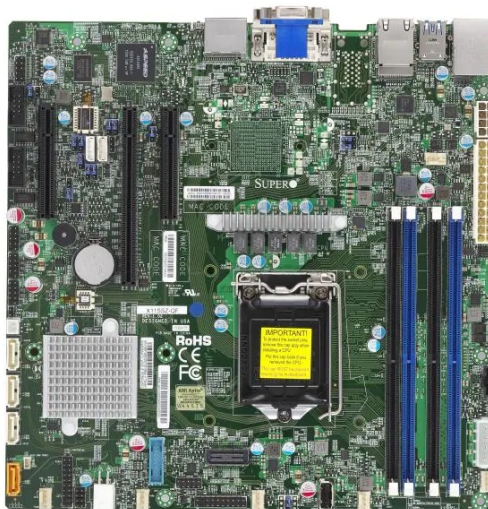


X11SSZ-F



vPro AMT
IPMI
2400MHz DDR4
Embedded

Key Features

Single socket H4 (LGA 1151) supports Intel® Xeon® processor E3-1200 v6/v5, Intel® 7th/6th Gen. Core™ i7/i5/ i3 series, Intel® Celeron® and Intel® Pentium®

Intel® C236 chipset

Up to 64GB DDR4 2400MHz ECC/Non-ECC Unbuffered UDIMM; 4 DIMM slots

1 PCIe 3.0 x16 (in x16),

2 PCIe 3.0 x4 (in x8)

4 SATA3 (6Gbps) via C236; RAID 0, 1, 5, 10

Dual GbE LAN w/ Intel i219LM + i210AT

Supports 12V DC power input

I/O: 1 SATA DOM, 2 COM, TPM 1.2 header, ALC 888S HD Audio

2 DP, 1 DVI-I, 3 independent displays via Intel HD Graphics, VGA port for BMC

IPMI, AMT vPro

Optimized Servers

[SYS-5019S-M2](#)

Specifications

Product SKUs**MBD-X11SSZ-F****Physical Stats****Form Factor**

Micro-ATX

Dimension

9.6" x 9.6" (24.38cm x 24.38cm)

Processor**CPU**

Intel® Celeron®, Intel® Pentium®, Intel® 6th Generation Core™ i3 series, Intel® 7th Generation Core™ i3 series, Intel® 6th Generation Core™ i5 series, Intel® 6th Generation Core™ i7 series, Intel® 7th Generation Core™ i5 series, Intel® 7th Generation Core™ i7 series, Intel® Xeon® processor E3-1200 v5 series, Intel® Xeon® processor E3-1200 v6 Single Socket LGA-1151 (Socket H4) supported, CPU TDP supports Up to 91W TDP

Note

BIOS version 2.0 or above is required to support 7th Generation Intel® Core™ Processors and Intel® Xeon® Processor E3-1200 v6 series

System Memory**Memory Capacity**

4 DIMM slots

Up to 64GB Unbuffered ECC/non-ECC UDIMM, DDR4-2400MHz

Memory Type

2400/2133/1866 MT/s SDRAM 72/64-bit, 288-pin 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 4 SATA3 (6 Gbps) ports; RAID 0,1,5,10

Intel RSTe

Audio

ALC 888S HD Audio

Graphics

1 Intel® HD Graphics port(s)

1 ASPEED AST2400 BMC port(s)

3 Independent Displays, VGA is from BMC A CPU with processor graphics is required for Intel HD Graphics (DVI/DP). Example: E3-1275 v5

Network Controllers

Single LAN with Intel® PHY I219LM LAN controller

Single LAN with Intel® Ethernet Controller I210-AT

Input / Output**USB**

9 USB 2.0 port(s) (2 rear; 6 via header; 1 Type A)

2 USB 3.2 Gen1 port(s) (2 via header)

2 USB 3.0 port(s) (2 rear)

Video Output

1 VGA port(s), 2 DP (DisplayPort) port(s), 1 DVI - I port(s)

Serial Port

2 COM Port(s) (2 header)

TPM

1 TPM Header

Expansion Slots**PCIe**

1 PCIe 3.0 x16 (in x16 slot),

2 PCIe 3.0 x4 (in x8 slot)

System BIOS**BIOS Type**

AMI UEFI

BIOS Features

Plug and Play (PnP)

APM 1.2

DMI 2.3

PCI 2.3

ACPI 1.0 / 2.0 / 3.0 / 4.0

Hardware BIOS Virus protection

USB Keyboard support

SMBIOS 2.7.1

UEFI 2.3.1

Management**Software**

SuperDoctor® 5, NMI, KVM with dedicated LAN, [IPMI2.0](#), AMT, vPro, Watchdog

System Management Software

SuperDoctor 5, IPMIView for Linux/Windows

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, 6 -fan status, 1.2V (VDIMM), +5V standby, +5V, +3.3V, +12V, +1.8V

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

I2C temperature sensing logic

FAN

6x 4-pin fan headers (up to 6 fans)

Thermal control tachometer fan connectors, System level control, PWM fan speed control, Fan speed control, 6 fans with tachometer status monitoring, Pulse Width Modulated (PWM) fan connectors, Overheat LED indication

Other Features

WOL, UID, System level control, RoHS, CPU thermal trip support for processor protection, Control of power-on for recovery from AC power loss, Chassis intrusion header, ATX Power connector, ACPI power management, 8-pin 12v DC power connector, Intel Smart Response Technology

Operating Environment**Operating Temperature Range**

0°C - 60°C (32°F - 140°F)

Non-Operating Temperature Range

-20°C - 60°C (-4°F - 140°F)

Operating Relative Humidity Range

10% - 85% (non-condensing)

Non Operating Relative Humidity Range

10% - 95% (non-condensing)

Parts List

Standard Parts (Bulk Package)

I/O Cables

Part Number	CBL-0044L
Qty	2
Description	57.5CM SATA FLAT S-S PBF

I/O Shield

Part Number	MCP-260-00093-0N
Qty	1
Description	Standard I/O Shield for X11SSZ with EMI Gasket

Standard Parts (Retail Package)

I/O Cables

Part Number	CBL-0044L
Qty	4
Description	57.5CM SATA FLAT S-S PBF

I/O Shield

Part Number	MCP-260-00093-0N
Qty	1
Description	Standard I/O Shield for X11SSZ with EMI Gasket

QRG

Part Number	MNL-1744-QRG
Qty	1
Description	Motherboard Quick Reference Guide

Optional Parts

1U I/O Shield

Part Number	MCP-260-00094-0N
Qty	--
Description	1U I/O Shield for X11SSZ with EMI Gasket in CSE-512/813

TPM security module

Part Number	AOM-TPM-9655V	AOM-TPM-9655H		
Qty	-	-		
Description	T	P	M	-
	o	d	u	l
	-	w	i	t
	-	l	n	f
	n	e	o	n
	9	6	5	5
	-	R	o	H
	/	R	E	A
	H	,	P	B
	;			F