

Supermicro MBD-X11SAT-F, Single SKT, Intel C236 Chipset, SATA, 2xGbE,M.2 Bulk

Part number: MBD-X11SAT-F-B



Category	Workstation
Form Factor	ATX
Dimensions	12" x 9.6"
CPU Socket	LGA 1151 (Socket H4)
# of CPU sockets	1
Supported CPU's	Intel Xeon E3-1200v5 Intel Xeon E3-1200v6 Intel Core 7th Gen. Intel Core 6th Gen.
Chipset	Intel C236 Skylake
Memory Type	DDR4 ECC UDIMM DDR4 non-ECC UDIMM
Memory Speed	2400 MHz 2133 MHz 1866 MHz 1600 MHz
# of DIMM's	4
Max Memory Size	64 GB
Integrated GPU	Aspeed AST2400
# of PCIe x16 3.0	3
# of USB Ports	1 x USB 3.1 (rear) 2 x USB 3.0 (rear) 4 x USB 3.0 (header) 2 x USB 2.0 (rear) 2 x USB 2.0 (header)
# of SATA Ports	6
Storage Controllers	6 x AHCI iSATA 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 i219LM Port Gigabit Ethernet Intel i210AT Port Gigabit Ethernet
TPM	1 x TPM 1.2 20-pin Header

Product SKUs		Expansion Slots	
MBD-X11SAT-F • X11SAT-F (Bulk Pack)		<ul style="list-style-type: none"> • 3 PCI-E 3.0 x16 • 1 PCI-E 3.0 x1 	
Physical Stats		PCI-E	
Form Factor • ATX		<ul style="list-style-type: none"> • 1 - 5V PCI 32bit • ***3 PCIex16 slots are running at 16/NA/16 or 16/8/8.*** **PCIe x1 is in x4 slot*** 	
Dimensions • 12" x 9.6" (30.48cm x 24.38cm)			
Processor/Cache		System BIOS	
CPU	<ul style="list-style-type: none"> • Intel® 6th/7th Generation Core™ i3 series • Intel® 6th/7th Generation Core™ i5 series • Intel® 6th/7th Generation Core™ i7 series • Intel® Xeon® Processor E3-1200 v6/v5 series • Socket H4 (LGA 1151) supported; CPU TDP support Up to 95W TDP • BIOS version 2.0 or above is required to support 7th Generation Intel® Core™ i3 Processors and Intel® Xeon® Processor E3-1200 v6 series 	BIOS Type	<ul style="list-style-type: none"> • AMI UEFI • Plug and Play (PnP) • DMI 2.3 • PCI 3.0 • ACPI 5.0 • USB Keyboard support • Hardware BIOS Virus protection • SMBIOS 3.0 • UEFI 2.3.1 • RTC (Real Time Clock) Wakeup
	Note	BIOS Features	<ul style="list-style-type: none"> • SuperDoctor® 5 • Watchdog • ACPI Power Management • Keyboard Wakeup from Soft-Off • CPU Fan auto-off in sleep mode • Power-on mode for AC power recovery
System Memory		Management	
Memory Capacity	<ul style="list-style-type: none"> • Up to 64GB Unbuffered ECC/non-ECC UDIMM, DDR4-2400MHz, in 4 DIMM slots 	Software	<ul style="list-style-type: none"> • IPMI2.0 • SPM • SuperDoctor® 5 • Watchdog • ACPI Power Management • Keyboard Wakeup from Soft-Off • CPU Fan auto-off in sleep mode • Power-on mode for AC power recovery
Memory Type	<ul style="list-style-type: none"> • 2400/2133/1866/1600MHz ECC DDR4 SDRAM 72-bit, 288-pin (UDIMM) gold-plated DIMMs 	Power Configurations	
DIMM Sizes	<ul style="list-style-type: none"> • 4GB, 8GB, 16GB 	PC Health Monitoring	
Memory Voltage	<ul style="list-style-type: none"> • 1.2V 	Voltage	<ul style="list-style-type: none"> • +12V, +3.3V, +5V, +5V standby, Chassis intrusion header, Monitors CPU voltages, VBAT
Error Detection	<ul style="list-style-type: none"> • Corrects single-bit errors • Detects double-bit errors (using ECC memory) 	FAN	<ul style="list-style-type: none"> • 5x 4-pin fan headers (up to 5 fans) • Fan speed control • Overheat LED indication • CPU thermal trip support • I2C temperature sensing logic
On-Board Devices		Temperature	<ul style="list-style-type: none"> • PECI • Thermal Monitor 2 (TM2) support • CPU / System Overheat LED • Suspend static indicator LED • UID/Remote UID • 8-pin 12v DC power connector • ATX Power connector • Control of power-on for recovery from AC power loss • CPU thermal trip support for processor protection • Intel Smart Response Technology • WOL
Chipset	<ul style="list-style-type: none"> • Intel® C236 • Intel® C236 controller for 6 SATA3 (6 Gbps) ports; RAID 0,1,5,10 	LED	
SATA	<ul style="list-style-type: none"> • + 1 PCIe M.2(PCIe x4, 2242/2260/2280)(No Raid Support) 	Other Features	
Network Controllers	<ul style="list-style-type: none"> • Single Intel® Ethernet Controller I210-AT • + Single Intel Ethernet PHY i219LM 		
Audio	<ul style="list-style-type: none"> • ALC 888S HD Audio 		
Graphics	<ul style="list-style-type: none"> • Aspeed AST2400 BMC 		
Input / Output			
USB	<ul style="list-style-type: none"> • 4 USB 2.0 ports (2 rear, 2 via header(s)) • 6 USB 3.0 ports (2 rear, 4 via header(s)) • 1 USB 3.1 (10 Gb/s) Type C ports (Rear, share with Thunderbolt and Display port) 		
Video Output	<ul style="list-style-type: none"> • 1 DVI - D port(s), 1 DP (DisplayPort) port(s), 1 HDMI port(s), 1 VGA port(s) 		
Serial Port / Header	<ul style="list-style-type: none"> • 1 COM Port (1 header(s)) 		
TPM	<ul style="list-style-type: none"> • 1 TPM 2.0 Header 		
Others	<ul style="list-style-type: none"> • Support Thunderbolt(USB3.1 only, Full Thunderbolt functions need to do firmware update to enable that will be only posted to Supermicro web site after Intel released dedicated ID 		

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<https://www.superstorage.pl/supermicro-mbd-x11sat-single-skt-intel-c236-chipset-sata-2xgbem2-bulk-p-2992.html>