

Supermicro MBD-X10SAT, Single SKT, Intel C226 Chipset, SATA, 2xGbE

Part number: MBD-X10SAT-O



Form Factor	ATX
Dimensions	12" x 9.6"
CPU Socket	LGA 1150 (Socket H3)
# of CPU sockets	1
Supported CPU's	Intel Xeon E3-1200v3 Intel Xeon E3-1200v4
Chipset	Intel C226 Lynx Point
Memory Type	DDR3 ECC UDIMM DDR3 non-ECC UDIMM
Memory Speed	1600 MHz 1333 MHz 1066 MHz
# of DIMM's	4
Max Memory Size	32 GB
# of PCIe x16 3.0	3
# of PCIe x1 2.0	3
# of USB Ports	4 x USB 3.0 (rear) 4 x USB 3.0 (header) 2 x USB 2.0 (rear) 4 x USB 2.0 (header)
# of SATA Ports	8
# of SATA DOM power	1
Storage Controllers	6 x AHCI iSATA 6Gb/s 2 x A-SATA 6Gb/s
Integrated RAID	0,1,5,10
# of Serial Ports	1 x Fast UART 16550 (header)
# of 1GbE Ports	2 x RJ45
Network Controllers	Intel i217 Gigabit Ethernet Intel i210 Gigabit Ethernet
TPM	1 x TPM 1.2 20-pin Header

Product SKUs			
MBD-X10SAT • X10SAT (Bulk Pack)		Chassis (Optimized for X10SAT)	
Physical Stats		Mid/Mini Tower Chassis:	<ul style="list-style-type: none"> • SC732D4-903B • SC732G-903B
Form Factor • ATX		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.
Dimensions • 12" x 9.6", (30.48cm x 24.4 cm)		Expansion Slots	
Processor/Cache		PCI-Express	<ul style="list-style-type: none"> • 3x PCI-E 3.0 x16 slots - Function as: 16/NA/NA or 8/8/NA or 8/4/4 • 3x PCI-E 2.0 x1 (in x4) slots
CPU	<ul style="list-style-type: none"> • Intel® Xeon® processor E3-1200 v3/v4 and 4th/5th Gen Core i7/i5/i3, Pentium, Celeron processors • Single Socket H3 (LGA 1150) • A Graphic Integrated CPU is required to have the on-board video functioned. Examples: E3-1265L v3, E3-1275 v3* 	System BIOS	
System Memory		BIOS Type	<ul style="list-style-type: none"> • 128Mb SPI Flash EEPROM with AMI BIOS
Memory Capacity	<ul style="list-style-type: none"> • 4x 240-pin DDR3 DIMM sockets • Supports up to 32 GB DDR3 ECC/non-ECC Un-Buffered memory (UDIMM) 	BIOS Features	<ul style="list-style-type: none"> • DMI (SMBIOS) 2.7 • ACPI 5.0 • USB Keyboard support
Memory Type	<ul style="list-style-type: none"> • 1600MHz ECC/non-ECC DDR3 SDRAM 72-bit, 240-pin gold-plated DIMMs 	Management	
DIMM Sizes	<ul style="list-style-type: none"> • 8GB, 4GB, 2GB, 1GB 	Software	<ul style="list-style-type: none"> • SuperDoctor® 5 • Watch Dog • AMT • vPro
Memory Voltage	<ul style="list-style-type: none"> • 1.5V, 1.35V 	Power Configurations	<ul style="list-style-type: none"> • ACPI / ACPM Power Management • Main Switch Override Mechanism • Power-on mode for AC power recovery • Internal/External modem ring-on
Error Detection	<ul style="list-style-type: none"> • Corrects single-bit errors • Detects double-bit errors (using ECC memory) 	PC Health Monitoring	
On-Board Devices		Voltage	<ul style="list-style-type: none"> • Monitors for CPU Cores, +1.8V, +12V, +3.3V, +5V, +5V Standby, VBAT, HT, Memory, Chipset Voltages. • 5-Phase-switching voltage regulator with auto-sense from 0.8375V-1.60V • Total of five 4-pin fan headers supporting up to 5 fans • 5x fans with tachometer status monitoring • Status monitor for speed control • Status monitor for on/off control • Support 3-pin fans (w/o speed control) • Low noise fan speed control • Pulse Width Modulated (PWM) fan connectors • Monitoring for CPU and chassis environment
Chipset	<ul style="list-style-type: none"> • Intel® C226 Express PCH 	FAN	<ul style="list-style-type: none"> • CPU thermal trip support • FC temperature sensing logic • Thermal Monitor 2 (TM2) support • PECI
SATA	<ul style="list-style-type: none"> • SATA3 via PCH w/ RAID 0, 1, 5, 10 • SATA3 via ASM1061® 	Temperature	<ul style="list-style-type: none"> • CPU / System Overheat LED • +5V Standby alert LED
Network Controllers	<ul style="list-style-type: none"> • Intel® i217LM + Intel® i210AT • Supports 10BASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output 	LED	<ul style="list-style-type: none"> • Chassis intrusion detection
Audio	<ul style="list-style-type: none"> • RealTek ALC1150 High Definition Audio 	Other Features	<ul style="list-style-type: none"> • Chassis intrusion header
Input / Output			
Serial ATA	<ul style="list-style-type: none"> • 6x SATA3 (6Gbps) ports via PCH • 2x SATA3 (6Gbps) ports via ASM1061® 		
LAN	<ul style="list-style-type: none"> • Total of 8x SATA3 ports (6Gbps) • 2x RJ45 Gigabit Ethernet LAN ports 		
USB	<ul style="list-style-type: none"> • 8x USB 3.0 ports (4 rear, 4 via headers) • 6x USB 2.0 ports (2 rear, 4 via headers) 		
Display*	<ul style="list-style-type: none"> • 1x VGA, 1x HDMI, 1x DVI, 1x Thunderbolt 		
Serial Port / Header	<ul style="list-style-type: none"> • 1x COM port (headers) 		
DOM	<ul style="list-style-type: none"> • SATA DOM (Disk on Module) power connector support 		
TPM	<ul style="list-style-type: none"> • 1x TPM Header 		
Firewire	<ul style="list-style-type: none"> • 1x Type B 1394a header 		

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