

SuperServer F627G2-FT+



Available Colors:

Black



Integrated Board



Super X9DRFF-iG+

Key Features

4 Hot-plug System Nodes in 4U Front I/O. Each node supports:

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 sockets
3. 3x PCI-E 3.0 x16 slots (support 3x Double-width GPU/Xeon Phi cards), 2x PCI-E 3.0 x8 slots
4. Front I/O ports: 2 GbE LAN, 2 USB 2.0, and 1 VGA connector
5. Built-in Server management tool (IPMI 2.0, KVM/media over LAN) with dedicated LAN port
6. 6x 2.5" Hot-swap SATA HDDs
7. 1620W Redundant Power Supplies **Platinum Level (94%+)**

Note: Image above may show a varied configuration or optional parts, Please refer to parts list for standard parts included.

Specifications

Product SKUs

- SYS-F627G2-FT+** ■ SuperServer F627G2-FT+ (**Black**)

Motherboard

Super X9DRFF-iG+

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**
- 3x Double-width GPU/Xeon Phi per node (total of 12x GPU/Xeon Phi cards in 4U)
 - Supports Intel Xeon Phi
 - Supports NVIDIA K10/K20/K20X (Kepler), K1/K2, and M2090/M2075

Chassis

Form Factor ■ 4U Rackmount

Model ■ **CSE-F424BG-R1K62B**

Dimensions

Width ■ 17.63" (448mm)

Height ■ 6.96" (177mm)

Depth ■ 35" (889mm)

Package ■ 25.6" (W) x 11.8" (H) x 48.0" (D)

Weight

- Net Weight: 105 lbs (47.63 kg)
- Gross Weight: 150 lbs (68.04 kg)

Available Colors ■ Black

Front Panel



Buttons

- Power On/Off button
- UID button

LEDs

- Power status LED
- System Overheat / Power Fail LED
- UID LED

System Memory (per node)	
Memory Capacity	<ul style="list-style-type: none"> 16x 240-pin DDR3 DIMM sockets Up to 1TB DDR3 ECC LRDIMM Up to 512GB DDR3 ECC Registered memory (RDIMM) Up to 128GB DDR3 ECC Un-Buffered memory (UDIMM)
Memory Type	<ul style="list-style-type: none"> 1866/1600/1333/1066/800MHz 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
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 1x Realtek RTL8201F PHY (dedicated IPMI)
Graphics	<ul style="list-style-type: none"> Matrox G200eW
Input / Output (per node)	
AHCI SATA	<ul style="list-style-type: none"> 2x SATA 3.0 ports (6Gbps) 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
VGA	<ul style="list-style-type: none"> 1x VGA port
Serial Port / Header	<ul style="list-style-type: none"> 1x Fast UART 16550 port

System Memory (per node)	
PCI-Express	<ul style="list-style-type: none"> 3x PCI-E 3.0 x16 slots (support 3x Double-width GPU/Xeon Phi) 2x PCI-E 3.0 x8 slots
Drive Bays (per node)	
Hot-swap	<ul style="list-style-type: none"> 6x 2.5" Hot-swap SATA HDD bays
System Cooling	
Fans	<ul style="list-style-type: none"> 8x 8cm heavy duty fans with air shroud and PWM fan speed control
Power Supply	
1620W high-efficiency redundant power supply w/ 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 1620W Output @ 180-240V, 10.5-8A, 50-60Hz
DC Output	<ul style="list-style-type: none"> 1000W: +12V/84A; +5Vsb/4A 1200W: +12V/100A; +5Vsb/4A 1620W: +12V/150A; +5Vsb/4A
Certification	  Platinum Certified [Test Report]
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 PCI 2.2 ACPI 1.0 / 2.0 USB Keyboard support SMBIOS 2.3 UEFI
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-X9DRFF-iG+	4	Super X9DRFF-iG+ Motherboard
	CSE-F424BG-R1K62B	1	4U Chassis
Backplane	BPN-SAS-F424-B6	4	6x hot swappable 2.5
Backplane	BPN-ADP-2UGPU-O-P	4	Backplan adapter card for 2UGPU
Backplane	BPN-ADP-F418L-O-P	4	BPN;SASADP;SAS827-H8;H8DTT;cable req
Cable 1	CBL-0157L-02	8	8 pin to 8 pin ribbon SGPIO cable with tube, 27cm, PBF
Cable 2	CBL-0473L	24	21cm 30AWG SATA S-S cable
Cable 3	CBL-0460L-02	4	8 pin Male to two 4 pin Male power cable, 10cm and 7cm. 18AWG
Riser Card	RSC-R2UFF-E16A-O-P	4	RSC-R2UFF-E16A
Riser Card	RSC-R2UFF-2E16B-O-P	4	RSC-R2UFF-2E16
Heatsink / Retention	SNK-P0047PSC	4	1U Passive Front CPU Heat Sink w/ a Side Air Channel for X9, X10 Systems Equipped with a Narrow ILM MB
Heatsink / Retention	SNK-P0047PS	4	1U Passive CPU Heat Sink for X9, X10 Systems Equipped w/ a Narrow ILM MB
Power Supply	PWS-1K62P-1R	4	1620W REDUNDANT POWER MODULE
Mounting Rail	MCP-290-41803-0N	1	Fat twin F418 / F424 Rail set support 28-33.5 inch depth rail,RoHS/REACH,PBF

Optional Parts List

	Part Number	Qty	Description
Bracket for Xeon Phi	MCP-240-42408-0N-PACK	4	System default installed brackets for Nvidia GPUs. This bracket must be ordered if Xeon Phi (MIC) will be implemented
Internal Fan	FAN-0150L4	8	Rear internal fan for cooling enhancement
UIO AOC bracket cover	MCP-240-42412-0N	4	Front bracket cover for UIO Add-On-Card
Software	SFT-OOB-LIC	4	BIOS management capabilities
Software	SFT-DCMS-Single	-	Remote Management - Datacenter Package

Note: Power redundancy is based on configuration. For more information, please refer to user manual.