X9DBU-3F

Key Features

1. Dual socket B2 (LGA 1356) supports Intel® Xeon® processor E5-2400 v2
2. Intel® C606 chipset
3. Up to 768GB DDR3 1600MHz LRDIMM / 384GB RDIMM; 12x DIMM slots
4. Riser card support:
   Left side - 1x PCI-E 3.0 x24
   Right side - 1x PCI-E 3.0 x8
5. Intel® i350 Dual port GbE LAN
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. 8x USB 2.0 ports
   (2 rear + 4 via header + 2 Type A)

Links & Resources

- 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

Specifications

Product SKUs	
MBD-X9DBU-3F - O	X9DBU-3F (Standard Retail Pack)
MBD-X9DBU-3F - B	X9DBU-3F (Bulk Pack)

Physical Stats	
Form Factor	Proprietary UIO
Dimensions	12" x 13" (30.5cm x 33.0cm)

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	12x 240-pin DDR3 DIMM slots Up to 768GB DDR3 ECC LRDIMM Up to 384GB DDR3 ECC Registered memory (RDIMM) Up to 96GB 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
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
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 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	8x USB 2.0 ports total (2 rear + 4 via header + 2 Type A)
Video	1x VGA port
Keyboard/Mouse	PS/2 Keyboard/Mouse ports
Serial Port / Header	2x Fast UART 16550 ports / 1 rear and 1 header
DOM	1 DOM (Disk on Module) power connector
TPM	1 TPM 1.2 20-pin Header

Chassis (Optimized for X9DBU-3F)	
1U Chassis	CSE-113TQ-R500UB CSE-813T-600UB CSE-815TQ-R500UB
2U Chassis	CSE-825TQ-R740UB
Tower / 4U Rackmount	CSE-417E16-R1K28UB CSE-417E26-R1K28UB CSE-847A-R1K28UB CSE-847E16-R1K28UB CSE-847E26-R1K28UB
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	
PCI-Express	1x PCI-E 3.0 x24 (left hand side riser card support) 1x PCI-E 3.0 x8 (right hand side riser card support) (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 BIOS rescue hot keys USB Keyboard support SMBIOS 2.7.1 UEFI 2.3.1

Management	
Software	SuperDoctor® III Watch Dog NMI 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, 4 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 Pulse Width Modulated (PWM) fan connectors
Temperature	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 indicator Suspend static indicator LED UID/Remote UID
Other Features	Chassis intrusion detection Chassis intrusion header SDDC Support RoHS 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
X9DBU-3F	MBD-X9DBU-3F	1	X9DBU-3F 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-260-00027-0N	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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