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X9DR3-F

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### **Key Features**

- 1. Dual socket R (LGA 2011) supports Intel® Xeon® processor E5-2600
- 2. Intel® C606 chipset; QPI up to 8.0GT/s
- 3. Up to 512GB DDR3 1600MHz ECC Registered DIMM; 16x DIMM sockets
- 4. Expansion slots: 3 x16 PCI-E 3.0 and 3 x8 PCI-E 3.0
- 5. Intel® i350 Dual port GbE LAN
- 6. 4x SATA2 and 2x SATA3 ports
- 7. 8x SAS ports from C606
- 8. Integrated IPMI 2.0 and KVM with Dedicated LAN
- 9. 11x USB 2.0 ports (4 rear, 6 via header + 1 Type A)

#### Links & Resources

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



#### **Specifications**

Product SKUs				
MBD- X9DR3-F -O	■ X9DR3-F (Standard Retail Pack)			
MBD- X9DR3-F -B	x9DR3-F (Bulk Pack)			
Physical Stats				
Form Factor	■ E-ATX			
Dimensions	■ 12" x 13" (30.5cm x 33.2cm)			
Processor/Cac	he			
СРИ	<ul> <li>Intel® Xeon® processor E5-2600 (up to 135W TDP **)</li> <li>Dual Socket R (LGA 2011)</li> </ul>			
Cache	■ Up to 20MB			
System Bus	■ QPI up to 8 GT/s			
	** Motherboard supports this maximum TDP. Please verify your system can thermally support.			
System Memor	у			
Memory Capacity	<ul> <li>16x 240-pin DDR3 DIMM sockets</li> <li>Supports up to 512 GB DDR3 ECC Registered memory (RDIMM)</li> <li>Supports up to 128 GB DDR3 ECC/non- ECC Un-Buffered memory (UDIMM)</li> </ul>			
Memory Type	<ul> <li>1600/1333/1066/800MHz ECC DDR3 SDRAM 72-bit, 240-pin gold-plated DIMMs</li> <li>Support ECC and non-ECC UDIMMs</li> </ul>			
DIMM Sizes	■ 32GB, 16GB, 8GB, 4GB, 2GB, 1GB			

2U Chassis	■ <u>CSE-825TQ-R740LPB</u>			
3U Chassis	■ <u>CSE-835TQ-R920B</u>			
Tower / 4U Rackmount	■ <u>CSE-745TQ-R920B</u>			
Important Chassis Notes	<ul> <li>To support the new generation Intel® Xeon® processor-based motherboards, Revision M chassis is recommended.</li> <li>Please talk to your sales representative for details.</li> <li>Please use optional I/O shield MCP-260-00041-0N in Supermicro 1U chassis</li> </ul>			
Evmanaian Clas				
Expansion Siot	S			
PCI-Express	<ul> <li>a 3 (x16) PCI-E 3.0 slots</li> <li>a 3 (x8) PCI-E 3.0 slots</li> <li>(Both CPUs need to be installed for full access to PCI-E slots. See manual for details.)</li> </ul>			
Expansion Slot PCI-Express System BIOS	<ul> <li>3 (x16) PCI-E 3.0 slots</li> <li>3 (x8) PCI-E 3.0 slots</li> <li>(Both CPUs need to be installed for full access to PCI-E slots. See manual for</li> </ul>			

■ Plug and Play (PnP)

ACPI 1.0 / 2.0 / 3.0 / 4.0

USB Keyboard supportSMBIOS 2.7.1UEFI

APM 1.2PCI 2.3

# Management

**BIOS** 

**Features** 

Memory Voltage	■ 1.5 V, 1.35 V				
Error Detection	<ul> <li>Corrects single-bit errors</li> <li>Detects double-bit errors (using ECC memory)</li> </ul>				
On-Board Dev	ices				
Chipset	■ Intel® C606 chipset				
AHCI SATA	<ul> <li>SATA 2.0 3Gbps with RAID 0, 1, 5, 10</li> <li>SATA 3.0 6Gbps with RAID 0, 1, 5, 10</li> </ul>				
SCU SATA (Storage Controller)	SATA 2.0 3Gbps with RAID 0, 1, 10				
SAS	<ul><li>SAS from C606</li><li>RAID 0, 1, 10 support</li></ul>				
ІРМІ	<ul> <li>Support for Intelligent Platform</li> <li>Management Interface v.2.0</li> <li>IPMI 2.0 with virtual media over LAN and KVM-over-LAN support</li> <li>Nuvoton WPCM450 BMC</li> </ul>				
Network Controllers	<ul> <li>Intel® i350 Dual Port Gigabit Ethernet</li> <li>Virtual Machine Device Queues reduce I/O overhead</li> <li>Supports 10BASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output</li> <li>1x Realtek RTL8201N PHY (dedicated IPMI)</li> </ul>				
Video	■ Matrox G200eW				
Input / Output					
SATA	<ul><li>2x SATA 3.0 ports (6Gbps)</li><li>4x SATA 2.0 ports (3Gbps)</li></ul>				
SAS	8x SAS/SATA ports				
LAN	<ul><li>2x RJ45 Gigabit Ethernet LAN ports</li><li>1x RJ45 Dedicated IPMI LAN port</li></ul>				
USB	<ul> <li>11x USB 2.0 ports total</li> <li>(4x rear + 6x via header + 1x Type A)</li> </ul>				
Video	■ 1x VGA port				
Serial Port / Header	2x Fast UART 16550 ports: 1 rear and 1 header				

Software	<ul> <li>IPMI (Intelligent Platform Management Interface) v1.5 / 2.0 with KVM support</li> <li>SuperDoctor® III</li> <li>Watch Dog</li> <li>NMI</li> <li>Optional IPMI 1.5 / 2.0</li> </ul>			
Power Configurations	ACPI / APM Power Management Main Switch Override Mechanism CPU Fan auto-off in sleep mode Power-on mode for AC power recovery			
PC Health Monit	oring			
Voltage	<ul> <li>Monitors for CPU Cores, +1.1V, +1.5V, +3.3V, +5V, +12V, +3.3V Standby, +5V Standby, VBAT, 4 Memory Voltages.</li> <li>5+1 Phase-switching voltage regulator</li> </ul>			
FAN	8x 4-pin fan headers (up to 8 fans) 8x fans with tachometer monitoring Status monitor for speed control Status monitor for on/off control Low noise fan speed control Pulse Width Modulated (PWM) fan connectors			
Temperature	<ul> <li>Monitoring for CPU and chassis environment</li> <li>CPU thermal trip support</li> <li>Thermal Control for 8x Fan Connectors</li> <li>I<sup>2</sup>C temperature sensing logic</li> <li>Thermal Monitor 2 (TM2) support</li> <li>PECI</li> </ul>			
LED	■ CPU / System Overheat LED			
Other	<ul> <li>Chassis intrusion detection</li> <li>Chassis intrusion header</li> <li>SDDC Support</li> </ul>			

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

■ 1 DOM (Disk on Module) power connector

## Parts List

## Parts List (retail)

	Part Number	Qty	Description
X9DR3-F	MBD-X9DR3-F	1	X9DR3-F Motherboard
I/O Cables	CBL-0044L	2	SATA CABLE 61CM FLAT S-S PBF
I/O Cables	CBL-0097L-03	2	30AWG 50CM lpass to 4 SATA, W/50cm SB, S
I/O Shield	MCP-260-00042-0N	1	STD I/O shield for X9 socket R server MB with Gasket.
Heat Sink (optional, not included)	-	-	CPU Heat Sink reference

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