Key Features



Workstation

- 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 Întel® 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)

LED

Temperature

- 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 Driver CD
- OS Compatibility
- ▶ Guide to enable Keyboard and Mouse under Windows 7 Installation

Specifications

Product SKUs				
MBD- X11SAE-F	■ X11SAE-F			
Physical Stats	3			
Form Factor	■ ATX			
Dimensions	■ 12" x 9.6" (30.48cm x 24.38cm)			
Processor/Ca	che			
CPU	 Intel® 6th/7th Generation Core™ i3 series, Intel® 6th/7th Generation Core™ i5 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 Memo	ry			
Memory Capacity	 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	 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)			

Expansion Slots	5
	 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	M.2 Interface: 1 PCI-E 3.0 x4Form Factor: 2242/2260/2280Key: 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	 IPMI2.0, SPM, SuperDoctor® 5, 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 Monit	toring
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

■ CPU thermal trip support, I2C

■ CPU / System Overheat LED,

temperature sensing logic, PECI, Thermal Monitor 2 (TM2) support

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)(No Raid support)	
IPMI	 OOB Bios refresh function is not supported 	
Network Controllers	■ Single LAN with Intel® Ethernet Controller I210-AT (Share with IPMI) Single LAN with Intel® PHY I219LM LAN controller	
Audio	ALC 888S HD Audio	
Graphics	aphics Aspeed AST2400 BMC ***VGA is for IPMI only***	

	Suspend static indicator LED, UID/Remote UID
Other Features	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

Operating Environment

Operating
Temperature
Range

perature 0°C ~ 50°C (32°F ~ 122°F)

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

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	umber 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
				SC732D4-903B SC732D4-865B SCGS5A-753K SCGS5A-753R SC732D3-1200B SC733TQ-668B SC732D4F-903B SC732D2-903B 2U Heatsink:SNK-P0046A4	SC743TQ- 1200B-SQ SC743AC- 1200B-SQ SC745BAC- R1K28B2 SC842TQC- 668B 2U Heatsink: SNK- P0046A4

 = 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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