

X11SAE-F

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Workstation

Key Features

1. Single socket H4 (LGA 1151) supports Intel® Xeon® processor E3-1200 v5/v6, Intel® 6th/7th Gen. Core™ i7/i5/i3 series, Intel® Celeron® and Intel® Pentium®
2. Intel® C236 chipset
3. Up to 64GB Unbuffered ECC/non-ECC UDIMM DDR4 2400MHz; 4 DIMM slots
4. 2 PCI-E 3.0 x16 (run at 16/NA or 8/8), 2 PCI-E 3.0 x1, and 2 5V PCI 32-bit slots
5. Single GbE LAN with Intel® i210-AT (Share with IPMI); single GbE LAN with Intel® i219LM
6. 8 SATA3 (6Gbps) via C236; RAID 0, 1, 5, 10 + 1 PCI-E M.2 (support PCI-E x4 only, 2242/2260/2280)
7. I/O: 1 VGA, 2 COM, TPM header
8. 6 USB 3.0 (2 rear + 4 via header(s))
6 USB 2.0 (2 rear + 4 via header(s))
2 USB 3.1 (10Gbps, rear)

Links & Resources

- ▶ [Tested Memory List](#)
- ▶ [Tested HDD / SSD List](#)
- ▶ [Tested M.2 List](#)
- ▶ [Tested AOC List](#)
- ▶ [Motherboard Manual](#)
- ▶ [Quick Reference Guide](#)
- ▶ [Update Your BIOS](#)
- ▶ [BMC/IPMI Firmware](#)
- ▶ [Download the Latest Drivers and Utilities](#)
- ▶ [Download Drivers CD](#)
- ▶ [OS Compatibility](#)
- ▶ [Guide to enable Keyboard and Mouse under Windows 7 Installation](#)

Specifications

Product SKUs	
MBD-X11SAE-F	■ X11SAE-F
Physical Stats	
Form Factor	■ ATX
Dimensions	■ 12" x 9.6" (30.48cm x 24.38cm)
Processor/Cache	
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. ■ Socket H4 (LGA 1151) supported, CPU TDP support Up to 95W TDP ■ A graphic integrated CPU is needed to have on-board video from DVI and DP ports. Examples: E3-1235L v5, E3-1275 v5
Note	<ul style="list-style-type: none"> ■ BIOS version 2.0 or above is required to support 7th Generation Intel® Core™ i3 Processors and Intel® Xeon® Processor E3-1200 v6 series
System Memory	
Memory Capacity	<ul style="list-style-type: none"> ■ Up to 64GB Unbuffered ECC/non-ECC UDIMM, DDR4-2400MHz, in 4 DIMM slots ■ 4x 288-pin DDR4 DIMM slots, Up to 64GB DDR4 ECC UDIMM
Memory Type	<ul style="list-style-type: none"> ■ 2400/2133/1866/1600MHz ECC DDR4 SDRAM 72-bit, 288-pin (UDIMM) gold-plated DIMMs
DIMM Sizes	■ 4GB, 8GB, 16GB
Memory Voltage	■ 1.2V
Error Detection	<ul style="list-style-type: none"> ■ Corrects single-bit errors ■ Detects double-bit errors (using ECC memory)
On-Board Devices	
Chipset	■ Intel® C236
SATA	<ul style="list-style-type: none"> ■ Intel® C236 controller for 8 SATA3 (6 Gbps) ports; RAID 0,1,5,10 ■ + 1 PCI-E M.2(PCI-E x4, 2242/2260/2280) (No Raid support)
IPMI	<ul style="list-style-type: none"> ■ OOB Bios refresh function is not supported ■ Single LAN with Intel® Ethernet Controller

Expansion Slots	
PCI-E	<ul style="list-style-type: none"> ■ 2 PCI-E 3.0 x16, ■ 2 PCI-E 3.0 x12 - 5V PCI 32bit ■ ****2 PCI-E x16 slots are running at x16/NA or x8/x8 ***
M.2	<ul style="list-style-type: none"> ■ M.2 Interface: 1 PCI-E 3.0 x4 ■ Form Factor: 2242/2260/2280 ■ Key: M-Key
System BIOS	
BIOS Type	■ AMI UEFI
BIOS Features	<ul style="list-style-type: none"> ■ 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
Management	
Software	<ul style="list-style-type: none"> ■ IPMI2.0, SPM, SuperDoctor® 5, Watchdog
Power Configurations	<ul style="list-style-type: none"> ■ ACPI Power Management ■ Keyboard Wakeup from Soft-Off ■ CPU Fan auto-off in sleep mode ■ Power-on mode for AC power recovery
PC Health Monitoring	
Voltage	<ul style="list-style-type: none"> ■ +12V, +3.3V, +5V, +5V standby, Chassis intrusion header, Monitors CPU voltages, VBAT
FAN	<ul style="list-style-type: none"> ■ 5x 4-pin fan headers (up to 5 fans), Fan speed control, Overheat LED indication
Temperature	<ul style="list-style-type: none"> ■ CPU thermal trip support, I2C temperature sensing logic, PECI, Thermal Monitor 2 (TM2) support
LED	<ul style="list-style-type: none"> ■ CPU / System Overheat LED, Suspend static indicator LED, UID/Remote UID
Other Features	<ul style="list-style-type: none"> ■ 8-pin 12v DC power connector, ACPI power management, 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

Network Controllers

I210-AT
(Share with IPMI)
Single LAN with Intel® PHY I219LM LAN controller

Audio

■ ALC 888S HD Audio

Graphics

■ Aspeed AST2400 BMC
■ ***VGA is for IPMI only***

Input / Output

USB

■ 6 USB 2.0 ports (2 rear + 4 headers)
■ 6 USB 3.1 Gen1 ports (2 Rears Type A, 4 headers)
■ 2 USB 3.1 Gen2 ports , 2 Type A)

Video Output

■ 1 DVI - D port, 1 DP (DisplayPort) port, 1 HDMI port, 1 VGA port,
■ ***VGA is for IPMI only***

Serial Port / Header

■ 2 COM Ports (2 headers)

TPM

■ 1 TPM Header

Operating Environment

Operating Temperature Range ■ 0°C ~ 50°C (32°F ~ 122°F)

Note: For optimized or compatible chassis, additional parts may be required, please check with Supermicro sales rep

Parts List

Parts List (Bulk Package)			
Name	Part Number	Qty	Description
Motherboard	MBD-X11SAE-F	1	X11SAE-F Motherboard
SATA cable	CBL-0044L	2	57.5CM SATA FLAT S-S PBF
IO shield	MCP-260-00063-1N	1	X11SAE-F I/O Shield

Parts List (Retail Package)			
Name	Part Number	Qty	Description
Motherboard	MBD-X11SAE-F	1	X11SAE-F Motherboard
Quick Reference Guide	MNL-1820-QRG	1	X11SAE-F Quick Reference Guide
SATA cable	CBL-0044L	6	57.5CM SATA FLAT S-S PBF
IO shield	MCP-260-00063-1N	1	X11SAE-F I/O Shield

Chassis (Optimized for X11SAE-F)

Embedded Compact	1U	2U	3U	Mid/Mini-Tower	4U/Tower
				<div>● SC732D4-903B ● SC732D4-865B SCG55A-753K SCG55A-753R SC732D3-1200B SC733TQ-668B SC732D4F-903B SC732D2-903B 2U Heatsink:SNK-P0046A4</div>	<div>● SC743TQ-1200B-SQ SC743AC-1200B-SQ SC745BAC-R1K28B2 SC842TQC-668B 2U Heatsink:SNK-P0046A4</div>

● = Most optimized Chassis for SuperServer Configuration
Blue color = Compatible
Green color = Global SKU & Compatible
Red dot & green color = Optimized + Global SKU

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