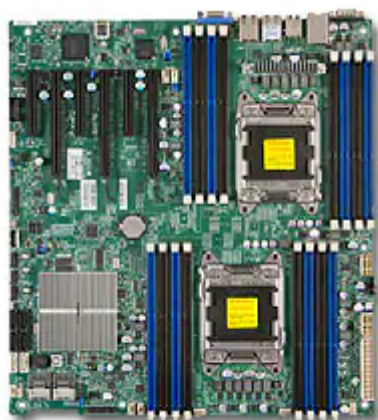



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X9DR3-F

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Key Features

1. Dual socket R (LGA 2011) supports Intel® Xeon® processor E5-2600 and **E5-2600 v2** family†
2. Intel® C606 chipset; QPI up to 8.0GT/s
3. Up to 1TB ECC DDR3, up to 1866MHz; 16x DIMM slots
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](#)
- ▶ [Quick Reference Guide](#)
- ▶ [Update Your BIOS](#)
- ▶ [BMC/IPMI Firmware](#)
- ▶ [Download the Latest Drivers and Utilities](#)
- ▶ [Download Driver CD](#)
- ▶ [Heat Sink Compatibility](#)
- ▶ [OS Compatibility](#)

Specifications

Product SKUs - Discontinued SKU (EOL). Please contact sales-rep for alternative options.

MBD-X9DR3-F -O ■ X9DR3-F (Standard Retail Pack)

MBD-X9DR3-F -B ■ X9DR3-F (Bulk Pack)

Physical Stats

Form Factor ■ E-ATX

Chassis (Optimized for X9DR3-F)

2U Chassis ■ [CSE-825TQ-R740LPB](#)

3U Chassis ■ [CSE-835TQ-R920B](#)

Tower / 4U Rackmount ■ [CSE-745TQ-R920B](#)

Important Chassis Notes

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

| | |
|--------------------------------------|--|
| Dimensions | ■ 12" x 13" (30.5cm x 33.2cm) |
| Processor/Cache | |
| 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 |
| System Memory | |
| 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) |
| On-Board Devices | |
| Chipset | ■ Intel® C606 chipset |
| AHCI SATA | ■ SATA 2.0 3Gb/s with RAID 0, 1, 5, 10 ■ SATA 3.0 6Gb/s with RAID 0, 1, 5, 10 |
| SCU SATA (Storage Controller) | ■ SATA 2.0 3Gb/s with RAID 0, 1, 10 |
| SAS | ■ SAS from C606 ■ RAID 0, 1, 10 support |
| IPMI | ■ 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 | ■ Intel® i350 Dual Port Gigabit Ethernet |

- Please use optional I/O shield MCP-260-00041-0N in Supermicro 1U chassis

Expansion Slots

- 3 (x16) PCI-E 3.0 slots
- 3 (x8) PCI-E 3.0 slots

PCI-Express

(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

Software

- IPMI (Intelligent Platform Management Interface) v1.5 / 2.0 with KVM support
- SuperDoctor® III
- Watch Dog
- NMI
- Optional IPMI 1.5 / 2.0

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 Monitoring

Voltage

- Monitors for CPU Cores, +1.1V, +1.5V, +3.3V, +5V, +12V, +3.3V Standby, +5V Standby, VBAT, 4 Memory Voltages.
- 5+1 Phase-switching voltage regulator

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

- Monitoring for CPU and chassis environment
- CPU thermal trip support
- Thermal Control for 8x Fan Connectors
- I²C temperature sensing logic
- Thermal Monitor 2 (TM2) support

| | |
|-----------------------------|---|
| Controllers | <ul style="list-style-type: none"> 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 | <ul style="list-style-type: none"> Matrox G200eW |
| Input / Output | |
| SATA | <ul style="list-style-type: none"> 2 SATA 3.0 ports (6Gb/s) 4 SATA 2.0 ports (3Gb/s) |
| SAS | <ul style="list-style-type: none"> 8 SAS/SATA ports |
| 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"> 11 USB 2.0 ports total (4 rear + 6 via header + 1 Type A) |
| Video | <ul style="list-style-type: none"> 1 VGA port |
| Serial Port / Header | <ul style="list-style-type: none"> 2 Fast UART 16550 ports: 1 rear and 1 header |
| DOM | <ul style="list-style-type: none"> 1 DOM (Disk on Module) power connector |
| TPM | <ul style="list-style-type: none"> 1 TPM Header |

| | |
|-----------------------|---|
| | <ul style="list-style-type: none"> PECI |
| LED | <ul style="list-style-type: none"> CPU / System Overheat LED |
| Other Features | <ul style="list-style-type: none"> Chassis intrusion detection Chassis intrusion header SDDC Support |

Operating Environment

| | |
|--|--|
| Operating Temperature Range | <ul style="list-style-type: none"> 10°C - 35°C (50°F - 95°F) |
| Non-Operating Temperature Range | <ul style="list-style-type: none"> -40°C - 70°C (-40°F - 158°F) |
| Operating Relative Humidity Range | <ul style="list-style-type: none"> 8% - 90% (non-condensing) |
| Non-Operating Relative Humidity Range | <ul style="list-style-type: none"> 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 (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 Ipass 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. |

Optional Parts List

| | 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 with Infineon 9655, RoHS/REACH,PBF; Vertical or Horizontal depends on the server |
| SuperDOM | - | - | Supermicro SATA DOM Solutions [Details] |

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