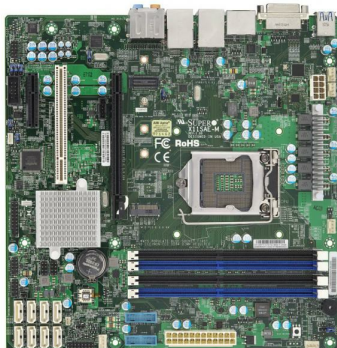


X11SAE-M

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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. 1 PCI-E 3.0 x16, 1 PCI-E 3.0 x4, and 1x 5V PCI 32-bit slots
5. Single GbE LAN with Intel® i210-AT, 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, 2242/2260/2280/22110)
7. 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](#)
- ▶ [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-M ■ X11SAE-M

Physical Stats

Form Factor ■ Micro-ATX

Dimensions ■ 9.6" x 9.6" (24.38cm x 24.38cm)

Processor/Cache

CPU

- 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 required to have the on-board video functioned. Examples: E3-1265L v3, E3-1275 v3

Note

- 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 ■ Up to 64GB Unbuffered ECC/non-ECC UDIMM, DDR4-2400MHz, in 4 DIMM slots

Memory Type ■ 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

- Corrects single-bit errors
- Detects double-bit errors (using ECC memory)

On-Board Devices

Chipset ■ Intel® C236

SATA

- Intel® C236 controller for 8 SATA3 (6 Gbps) ports; RAID 0,1,5,10
- + 1 PCI-E M.2(PCI-E x4, 2242/2260/2280/22110)(No Raid Support)

Network Controllers

- Single LAN with Intel® Ethernet Controller i210-AT
- Single LAN with Intel® PHY i219LM LAN controller

Audio ■ ALC 888S HD Audio

Graphics ■ ***DP support up to DP1.2, HDMI support up to HDMI1.4***

Expansion Slots

PCI-E

- 1 PCI-E 3.0 x16,
- 1 PCI-E 3.0 x41 - 5V PCI 32bit

M.2

- 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

- 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 ■ AMT, SuperDoctor® 5, vPro, Watchdog

Power Configurations

- 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

- +12V, +3.3V, +5V, +5V standby, Chassis intrusion header, Monitors CPU voltages, VBAT

FAN

- 5x 4-pin fan headers (up to 5 fans), Fan speed control, Overheat LED indication

Temperature

- CPU thermal trip support, I2C temperature sensing logic, PECI, Thermal Monitor 2 (TM2) support

LED

- CPU / System Overheat LED, Suspend static indicator LED, UID/Remote UID

Other Features

- 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

Operating Environment

Operating Temperature Range

- 0°C ~ 50°C (32°F ~ 122°F)

LAN

- 2 RJ45 Gigabit Ethernet LAN ports

USB

- 6 USB 2.0 ports (2 rear + 4 headers)
- 6 USB 3.1 Gen1 ports(2 rears, 4 headers)
- 2 USB 3.1 Gen2 ports , 2 Type A); 2 USB 3.1 (10 Gb/s) ports (2 Rear)

Video Output

- 1 DVI - D port, 1 DP (DisplayPort) port, 1 HDMI port,
- ***DP support up to DP1.2, HDMI support up to HDMI1.4***

Serial Port / Header

- 1 COM Port (1 header)

TPM

- 1 TPM Header

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-M	1	X11SAE-M Motherboard
SATA cable	CBL-0044L	2	57.5CM SATA FLAT S-S PBF
IO shield	MCP-260-00063-1N	1	X11SAE-M I/O Shield

Parts List (Retail Package)			
Name	Part Number	Qty	Description
Motherboard	MBD-X11SAE-M	1	X11SAE-M Motherboard
Quick Reference Guide	MNL-1819-QRG	1	X11SAE-M Quick Reference Guide
SATA cable	CBL-0044L	4	57.5CM SATA FLAT S-S PBF
IO shield	MCP-260-00063-1N	1	X11SAE-M I/O Shield

Chassis (Optimized for X11SAE-M)

Embedded Compact	1U	2U	3U	Mid/Mini-Tower	4U/Tower
				<div><div></div><div>SC731i-300B</div><div>SC732D4-500B</div><div>SC731i-403B</div><div>SCDS3A-261B</div><div>SC731D-300B</div><div>SC732I-500B</div><div>SC732i-865B</div><div>SC732I-R500B</div><div>SC732D2-903B</div><div>SC732D2-865B</div><div>SC732D2-500B</div><div>SC732D3-1200B</div><div>SC732D3-903B</div><div>SC732D4-865B</div><div>SC732D4-903B</div><div>SC732D4F-903B</div><div>SC732D4F-865B</div><div>SC732D4F-500B</div><div>SC733TQ-668B</div><div>SC733E-500B</div><div>SC733I-500B</div><div>SC733T-500B</div><div>SC733TQ-500B</div><div>2U Heatsink:SNK-P0046A4</div></div>	<div><div></div><div>SC745BAC-R1K28B2</div><div>SC743AC-1200B-SQ</div><div>SC743AC-668B</div><div>SC743TQ-865B</div><div>SC743TQ-865B-SQ</div><div>SC743TQ-903B</div><div>SC743TQ-1200B-SQ</div><div>SC743TQ-1200B</div><div>SC745BTQ-R1K28B</div><div>SC745BTQ-R1K28B-SQ</div><div>SC745BTQ-R1K28B-SQ</div><div>SC745TQ-800B</div><div>SC745TQ-920B</div><div>SC745TQ-R1200B</div><div>SC745TQ-R920B</div><div>SC745TQ-R800B</div><div>2U Heatsink:SNK-P0046A4</div></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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