

Supermicro MBD-X9DBU-iF, Dual SKT, Intel C602 Chipset, SATA, 2xGbE, IPMI

Part number: MBD-X9DBU-iF-O



Form Factor	ATX
Dimensions	12" x 13"
CPU Socket	LGA 1356 (Socket B2)
# of CPU sockets	2
Supported CPU's	Intel Xeon E5-2400v2 Intel Xeon E5-2400
Chipset	Intel C602 Patsburg
Memory Type	DDR3 ECC LRDIMM DDR3 ECC RDIMM DDR3 ECC UDIMM DDR3 non-ECC UDIMM
Memory Speed	1600 MHz 1333 MHz 1066 MHz 800 MHz
# of DIMM's	12
Max Memory Size	768 GB
# of PCIe x8 3.0	1
# of USB Ports	2 x USB 2.0 (rear) 4 x USB 2.0 (header) 2 x USB 2.0 Type A
# of SATA Ports	10
Storage Controllers	2 x AHCI iSATA 6Gb/s 4 x AHCI iSATA 3Gb/s 4 x sSATA 3Gb/s
Integrated RAID	0,1,5,10
# of Serial Ports	1 x Fast UART 16550 (rear) 1 x Fast UART 16550 (header)
# of 1GbE Ports	2 x RJ45
Network Controllers	Intel i350 Dual Port Gigabit Ethernet
Integrated BMC	IPMI 2.0 KVM-over-LAN Virtual Media over LAN IPMI Dedicated RJ45 PHY
BMC chip	Nuvoton WPCM450
TPM	1 x TPM 1.2 20-pin Header

Product SKUs	<ul style="list-style-type: none"> MBD-X9DBU-IF-B X9DBU-IF (Bulk Pack) 	<ul style="list-style-type: none"> Chassis (Optimized for X9DBU-IF)
Physical Stats	<ul style="list-style-type: none"> Form Factor • Proprietary UIO Dimensions • 12" x 13" (30.5cm x 33.0cm) 	<ul style="list-style-type: none"> 1U Chassis <ul style="list-style-type: none"> CSE-113TQ-R500UB CSE-813T-600UB CSE-413TQ-R500UB 2U Chassis <ul style="list-style-type: none"> CSE-825TQ-R740UB CSE-417E16-R1K28UB CSE-417E26-R1K28UB CSE-847A-R1K28UB CSE-847E16-R1K28UB CSE-847E26-R1K28UB Tower / 4U Rackmount
Processor/Cache	<ul style="list-style-type: none"> • Intel® Xeon® processor E5-2400 and E5-2400 v2 (up to 95W TDP **) • Dual Socket B2 (LGA 1356) 	<ul style="list-style-type: none"> Important Chassis Notes <ul style="list-style-type: none"> • To support the new generation Intel® Xeon® processor-based motherboards, Revision M chassis is recommended. Please talk to your sales representative for details.
Cache	<ul style="list-style-type: none"> • Up to 25MB • QPI up to 8 GT/s 	
System Bus	<ul style="list-style-type: none"> ** Motherboard supports this maximum TDP. Please verify your system can thermally support 	<ul style="list-style-type: none"> SuperServer(s) with X9DBU-IF
System Memory	<ul style="list-style-type: none"> • 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) • 1600/1333/1066/800MHz* ECC DDR3 SDRAM 72-bit, 240-pin gold-plated DIMMs • Support ECC and non-ECC UDIMMs 	<ul style="list-style-type: none"> Model(s) <ul style="list-style-type: none"> SYS-1027B-1RE SYS-6027B-1RE SYS-6017B-1RE SYS-6017B-1NTE
Memory Capacity		<ul style="list-style-type: none"> Expansion Slots <ul style="list-style-type: none"> • 1x PCI-E 3.0 x4 (left hand side riser card support) • 1x PCI-E 3.0 x8 (right hand side riser card support)
Memory Type	<ul style="list-style-type: none"> * Maximum memory speed may be capped by CPU. Please verify that the chosen CPU can support desired memory speed. 	<ul style="list-style-type: none"> PCI-Express <ul style="list-style-type: none"> (Both CPUs need to be installed for full access to PCI-E slots and onboard controllers. See manual block diagram for details.)
DIMM Sizes	<ul style="list-style-type: none"> • 32GB, 16GB, 8GB, 4GB, 2GB, 1GB, 64GB LRDIMM 	<ul style="list-style-type: none"> System BIOS
Memory Voltage	<ul style="list-style-type: none"> • 1.5 V, 1.35 V 	<ul style="list-style-type: none"> BIOS Type <ul style="list-style-type: none"> • 64Mb SPI Flash EEPROM with AMI BIOS • 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
Error Detection	<ul style="list-style-type: none"> • Corrects single-bit errors • Detects double-bit errors (using ECC memory) 	<ul style="list-style-type: none"> BIOS Features
On-Board Devices	<ul style="list-style-type: none"> Chipset • Intel® C602 chipset AHCI SATA • SATA 2.0 3Gbps with RAID 0, 1, 5, 10 • SATA 3.0 6Gbps with RAID 0, 1, 5, 10 SCU SATA • SATA 2.0 3Gbps with RAID 0, 1, 5, 10 • Support for Intelligent Platform Management Interface v.2.0 IPMI • IPMI 2.0 with virtual media over LAN and KVM-over-LAN support • Nuoton WPCM450 BMC • 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 	<ul style="list-style-type: none"> Management <ul style="list-style-type: none"> • SuperDoctor® III • Watch Dog • NMI • IPMI 1.5 / 2.0 • ACPI / APM Power Management • Power-on mode for AC power recovery Power Configuration
Network Controllers		<ul style="list-style-type: none"> PC Health Monitoring <ul style="list-style-type: none"> • 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 • 6x 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 • Monitoring for CPU and chassis environment • CPU thermal trip support • Thermal Control for 6x Fan Connectors • Thermal Monitor 2 (TM2) support • PECC • CPU / System Overheat LED indicator • Suspend static indicator LED • UID/Remote UID • Chassis intrusion detection • Chassis intrusion header • SDDC Support • RoHS • Dual cooling zones
Input / Output	<ul style="list-style-type: none"> AHCI SATA • 2x SATA 3.0 ports (6Gbps) • 4x SATA 2.0 ports (3Gbps) SCU SATA • 4x SATA 2.0 ports (3Gbps) • 2x RJ45 Gigabit Ethernet LAN ports LAN • 1x RJ45 Dedicated IPMI LAN port • 6x USB 2.0 ports total (2 rear + 4 via header + 2 Type A) USB • 1x VGA port Video • PS/2 Keyboard/Mouse ports Keyboard/Mouse • 2x Fast UART 16550 ports / 1 rear and 1 header Serial Port / Header • 1 DOM (Disk on Module) power connector DOM • 1 TPM Header TPM • 1 TPM Header 	<ul style="list-style-type: none"> Voltage FAN Temperature LED Other Features
		<ul style="list-style-type: none"> Operating Environment <ul style="list-style-type: none"> 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

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