

X9DBL-3F

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Key Features

1. Dual socket B2 (LGA 1356) supports Intel® Xeon® processor E5-2400 v2
2. Intel® C606 chipset
3. Up to 384GB DDR3 1600MHz LRDIMM / 192GB RDIMM; 6x DIMM slots
4. Expansion slots: 1 PCI, 3 PCI-E 3.0 x8
1 PCI-E 3.0 x16, 1 PCI-E 3.0 x4 (in x8)
5. Intel® 82574L GbE LAN, 2 ports
6. 4x SATA2 and 2x SATA3 ports
7. 8x SAS/SATA2 ports from C606
8. Integrated IPMI 2.0 and KVM with Dedicated LAN
9. 7x USB 2.0 ports
(2 rear, 4 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-X9DBL-3F -O ■ X9DBL-3F (Standard Retail Pack)

MBD-X9DBL-3F -B ■ X9DBL-3F (Bulk Pack)

Physical Stats

Dimensions ■ 12" x 10" (30.48cm x 25.4cm)

Processor/Cache

CPU ■ Intel® Xeon® processor E5-2400 and E5-2400 v2 (up to 95W TDP **)
■ Dual Socket B2 (LGA 1356)

Cache ■ Up to 25MB

System Bus ■ QPI up to 8 GT/s

** Motherboard supports this maximum TDP. Please verify your system can thermally support

System Memory

Memory Capacity ■ 6x 240-pin DDR3 DIMM slots
■ Up to 384GB DDR3 ECC LRDIMM
■ Up to 192GB DDR3 ECC Registered memory (RDIMM)
■ Up to 48GB DDR3 ECC/non-ECC Un-Buffered memory (UDIMM)

Memory Type ■ 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

SATA ■ SATA 2.0 3Gb/s with RAID 0, 1, 5, 10
■ SATA 3.0 6Gb/s with RAID 0, 1, 5, 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
■ Intel® 82574L Gigabit Ethernet

Chassis (Optimized for X9DBL-3F)

1U Chassis ■ CSE-113MTQ-600CB
■ CSE-813MTQ-350C
■ CSE-813MTQ-441CB
■ CSE-813MTQ-R400CB

2U Chassis ■ CSE-823TQ-653B

3U Chassis ■ CSE-833T-653B

Tower / 4U Rackmount ■ CSE-842TQ-665B
■ CSE-842TQ-865B

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.

Expansion Slots

■ 1x PCI-E 3.0 x16
■ 3x PCI-E 3.0 x8
■ 1x PCI-E 3.0 x4 (in x8)
■ 1x PCI-32

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 ■ 64Mb 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 ■ SuperDoctor® III
■ Watch Dog
■ NM
■ IPMI 1.5 / 2.0

Power Configurations ■ ACPI / APM Power Management
■ 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, Memory Voltages.
■ 5+1 Phase-switching voltage regulator

FAN ■ Six 4-pin fan headers with tachometer monitoring
■ Status monitor for speed control
■ Status monitor for on/off control
■ Low noise fan speed control

Network Controllers	■ Supports 10BASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output ■ 1x Realtek RTL8201F PHY (dedicated IPMI)
Video	■ Matrox G200eW
Input / Output	
SATA	■ 2x SATA 3.0 ports (6Gb/s) ■ 4x SATA 2.0 ports (3Gb/s)
SAS	■ 8x SAS/SATA2 ports
LAN	■ 2x RJ45 Gigabit Ethernet LAN ports ■ 1x RJ45 Dedicated IPMI LAN port
USB	■ 7x USB 2.0 ports total (2 rear + 4 via header + 1 Type A)
Video	■ 1x VGA port
Serial Port / Header	■ 2x Fast UART 16550 ports / 1 rear and 1 header
DOM	■ 1 DOM (Disk on Module) power connector

Temperature	■ Pulse Width Modulated (PWM) fan connectors ■ Monitoring for CPU and chassis environment ■ CPU thermal trip support ■ Thermal Control for 6x Fan Connectors ■ Thermal Monitor 2 (TM2) support ■ PECI
LED	■ CPU / System Overheat LED ■ Suspend static indicator LED ■ UID/Remote UID
Other Features	■ Chassis intrusion detection ■ Chassis intrusion header ■ RoHS, Halogen Free ■ Dual Cooling Zones

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 (retail)			
	Part Number	Qty	Description
X9DBL-3F	MBD-X9DBL-3F	1	X9DBL-3F Motherboard
I/O Cables	CBL-0044L	8	SATA CABLE 61CM FLAT S-S PBF
I/O Shield	MCP-260-00027-0N	1	Std I/O shield for server MB with 3rd LAN + 4xLAN

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

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