

ASMB-922I Intel® Xeon® E5-2600 series Dual 2011 Socket EATX Server Board with 4 PCIe Expansion Slots

Startup Manual

Packing List

Before you begin installing your card, please make sure that the following items have been shipped:

- 1 ASMB-922I Startup Manual
- 1 Driver CD (user's manual is included)
- 2 Serial ATA HDD data cables
- 2 Serial ATA HDD power cables
- 1 I/O port bracket
- 1 Warranty card

If any of these items are missing or damaged, please contact your distributor or sales representative immediately.

Note 2: Acrobat Reader is required to view any PDF file. Acrobat Reader can be downloaded at: www.adobe.com/Products/acrobat/readstep2.html (Acrobat is a trademark of Adobe)

Specifications

Standard SBC Functions

- **CPU:** LGA2011 Intel® Xeon® E5-2600 series
- **BIOS:** AMI 64 Mb SPI BIOS
- **Chipset:** Intel® C602J PCH
- **System Memory:** 8* DDR3 REG/ECC/Non-ECC 1066/1333/1600 unbuffered DIMM, Max. 128 GB

Note: Due to the inherent limitations of PC architecture, the system may not fully detect 128 GB RAM when 128 GB RAM is installed.

- **SATA Interface:** 4 x SATA2 3 Gb/s ports, 2 x SATA3 6Gb/s, supports Intel Matrix Storage (for Windows only) software RAID 0, 1, 10 & 5.
- **Serial ports:** Two serial ports, only support RS-232
- **Keyboard/mouse connector:** Supports standard PS/2 keyboard and mouse
- **Watchdog timer:** 255 level timer intervals
- **USB port:** Supports up to eleven USB 2.0 ports (1*Type-A) and two USB 3.0 ports

VGA Interface

- **Chipset:** Aspeed AST2300
- **Display Memory:** 64 MB
- **Resolution:** Supports VGA up to resolution 1920 x 1200 @ 60 Hz refresh rate

Ethernet Interface

- **Interface:** 10/100/1000 Mbps
- **Controller:** LAN1: Intel 82579LM; LAN2: Intel I210; LAN3: Realtek 8201EL(10/100Mbps for IPMI, ASMB- 922I sku only)

Mechanical and Environment

- **Dimensions (L x W):** 330 x 304 mm (13" x 12")
- **Power supply voltage:** +3.3 V, +5 V, ±12 V, +5 Vsb
- **Power consumption (mainboard only, excluding IO device):** Max. load: +3.3 V @ 19.69 A, +5 V @ 7.77 A, +12 V @ 14.66 A, +12 V(8P1) @ 22 A, +12 V(8P2) @ 22 A, +5 Vsb @ 2 A
- **Operating temperature:** 0 ~ 40° C (depending on CPU)
- **Weight:** 1.7 kg (weight of board)

For more information on this and other Advantech products, please visit our website at:

<http://www.advantech.com>

<http://www.advantech.com/eplatform>

For technical support and service, please visit our support website at:

<http://www.advantech.com/support>

This manual is for the ASMB-922I series Rev. A1

Part No. 2006922110

Print in China

1st Edition

May 2013

Jumpers and Connectors

The board has a number of jumpers that allow you to configure your system to suit your application. The table below lists the function of each of the jumpers and connectors.

Connectors	
Label	Function
ATXPWR1	ATX 24 Pin main power connector
ATX12V1	Processor power connector (for CPU0)
ATX12V2	Processor power connector(for CPU1)
SATA0~SATA5	Serial ATA0~5
USB2_3, USB4_5, USB6_7, USB8_9	USB 2.0 header 2, 3, 4, 5, 6, 7, 8, 9
USB0_1, USB30_1, USB10	USB 2.0 port 0, 1; USB 3.0 port 0, 1; USB 2.0 port 10 (Type-A)
PCIE_PME1	PCIE x16 slot (For PME)
PCIEX8_SLOT4, PCIEX16_SLOT5, PCIEX16_SLOT6, PCIEX16_SLOT7	PCIE x8 & x16 slot
DIMMA1 ~ DIMMH1	DDR3 slot
CPUFAN0,CPUFAN1	CPU FAN connector
SYSFAN0,SYSFAN1, SYSFAN2	System FAN connector
LAN1,LAN2	LAN connector
BMC LAN1	LAN connector for IPMI
VGA_COM1	VGA+COM connector
KBMS1	Keyboard and mouse connector
KBMS2	External keyboard and mouse connector (6 pin)
BIOS_SKT1	BIOS SPI ROM
LANLED1	LAN LED extension connector
SMBUS1	Front panel SMBus header
BMC1	IPMI module header
SATA_SGPIO_1	SATA SGPIO header
JCASE1	Chassis case open alarm header
AUDIO1	Audio header
COM2	Serial port: RS-232
JFP1, JFP2, JFP3	Front panel header
GPIO	GPIO connector

Jumpers and Connectors

Jumpers list

Label	Function
JCMOS1	CMOS clear
JME1	ME update

JCMOS1/JME1: CMOS clear/ME update function

Closed pins	Result
1-2	Keep CMOS data/Disable ME update*
2-3	Clear CMOS data/Enable ME update

*: Default



Keep CMOS data/Disable ME update Clear CMOS data/Enable ME update

Installation Note

JFP1	3	6	9	12	PWRSW	RESET
&	2(+)	5(-)	8	11	HDDLED	SNMP SM_BUS
JFP2	▶ 1(+)	4	7	10(-)	SPEAKER	
JFP3	▶ 1	2	3	4	5	PWRLED & KEYLOCK

JFP1, JFP2

Pin.3	#PWR_SW
Pin.6	GND
Pin.9	#RST_SW
Pin.12	GND

*Power button pin is located in Pin 3 & 6 of front panel connector

Software Installation

The CD disc contains a driver installer program that will lead you through the installation of various device drivers needed to take full advantage of your motherboard.

The computer is supplied with a battery-powered realtime clock circuit. There is a danger of explosion if battery is incorrectly replaced. Replace only with same or equivalent type recommended by the manufacturer. Discard used batteries according to manufacturer's instructions.

Declaration of Conformity

The device complies with the requirements in Part 15 of the FCC rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference;
2. This device must accept any interference received, including interference that may cause undesired operation.

Board Layout

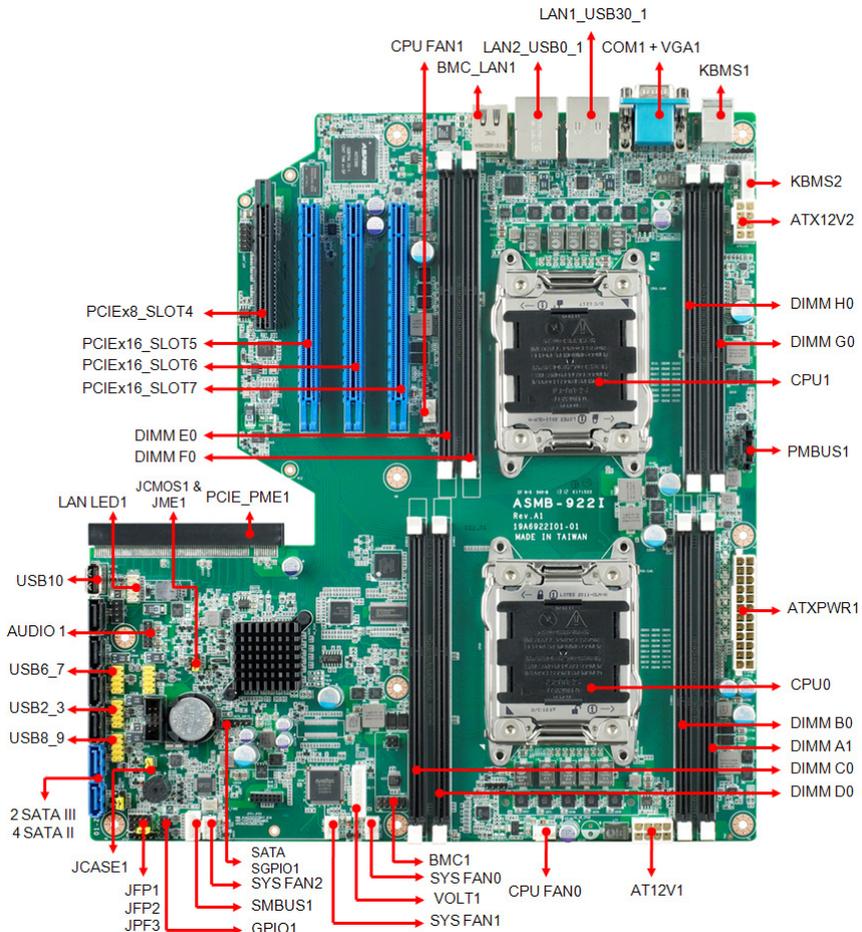


Figure 1: Board Layout: Jumper and Connector Locations

Procedure for assembling the PME module to ASMB-922I motherboard

1. Take off all the plastic caps behind the mounting holes



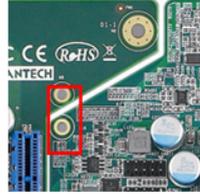
2. Insert the PME module into the PME slot of ASMB-922I



3. Take the plastic holder out from the bag.



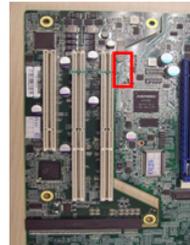
4. Find the two PME mounting holes.



5. Push the plastic holders down and make the latch pass through and into those two holes.



6. Check and make sure that the plastic holder is firmly connected to the two PCBs.



Notes

Hold ASMB-922I this way to prevent damage.



Do NOT hold ASMB-922I this way, it may cause chip damage.

