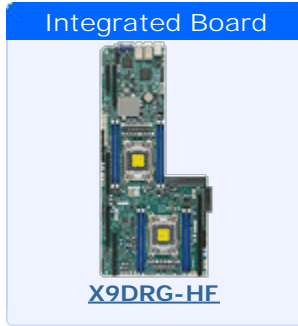


1027GR-TSF



Available Colors:

Black



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. 3x PCI-E 3.0 x16 slots (support GPU/Xeon Phi cards), 1x PCI-E 3.0 x8 (in x16) low-profile slot
4. Integrated IPMI 2.0 with KVM and Dedicated LAN
5. Intel® i350 Dual-Port GbE Controller
6. 4x Hot-swap 2.5" SATA Drive Bays
7. 1800W High-efficiency Power Supply 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-TSF	■ SuperServer 1027GR-TSF (Black)
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Motherboard

Super X9DRG-HF

Processor/Cache

CPU	<ul style="list-style-type: none"> ■ Dual Socket R (LGA 2011) ■ Intel® Xeon® processor E5-2600 and E5-2600 v2 family† (up to 130W TDP)
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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 (Kepler), up to 130W CPU at 30°C
- Xeon Phi, up to 130W CPU at 30°C

System Memory

- 8x 240-pin DDR3 DIMM sockets

Chassis

Form Factor	■ 1U Rackmount
Model	■ CSE-118GQ-1800B

Dimensions

Height	■ 1.7" (43mm)
Width	■ 17.2" (437mm)
Depth	■ 31" (787mm)
Gross Weight	■ 48 lbs (21.8 kg)
Available Color	■ Black

Front Panel

Buttons	<ul style="list-style-type: none"> ■ Power On/Off button ■ System Reset button
LEDs	<ul style="list-style-type: none"> ■ Power LED ■ Hard drive activity LED ■ 2x Network activity LEDs ■ System Overheat LED / Fan fail LED / UID LED

Expansion Slots

- 3x PCI-E 3.0 x16 slots

Memory Capacity	<ul style="list-style-type: none"> 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	<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
Keyboard/Mouse	<ul style="list-style-type: none"> 1 PS/2 Keyboard/Mouse port
Serial Port	<ul style="list-style-type: none"> 1 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	(support GPU/Xeon Phi cards) <ul style="list-style-type: none"> 1x PCI-E 3.0 x8 (in x16) low-profile slot AOC Compatibility Matrix
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Drive Bays


Hot-swap	<ul style="list-style-type: none"> 4x 2.5" Hot-swap drive bays
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System Cooling

Fans	<ul style="list-style-type: none"> 10x counter-rotating fans with optimal fan speed control
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Power Supply

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
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PC Health Monitoring

CPU	<ul style="list-style-type: none"> Monitors for CPU Cores, +1.5V, +3.3V, +5V, +12V, +5 Stdbv, +3.3 Stdbv, 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-118GQ-1800B	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-0157L-02	1	8 pin to 8 pin ribbon SGPIO cable with tube, 27cm, PBF
Cable 2	CBL-0207L	1	59CM SATA ROUND S-S PBF.26AWG
Cable 3	CBL-0227L	1	48CM SATA ROUND S-RA PBF.26AWG
Cable 4	CBL-0228L	2	55CM SATA ROUND S-RA PBF 26AWG
Cable 5	CBL-0296L	5	4 pin to 4 pin fan extension cord, for PWM fan. 23cm. 24AWG
Cable 6	CBL-0333L	3	6+2 pin to 8 pin GPU power extension from MB, 30cm. 18/20AWG
Cable 7	CBL-0460L	1	8 Pin to Two 4 Pin Backplane Power Ext. 28/22cm. 18AWG
Riser Card	RSC-R1UG-E16A-X9	1	RSC-R1UG-E16A-X9-O-P
Riser Card	RSC-R1UG-E16AR-X9	1	A Right Hand Side Riser Card with PCI-E x16
Riser Card	RSC-R1UG-E16B-X9	1	RSC-R1UG-E16B-X9-O-P
Riser Card	RSC-R1UG-E16R-X9	1	A 1U Right Hand Side Riser Card with PCI-E x16
Heatsink / Retention	SNK-P0047PS	1	1U Passive CPU Heat Sink for X9 Generation Motherboards w/ Narrow ILM
Heatsink / Retention	SNK-P0047PSC	1	1U Passive Front CPU Heat Sink for X9DRG-HF 1U GPU Server
Power Supply	PWS-1K81P-1R	1	1800W Platinum Redundant Single Output
Fan 1	FAN-0141L4	10	40x40x56 mm 20.5K RPM / 17.6K RPM Counter-rotating Fan
Drive Tray(s)	MCP-220-00047-0B	4	Black gen 3rd hot-swap 2.5inch HDD tray
Mounting Rails	MCP-290-00054-0N	1 set	Rail set, quick/quick, optional for 1U 17.2
Mounting Rails	MCP-290-00054-0N	1 set	Rail set, quick/quick, optional for 1U 17.2
Mounting Rails	MCP-290-00054-0N	1 set	Rail set, quick/quick, optional for 1U 17.2