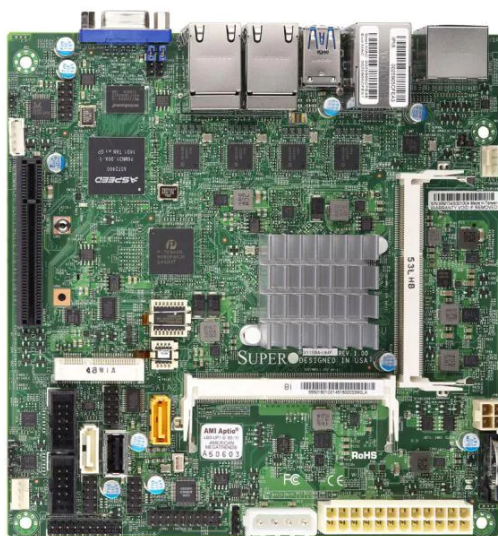


X11SBA-F



Embedded IPMI

Key Features

- Intel® Pentium™ Processor N3710., Single Socket FCBGA1170 supported, CPU TDP support 6W
- Up to 8GB 1600MHz DDR3 Non-ECC SO-DIMM in 2 sockets
- 1 PCIe 2.0 x1 (in x8),
- 1 Mini-PCIe (mSATA support)
- Dual GbE LAN with Intel® i210-AT
- Supports 12V DC power input
- System-on-Chip
- 1 HDMI, 1 DP, Intel HD Graphics,
- VGA port for BMC
- 2 USB 3.0 ports (2 rear), 7 USB 2.0 (2 rear, 4 via header(s), 1 Type A)
- I/O: 1 SATA DOM, 2 COM, TPM 1.2 header, ALC 888S HD Audio
- IPMI 2.0 with dedicated Port and KVM

Specifications

Product SKUs**MBD-X11SBA-F**

Physical Stats**Form Factor**

Mini-ITX

Dimension6.7" x 6.7" (17.02cm x 17.02cm)

Processor**CPU**

Intel® Pentium™ Processor N3710

Single Socket FCBGA-1170 supported, CPU TDP supports Up to 6W TDP

System Memory**Memory Capacity**

2 DIMM slots

Up to 8GB Unbuffered non-ECC SODIMM, DDR3-1600MHz

Memory Type

1600/1333/1066MHz non-ECC DDR3 SODIMM Unbuffered 204-pin gold-plated DIMMs

DIMM Sizes

2GB, 4GB, 8GB

Memory Voltage1.35V

On-Board Devices**Chipset**

System on Chip

SATA

SoC controller for 2 SATA3 (6 Gbps) ports

IPMI

IPMI 2.0 with virtual media over LAN and KVM-over-LAN support

Audio

1x ALC 888S HD Audio port(s) ALC 888S HD Audio

Graphics

1 ASPEED AST2400 BMC port(s)

1 SoC port(s)

Network ControllersDual LAN with Intel® Ethernet Controller I210-AT

Input / Output**SATA**

2 SATA3 (6Gbps) port(s)

LAN

2 RJ45 Gigabit Ethernet LAN ports

1 RJ45 Dedicated IPMI LAN port

USB

7 USB 2.0 port(s) (4 via header; 2 rear; 1 Type A)

2 USB 3.0 port(s) (2 rear)

Video Output

1 VGA port(s), 1 DP (DisplayPort) port(s), 1 HDMI port(s)

Serial Port

2 COM Port(s) (2 header)

TPM1 TPM Header

Expansion Slots**PCIe**

1 PCIe 2.0 x1 (in x8 slot)

1 Mini-PCIe with mSATA support

System BIOS**BIOS Type**

AMI UEFI

BIOS Features

Plug and Play (PnP)

ACPI 5.0

UEFI 2.3.1

SMBIOS 2.7.1

DMI 2.3

USB Keyboard support

RTC (Real Time Clock) Wakeup

Management**Software**SuperDoctor® 5, NMI, KVM with dedicated LAN, [IPMI2.0](#), Watchdog**System Management Software**

SuperDoctor 5, IPMIView for Linux/Windows

Power ConfigurationsPower-on mode for AC power recovery, ACPI Power Management

PC Health Monitoring**Voltage**

VBAT, System level control, Supports system management utility, Chassis intrusion header, +5V standby, +5V, +3.3V, +12V, +1.8V

LED

Standby alert LED

Temperature

Monitoring for CPU and chassis environment

CPU thermal trip support

Thermal Monitor 2 (TM2) support

PECI

FAN

2x 4-pin fan headers (up to 2 fans)

Thermal control tachometer fan connectors, System level control, PWM fan speed control, Fan speed control, Pulse Width Modulated (PWM) fan connectors, Overheat LED indication

Other FeaturesWOL, 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, 4-pin 12v DC power connector

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 Range10% - 95% (non-condensing)

Parts List

Standard Parts (Bulk Package)

I/O Cables

Part Number	CBL-0044L
Qty	1
Description	57.5CM SATA FLAT S-S PBF

I/O Shield

Part Number	MCP-260-00058-0N
Qty	1

Description Standard I/O Shield for
X10SBA with EMI Gasket

Standard Parts (Retail Package)

I/O Cables

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

I/O Shield

Part Number MCP-260-00058-0N
Qty 1
Description Standard I/O Shield for
X10SBA with EMI Gasket

QRG

Part Number MNL-1794-QRG
Qty 1
Description Motherboard Quick
Reference Guide

Optional Parts

1U I/O Shield

Part Number MCP-260-00068-0B
Qty --
Description 1U I/O Shield for X10SBA
with EMI Gasket in CSE-
510/505/504

mSATA 128GB

Part Number SSD-DM128-SMCMVN1
Qty --
Description Supermicro mSATA
128GB MLC

mSATA 64GB

Part Number SSD-DM064-PHI
Qty --
Description Supermicro mSATA 64GB
MLC

TPM security module

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