

- ▶ [Tested Memory List](#)
- ▶ [Tested HDD / SSD List](#)
- ▶ [Motherboard Manual](#)
- ▶ [Update Your BIOS](#)
- ▶ [IPMI Firmware](#)
- ▶ [Download the Latest Drivers and Utilities](#)
- ▶ [Download Driver CD](#)
- ▶ [Heat Sink Compatibility](#)
- ▶ [OS Compatibility](#)
- ▶ [Product Intro Video](#)

MBD-X9DRX+-F - O	▪ X9DRX+-F (Standard Retail Pack)
MBD-X9DRX+-F - R	▪ X9DRX+-F (Bulk Pack)

Form Factor	▪ Proprietary
Dimensions	▪ 15.2" x 13.

CPU	▪ Dual Socket R (LGA 2011) ▪ Intel® Xeon® processor E5-2600 and E5-2600 v2 family[†] (up to 135W TDP **)
Note	[†] BIOS version 3.0 or above is required
Note	** Motherboard supports this maximum TDP. Please verify your system can thermally support.
Cache	▪ Up to 30MB
System Bus	▪ QPI up to 8 GT/s

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 Detection	▪ Corrects single-bit errors ▪ Detects double-bit errors (using ECC memory)

Chipset	▪ Intel® C602 chipset
AHCI SATA	▪ SATA 2.0 3Gbps w/ RAID 0, 1, 5, 10 ▪ SATA 3.0 6Gbps w/ RAID 0, 1, 5, 10
SCU SATA	▪ SATA 2.0 3Gbps w/ RAID 0, 1, 5, 10
IPMI	▪ Support for Intelligent Platform Management Interface v.2.0 ▪ IPMI 2.0 w/ virtual media over LAN and KVM-over-LAN support ▪ Nuvoton WPCM450 BMC
Network Controllers	▪ 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 RTL8201N PHY (dedicated IPMI)
Video	▪ Matrox G200eW

AHCI SATA	▪ 2x SATA 3.0 ports (6Gbps) ▪ 4x SATA 2.0 ports (3Gbps)
SCU SATA	▪ 4x SATA 2.0 ports (3Gbps)
LAN	▪ 2 RJ45 Gigabit Ethernet LAN ports ▪ 1 RJ45 Dedicated IPMI LAN port
USB	▪ 10 USB 2.0 ports total (4 rear + 4 via header + 2 Type A)
Video	▪ 1 VGA port
Serial Port / Header	▪ 2 Fast UART 16550 ports (1 rear + 1 header)
DOM	▪ 1 DOM (Disk on Module) power connector
TPM	▪ 1 TPM 1.2 20-pin Header

3U Chassis	▪ CSE-835XTQ-R982B
Tower / 4U Rackmount	▪ CSE-747TQ-R1620B
	▪ CSE-747TQ-R1K28B
	▪ CSE-842XTQ-R606B

- To support the new generation Intel® Xeon® processor-based motherboards, **Revision M** chassis is recommended. Please talk to your sales representative for details.

Model(s)

- [SYS-6037R-TXRF](#)
- [SYS-6047R-TXRF](#)

- 10 PCI-E 3.0 x8 slots
- 1 PCI-E 2.0 x4 (in x8) slot

(Both CPUs need to be installed for full access to PCI-E slots and onboard controllers. See manual block diagram for details.)

BIOS Type	▪ 128Mb SPI Flash EEPROM with AMI BIOS
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- BIOS rescue hot keys
- USB Keyboard support
- SMBIOS 2.7.1
- UEFI 2.3.1

- SuperDoctor
- Watch Dog
- NMI
- IPMI 1.5 / 2.0

- ACPI / APM Power Management
- CPU Fan auto-off in sleep mode
- Power-on mode for AC power recovery

- Monitors for CPU Cores, +1.1V, +1.5V, +3.3V, +5V, +12V, +3.3V Standby, +5V Standby, VBAT, Memory Voltages.
- 5+1 Phase-switching voltage regulator

- 6x 4-pin fan headers
- 6x 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

- CPU thermal trip support
- Thermal Control for 8x Fan Connectors
- Thermal Monitor 2 (TM2) support
- PECI

- CPU / System Overheat LED
- Suspend static indicator LED
- UID/Remote UID

- Chassis intrusion detection
- Chassis intrusion header
- SDDC Support
- RoHS
- Dual cooling zones

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)

	Part Number	Qty	Description
X9DRX+-F	MBD-X9DRX+-F	1	X9DRX+-F Motherboard
I/O Cables	CBL-0044L	6	SATA CABLE 61CM FLAT S-S PBF

	Part Number	Qty	Description
Heat Sink (optional, not included)	-	-	CPU Heat Sink reference
TPM security module (optional, not included)	AOM-TPM-9655V AOM-TPM-9655H	-	TPM module w with Infineon 9655, RoHS/REACH,PBF; Vertical or Horizontal depends on the server
SuperDOM	-	-	Supermicro SATA DOM Solutions [Details]