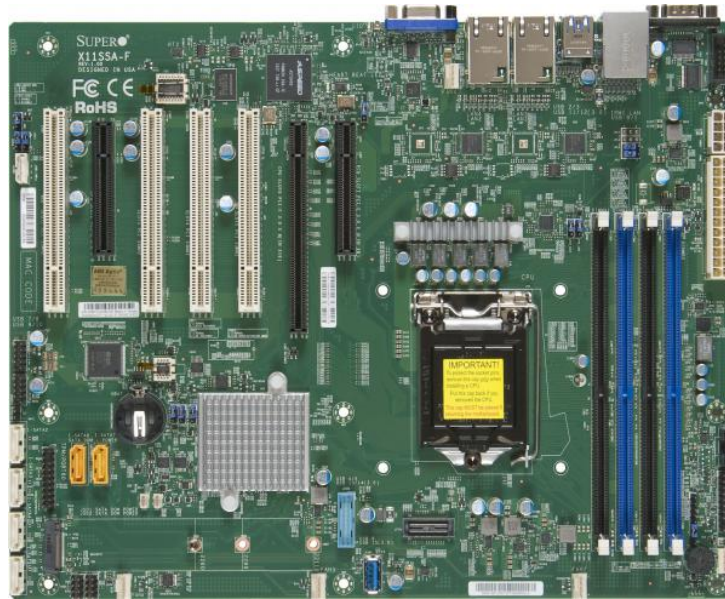


X11SSA-F



Key Features

1. Single socket H4 (LGA 1151) supports Intel® Xeon® processor E3-1200 v6/v5, Intel® 7th/6th Gen. Core™ i3 series, Intel® Celeron® and Intel® Pentium®
2. Intel® C236 chipset
3. Up to 64GB Unbuffered ECC UDIMM DDR4 2400MHz; 4 DIMM slots
4. Expansion slots:
 - 1 PCI-E 3.0 x8 (in x16),
 - 1 PCI-E 3.0 x8,
 - 1 PCI-E 3.0 x4 (in x8)
 - 4 5V PCI 32-bit slots
5. M.2 NGFF connector
 - M.2 Interface:** PCI-E 3.0 x4 and SATA
 - Form Factor: 2242, 2260, 2280, 22110
 - Key: M-Key
6. 6 SATA3 (6Gbps) via C236; RAID 0, 1, 5, 10
7. Dual GbE LAN with Intel® i210-AT
8. I/O: 1 VGA, 2 COM, TPM header
9. 2 SuperDOM with built-in power
10. 5 USB 3.0 (2 rear, 2 via header(s), 1 Type A), 6 USB 2.0 (2 rear, 4 via header(s))

Specifications

Product SKUs

- MBD-X11SSA-F** ■ X11SSA-F

Physical Stats

- Form Factor** ■ ATX
- Dimension** ■ 12" x 9.6" (30.48cm x 24.38cm)

Processor

- CPU**
- Intel® Celeron®, Intel® Pentium®, Intel® 7th/6th Generation Core i3 series, Intel® Xeon® processor E3-1200 v6/v5
 - Single Socket LGA-1151 (Socket H4) supported, CPU TDP supports Up to 80W TDP

System Memory

- Memory Capacity**
- 4 DIMM slots
 - 64GB ECC UDIMM, DDR4-2400MHz
- Memory Type** ■ 2400/2133/1866/1600MHz SDRAM 72-bit, 288-pin gold-plated DIMMs
- DIMM Sizes** ■ 4GB, 8GB, 16GB
- Memory Voltage** ■ 1.2V
- Error Detection** ■ Corrects single-bit errors

On-Board Devices

- Chipset** ■ Intel® C236
- SATA** ■ Intel® C236 controller for 6 SATA3 (6 Gbps) ports; RAID 0,1,5,10
- IPMI** ■ ASPEED AST2400 BMC
- Graphics** ■ ASPEED AST2400 BMC
- Network Controllers** ■ Dual LAN with Intel® Ethernet Controller I210-AT

Input / Output

- USB**
- 3 USB 3 port(s) (1 Type A; 2 via header)
 - 6 USB 2.0 port(s) (4 via header; 2 rear)
 - 2 USB 3.0 port(s) (2 rear)
- Video Output** ■ 1 VGA port(s)
- Serial Port** ■ 2 COM Port(s) (1 header; 1 rear)
- TPM** ■ 1 TPM Header

Expansion Slots

- PCI-E**
- 1 PCI-E 3.0 x8,
 - 1 PCI-E 3.0 x8 (in x16 slot),
 - 1 PCI-E 3.0 x4 (in x8 slot)
 - 4 - 5V PCI 32bit
- M.2**
- M.2 Interface: PCI-E 3.0 x4; SATA
 - Form Factor: 22110, 2280, 2242, 2260
 - Key: M-Key

System BIOS

- BIOS Type** ■ 128MB SPI Flash EEPROM with AMI BIOS
- BIOS Features**
- Plug and Play (PnP)
 - APM 1.2
 - DMI 2.3
 - PCI 2.3
 - ACPI 1.0 / 2.0 / 3.0 / 4.0
 - USB Keyboard support
 - Hardware BIOS Virus protection
 - SMBIOS 2.7.1
 - UEFI 2.3.1

Management

- Software**
- SuperDoctor® 5, NMI, [SUM](#), [SPM](#), Intel® Node Manager, [SSM](#), [IPMI2.0](#), Watchdog
- Power Configurations**
- Power-on mode for AC power recovery, ACPI Power Management

PC Health Monitoring

- Voltage**
- VBAT, System level control, Supports system management utility, Monitors CPU voltages, Chassis intrusion header, +5V standby, +5V, +3.3V, +12V
- LED**
- UID/Remote UID
 - CPU / System Overheat LED
- Temperature**
- Monitoring for CPU and chassis environment
 - CPU thermal trip support
 - Thermal Monitor 2 (TM2) support
 - PECI
- FAN**
- 5x 4-pin fan headers (up to 5 fans)
 - Thermal control tachometer fan connectors
 - Fan speed control
 - Overheat LED indication
- Other Features**
- WOL
 - M.2 NGFF connector
 - CPU thermal trip support for processor protection
 - Control of power-on for recovery from AC power loss

Operating Environment

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

Non-Operating Temperature Range ■ -40°C - 70°C (-40°F - 158°F)

Operating Relative Humidity Range ■ 8% - 90% (non-condensing)

Non Operating Relative Humidity Range ■ 5% - 95% (non-condensing)

Parts List

Parts List (Bulk Package)			
Name	Part Number	Qty	Description
Motherboard	MBD-X11SSA-F	1	X11SSA-F Motherboard
I/O Cables	CBL-0044L • <i>eStore</i>	2	57.5CM SATA FLAT S-S PBF
I/O Shield	MCP-260-00042-0N • <i>eStore</i>	1	STD I/O Shield for X11SSA-F with EMI Gasket

Parts List (Retail Package)			
Name	Part Number	Qty	Description
Motherboard	MBD-X11SSA-F	1	X11SSA-F Motherboard
I/O Cables	CBL-0044L • <i>eStore</i>	6	57.5CM SATA FLAT S-S PBF
I/O Shield	MCP-260-00042-0N • <i>eStore</i>	1	STD I/O Shield for X11SSA-F with EMI Gasket
QRG	MNL-1777-QRG	1	Motherboard Quick Reference Guide

Chassis (Optimized for X11SSA-F)

Embedded Compact	1U	2U	3U	Mid/Mini-Tower	4U/Tower
		<u>SC823TQ-653LPB</u> <u>SC523L-505B</u> Heatsink:SNK-P0046A4	<u>SC833T-653B</u> Heatsink:SNK-P0046A4	● <u>SC732i-865B</u> ● <u>SC732I-500B</u> Heatsink:SNK-P0046A4	● <u>SC743TQ-1200B-SQ</u> ● <u>SC842TQ-665B</u> ● <u>SC842i-500B</u> Heatsink:SNK-P0046A4

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