Where To Buy

English

X9DRFF-7G+

Products ► Motherboards ► Xeon® Boards ► [X9DRFF-7G+]



Optimized for GPU

Key Features

- 1. Dual socket R (LGA 2011) supports Intel® Xeon® processor E5-2600 and E5-2600 v2 family[†]
- 2. Intel® C602 chipset; QPI up to 8.0GT/s
- 3. Up to 1TB ECC DDR3, up to 1866MHz; 16x DIMM slots
- 4. Expansion slots: 1 PCI-E 2.0 x4 (in x8) 1 PCI-E x16, 2 PCI-E x8 Riser card support: PCI-E 3.0 x32 (rear)
- 5. Intel® i350 Dual port GbE LAN
- 6. 4x SATA2 and 2x SATA3 ports
- 7. 8x SAS2 (6Gb/s) ports via LSI 2308
- 8. Integrated IPMI 2.0 and KVM with Dedicated LAN
- 9. 3x USB 2.0 ports (2 rear, 1 Type A)

Links & Resources

- ▶ Tested Memory List
- ▶ Tested HDD / SSD List
- ▶ Motherboard Manual
- ▶ <u>Update Your BIOS</u>
- ▶ BMC/IPMI Firmware
- ▶ Download the Latest **Drivers and Utilities**
- ▶ Download Driver CD
- ▶ Heat Sink Compatibility
- ▶ OS Compatibility

Specifications

MBD- X9DRFF-7G+ -B	■ X9DRFF-7G+ (Bulk Pack)				
Physical Stats					
Form Factor	■ Proprietary				
Dimensions	■ 8.54" x 18.72" (21.7cm x 47.5cm)				
Processor/Cacl	ne				
CPU	■ Intel® Xeon® processor E5-2600 and E5-2600 v2 family [†] (up to 130W TDP **) ■ Dual Socket R (LGA 2011)				
Cache	■ Up to 30MB				
System Bus	QPI up to 8 GT/s				
Note	† BIOS version 3.0 or above is required				
Note	** Motherboard supports this maximum TD Please verify your system can thermally support				
System Memory	У				
Memory Capacity	 16x 240-pin DDR3 DIMM slots Up to 1TB DDR3 ECC LRDIMM Up to 512GB DDR3 ECC RDIMM Up to 128GB DDR3 ECC/non-ECC UDIMM 				
Memory Type	 1866/1600/1333/1066/800MHz* ECC DDR3 SDRAM 72-bit, 240-pin gold-plated DIMMs Support ECC and non-ECC UDIMMs * Maximum memory speed may be capped by CPU. Please verify that the chosen CPU can support desired memory speed. 				
DIMM Sizes	■ 32GB, 16GB, 8GB, 4GB, 2GB, 1GB, 64GB LRDIMM				
Memory Voltage	■ 1.5 V, 1.35 V				
Error	Corrects single-bit errors				

Detects double-bit errors (using ECC

memory)

Detection

1U Chassis	■ CSE-816LT-655B		
Tower / 4U Rackmount	■ CSE-F414IS-R1K62B ■ CSE-F424AG-R1K62B ■ CSE-F424BG-R1K62B		
Important Chassis Notes	■ This motherboard is designed only for FatTwin™ chassis		
SuperServer(s)	with X9DRFF-7G+		
Model(s)	 SYS-F627G3-F73+ SYS-F627G2-F73+ SYS-F617H6-FTL+ SYS-F647G2-F73+ SYS-6017R-73HDP+ 		
Expansion Slot	s		
PCI-Express	 1 PCI-E 3.0 x16 slot (requires riser card) 2 PCI-E 3.0 x8 slots 1 PCI-E 2.0 x4 (in x8) slot Riser card support: PCI-E 3.0 x32 (rear) (Both CPUs need to be installed for full access to PCI-E slots and onboard controllers. See manual block diagram for details.) 		
System BIOS			
BIOS Type	■ 128Mb SPI Flash EEPROM with AMI BIOS		
BIOS Features	 Plug and Play (PnP) APM 1.2 PCI 2.3 ACPI 1.0 / 2.0 / 3.0 / 4.0 USB Keyboard support SMBIOS 2.7.1 UEFI 2.3.1 		
Management			
0 - 5	SuperDoctor® IIIWatch Dog		
Software	■ NMI ■ IPMI 1.5 / 2.0		

On-Board Devices Chipset ■ Intel® C602 chipset SATA 2.0 3Gb/s with RAID 0, 1, 5, 10 SATA 3.0 6Gb/s with RAID 0, 1, 5, 10 **AHCI SATA** SAS2 (6Gb/s) via LSI 2308 SAS ■ SW RAID 0, 1, 10 support Support for Intelligent Platform Management Interface v.2.0 IPMI 2.0 with virtual media over LAN and IPMI KVM-over-LAN support Nuvoton WPCM450 BMC ■ Intel® i350 Dual Port Gigabit Ethernet ■ Virtual Machine Device Queues reduce I/O Network Supports 10BASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output 1x Realtek RTL8201F PHY (dedicated Controllers IPMI) Video Matrox G200eW

Input / Output

Input / Output	
AHCI SATA	2 SATA 3.0 ports (6Gb/s)4 SATA 2.0 ports (3Gb/s)
SAS	■ 8 SAS2 ports (6Gb/s)
LAN	2 RJ45 Gigabit Ethernet LAN ports1 RJ45 Dedicated IPMI LAN port
USB	■ 3 USB 2.0 ports (2 rear + 1 Type A)
Video	■ 1 VGA port
DOM	 1 DOM (Disk on Module) power connector
TPM	■ 1 TPM 1.2 20-pin Header

Configurations • Power-on mode for AC power recovery

PC Health Monitoring				
Voltage	 Monitors for CPU Cores, +1.1V, +3.3V, +5V, +12V, +3.3V Standby, +5V Standby, VBAT, Memory Voltages. 5+1 Phase-switching voltage regulator 			
FAN	 8x 4-pin fan headers Status monitor for speed control Pulse Width Modulated (PWM) fan connectors 			
Temperature	 Monitoring for CPU and chassis environment CPU thermal trip support Thermal Monitor 2 (TM2) support PECI 			
LED	Suspend Static indicator LEDUID/Remote UID			
Other Features	■ RoHS			

Operating Environment

Operating Environment				
Operating Temperature Range	■ 10°C - 35°C (50°F - 95°F)			
Non- Operating Temperature Range	■ -40°C - 70°C (-40°F - 158°F)			
Operating Relative Humidity Range	■ 8% - 90% (non-condensing)			
Non- Operating Relative Humidity Range	■ 5% - 95% (non-condensing)			

Note: For optimized or compatible chassis, additional parts may be required, please check with Supermicro sales rep

Parts List

Parts List (bulk)

	Part Number	Qty	Description
Motherboard	MBD-X9DRFF-7G+	1	X9DRFF-7G+ Motherboard (only comes with server)

Optional Parts List

	Part Number	Qty	Description
Heat Sink (optional, not included)	-	-	CPU Heat Sink reference

Note: X9DRFF-7G+ is for server SKUs (FatTwin™) only, please contact Supermicro sales for more details.

Terms & Conditions | Privacy | Investor Relations | Jobs | Site Map

SuperServer® | Motherboard | Chassis | Rack Cabinet | SuperBlade® | Embedded | Networking | Storage | Accessories | AMD Solution | Power Supplies

Copyright $\ensuremath{@}$ 2016 Super Micro Computer, Inc.

Information in this document is subject to change without notice.

Other products and companies referred to herein are trademarks or registered trademarks of their respective companies or mark holders.