# **ADVANTECH**

# ASMB-586 LGA 1151 Intel® Xeon® E / 8th Gen Core™ MicroATX Server Board with 4 x DDR4, 4 x PCIe, 6 x USB 3.1, 8 x SATA3, Quad/Dual LANs, IPMI Startup Manual

### **Packing List**

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

- · 1 Startup manual
- · 2 Serial ATA HDD data cables
- · 2 Serial ATA HDD power cables
- 1 COM cable (for connection to real panel)
- 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:

Acrobat Reader is required to view any PDF file.Acrobat Reader can be downloaded at: http://www.adobe.com/downloads/ (Acrobat is a trademark of Adobe)

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For technical support and service, please visit our support website for ASMB-586 at:

### https://advt.ch/searc8f16d



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### http://www.register.advantech.com



This manual is for the ASMB-586 series Rev. A1..

Part No. 2001058610 Printed in China 1st Edition August 2018

### **Specifications**

### **Standard Functions**

- CPU: Intel LGA1151 Xeon E-21xx / 8th Gen Core i3/i5/i7 series processors
- . BIOS: AMI 256 Mb SPI BIOS
- · Chipset: Intel C246
- System Memory: Dual channel DDR4 ECC/Non-ECC 2666/2400/2133 MHz unbuffered DIMM. Max. 64 GB

lote:

Due to the inherent limitations of the PC architecture, the system may not fully detect 64 GB RAM when 64 GB RAM is installed.

- SATA3 Interface: 8 x SATA3 6Gb/s ports to support Intel Rapid Storage Technology Enterprise with software RAID 0, 1, 10 & 5. (for Windows only)
- Serial ports: Two serial ports onboard, only support RS-232 (one can be in rear IO via COM cable connection)
- Keyboard/Mouse connector: Supports standard PS/2 keyboard and mouse via KMBS1 pin header.
- Watchdog timer: 255 level timer intervals (sec/min)
- USB 3.1: Supports up to six USB 3.1 ports, four Gen2 ports in rear I/O and two Gen1 ports from on-board pin header
- USB 2.0: Supports up to seven USB 2.0 ports (1\* Type-A)

### **Display Interface**

- · Chipset: CPU integrated Intel HD graphics controller
- Display Memory: 1 GB maximum shared memory with 2 GB and above system memory installed (BIOS default is 256MB)
- · Resolution:
  - Supports VGA up to 1920 x 1200 resolution @ 60 Hz refresh rate
  - Supports DVI up to 1920 x 1200 resolution@ 60 Hz refresh rate
  - Supports HDMI 2.0 up to 2K/4K resolution @ 60Hz

### **Ethernet Interface**

- Interface: 10/100/1000 Mbps
- Controller: LAN1:Intel® I219LM; LAN2 ~ LAN4: Intel® I210AT (LAN2 is BMC shared NIC; LAN3/4 is for G4 SKU only)

### **Mechanical and Environmental**

- Dimensions (L x W): 244 x 244 mm (9.6" x 9.6")
- Power supply voltage: +3.3 V, +5 V, ±12 V, 5 Vsb
- Power consumption: Max. load: +3.3 V @ 3.87 A, +5 V
   @ 4.11 A, +12 V @ 0.63 A, +12 V (8P) @ 6.28 A, +5 Vsb
   @ 0.09 A, -12 V @ 0.238 A
- Operating temperature: 0 ~ 60° C (Depends on CPU speed and cooler solution)

# **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 jumper and connector.

Label Function  ATXPWR1 ATX 24-pin main power connector (for System)  ATX12V1 8-pin power connector (for CPU)  BAT2 For optional battery kit  BMC connector to support IPMI-1000 module (P/N: IPMI-1000-00A2E)  COM1*, COM2 Serial port: RS-232  CPUFAN0 CPU FAN connector  DVI1 DVI connector  DVI1 DVI connector  DVI1 DVI connector  DVI1 Port Panel Audio Header  FOAUD1 Front Panel Audio Header  GPIO1 8-bit GPIO header  HDMI1_VGA1 HDMI + VGA connector  JFP1 Power Switch / Reset connector  JFP2 External speaker / HDD LED connector/ SMBus connector  Keyboard Lock and Power LED Suspend: Fast flash (ATX/ AT) System On: ON (ATX/ AT) System On: ON (ATX/ AT)  System Off: OFF (ATX/AT)  KBMS1 External keyboard and mouse connector (6-pin)  KBMS1 LAN1_USB3_4 LAN2_USB3_4 LAN2_USB3_1 Gen2 port 1, 2 stack connector  LAN3_4 LAN3 & LAN4 connector  LAN1_BD extension connector  LAN1_BD extension connector  LAN2_USB3_4 LAN4 connector  LAN4 LAN5 & LAN4 connector  LAN5_4 LAN6 LAN6 Connector  LAN6_BD Extension connector  LAN6_BD Extension connector  LOW pin count connector  LOW pin co	Connector list			
ATX12V1 (for System)  ATX12V1 (for CPU)  BAT2 For optional battery kit  BMC connector to support IPMI-1000 module (P/N: IPMI-1000-00A2E)  COM1*, COM2 Serial port: RS-232  CPUFAN0 CPU FAN connector  DVI1 DVI connector  DIMMA0,DIMMA1, DIMMB0,DIMMB1 Pore External Thermistor Cable Kit  FPAUD1 Front Panel Audio Header  GPIO1 8-bit GPIO header  HDMI1_VGA1 HDMI + VGA connector  JFP1 Power Switch / Reset connector  JFP2 External speaker / HDD LED connector/ SMBus connector  Keyboard Lock and Power LED Suspend: Fast flash (ATX/ AT) System On: ON (ATX/ AT)  System On: ON (ATX/ AT)  System Off: OFF (ATX/AT)  KBMS1 External keyboard and mouse connector (6-pin)  LAN1_USB1_2, LAN2_USB3_4 LAN2 / USB 3.1 Gen2 port 1, 2 stack connector  LAN3_4 LAN4 connector  LAN4 LAN5 & LAN4 connector  LAN5 & LAN4 connector  LAN6 LED extension connector  LOW pin count connector  LOW pin coun	Label	Function		
BAT2   For optional battery kit   BMC1   BMC connector to support   IPMI-1000 module (P/N: IPMI-1000-00A2E)   COM1*, COM2   Serial port: RS-232   CPUFAN0   CPU FAN connector   DVI1   DVI connector   DIMMA0,DIMMA1, DIMMB0,DIMMB1   EX_THR1   For External Thermistor Cable   Kit   FPAUD1   Front Panel Audio Header   GPIO1   8-bit GPIO header   HDMI1_VGA1   HDMI + VGA connector   JFP2   External speaker / HDD LED   connector / SMBus connector   Weyboard Lock and Power LED   Suspend: Fast flash (ATX/ AT)   System On: ON (ATX/ AT)   System On: ON (ATX/ AT)   System Off: OFF (ATX/AT)   External keyboard and mouse   connector (G-pin)   LAN1_USB1_2,	ATXPWR1	ATX 24-pin main power connector (for System)		
BMC1  BMC connector to support IPMI-1000 module (P/N: IPMI-1000-00A2E)  COM1*, COM2  Serial port: RS-232  CPUFAN0  CPU FAN connector  DVI1  DVI connector  DIMMA0,DIMMA1, DIMMB0,DIMMB1  EX_THR1  For External Thermistor Cable Kit  FPAUD1  Front Panel Audio Header  GPIO1  B-bit GPIO header  HDMI1_VGA1  HDMI + VGA connector  JFP1  Power Switch / Reset connector  External speaker / HDD LED connector/ SMBus connector  Keyboard Lock and Power LED Suspend: Fast flash (ATX/ AT) System On: ON (ATX/ AT)  System On: ON (ATX/ AT)  System Off: OFF (ATX/AT)  KBMS1  External keyboard and mouse connector (6-pin)  LAN1_USB1_2, LAN2_USB3_4  LAN2 / USB 3.1 Gen2 port 1, 2 stack connector  LAN3_4  LAN4 Connector  LAN5_4  LAN6 LED extension connector  LAN6 LED extension connector  LOW pin count connector  LO	ATX12V1			
BMC1 IPMI-1000 module (P/Ñ: IPMI- 1000-00A2E)  COM1*, COM2 Serial port: RS-232  CPUFAN0 CPU FAN connector  DVI1 DVI connector  DVI1 DVI connector  DVI1 DDR4 288-pin slot  EX_THR1 For External Thermistor Cable Kit  FPAUD1 Front Panel Audio Header  GPIO1 8-bit GPIO header  HDMI1_VGA1 HDMI + VGA connector  JFP1 Power Switch / Reset connector  External speaker / HDD LED connector/ SMBus connector  Keyboard Lock and Power LED Suspend: Fast flash (ATX/ AT) System On: ON (ATX/ AT)  System On: ON (ATX/ AT)  System Off: OFF (ATX/AT)  KBMS1 External keyboard and mouse connector (6-pin)  LAN1_USB1_2, LAN2_USB3_4 LAN2 / USB 3.1 Gen2 port 1, 2 stack connector  LAN3_4 LAN4 connector  LAN3_4 LAN4 connector  LAN4 LAN4 connector  LAN5 LAN4 connector  LAN6 LAN6 LAN4 connector  LOW pin count connector  LPC1 Connector LOW pin count connector  PCIEX4_SLOT4 PCIe x4 slot (Gen3 x4 link)  PCIEX1_SLOT5 PCIe x1 slot (Gen3 x1 link)  PCIEX16_SLOT6 PCIe x16 slot (Gen3 x16 link)	BAT2	For optional battery kit		
CPUFANO CPU FAN connector  DVI1 DVI connector  DIMMA0,DIMMA1, DIMMB0,DIMMB1 DDR4 288-pin slot  EX_THR1 For External Thermistor Cable Kit  FPAUD1 Front Panel Audio Header  GPIO1 8-bit GPIO header  HDMI1_VGA1 HDMI + VGA connector  JFP1 Power Switch / Reset connector  External speaker / HDD LED connector/ SMBus connector  Keyboard Lock and Power LED Suspend: Fast flash (ATX/ AT) System On: ON (ATX/ AT) System Off: OFF (ATX/AT)  KBMS1 External keyboard and mouse connector (6-pin)  LAN1_USB1_2, LAN2_USB3_4 LAN2 / USB 3.1 Gen2 port 1, 2 stack connector  LAN3_4 LAN3 & LAN4 connector  LAN3_4 LAN3 & LAN4 connector  LAN4 LED extension connector  LPC1 LAN4 LED extension connector  LOW pin count con	BMC1	IPMI-1000 module (P/N: IPMI-		
DVI1 DVI connector  DIMMA0,DIMMA1, DIMMB0,DIMMB1 DDR4 288-pin slot  EX_THR1 For External Thermistor Cable Kit  FPAUD1 Front Panel Audio Header  GPIO1 8-bit GPIO header  HDMI1_VGA1 HDMI + VGA connector  JFP1 Power Switch / Reset connector  External speaker / HDD LED connector/ SMBus connector  Keyboard Lock and Power LED Suspend: Fast flash (ATX/ AT) System On: ON (ATX/ AT) System Off: OFF (ATX/AT)  KBMS1 External keyboard and mouse connector (6-pin)  LAN1_USB1_2, LAN2_USB3_4 LAN2 / USB 3.1 Gen2 port 1, 2 stack connector  LAN3_4 LAN4 connector  LAN4 LAN4 Connector  LAN5 LAN4 connector  LAN6 LAN6 LAN4 connector  LOW pin count connector  LOW	COM1*, COM2	Serial port: RS-232		
DIMMA0,DIMMA1, DIMMB0,DIMMB1  EX_THR1  For External Thermistor Cable Kit  FPAUD1  Front Panel Audio Header  GPIO1  8-bit GPIO header  HDMI1_VGA1  HDMI + VGA connector  JFP1  Power Switch / Reset connector  External speaker / HDD LED connector/ SMBus connector  Keyboard Lock and Power LED Suspend: Fast flash (ATX/ AT) System On: ON (ATX/ AT) System Off: OFF (ATX/AT)  KBMS1  External keyboard and mouse connector (6-pin)  LAN1_USB1_2, LAN2_USB3_4  LAN2_USB3_4  LAN2 / USB 3.1 Gen2 port 1, 2 stack connector  LAN3_4  LAN3 & LAN4 connector  LAN4 LAN4 connector  LAN5 LAN4 connector  LOW pin count connector  LOW pin count connector  LPC1  LOW pin count connector  LOW pin count connector  LPC1  PCIEX4_SLOT4  PCIE x4 slot (Gen3 x4 link)  PCIEX16_SLOT5  PCIE x1 slot (Gen3 x1 link)	CPUFAN0	CPU FAN connector		
DIMMB0,DIMMB1  EX_THR1  For External Thermistor Cable Kit  FPAUD1  Front Panel Audio Header  GPIO1  8-bit GPIO header  HDMI1_VGA1  HDMI + VGA connector  JFP1  Power Switch / Reset connector  External speaker / HDD LED connector/ SMBus connector  Keyboard Lock and Power LED Suspend: Fast flash (ATX/ AT) System On: ON (ATX/ AT)  System Off: OFF (ATX/AT)  KBMS1  External keyboard and mouse connector (6-pin)  LAN1_USB1_2, LAN2_USB3_1 Gen2 port 1, 2 stack connector  LAN2_USB3_4  LAN3_4  LAN3_4  LAN3_4  LAN4 connector  LAN4 LED extension connector  LPC1  LOW pin count connector  LOW pin count co	DVI1	DVI connector		
EX_IHH1  Kit  FPAUD1  Front Panel Audio Header  GPIO1  8-bit GPIO header  HDMI1_VGA1  HDMI + VGA connector  JFP1  Power Switch / Reset connector  External speaker / HDD LED connector/ SMBus connector  Keyboard Lock and Power LED Suspend: Fast flash (ATX/ AT) System On: ON (ATX/ AT)  System On: ON (ATX/ AT)  External keyboard and mouse connector (6-pin)  LAN1_USB1_2,  LAN1_USB3_1 Gen2 port 1, 2 stack connector  LAN2_USB3_4  LAN2 / USB 3.1 Gen2 port 3, 4 stack connector  LAN3_4  LAN3 & LAN4 connector  LAN4 LAN4 Connector  LOW pin count connector  LOW pin count connector for Advantech TPM and RS232/422/485 module  PCIEX4_SLOT4  PCIE x1 slot (Gen3 x4 link)  PCIEX16_SLOT6  PCIE x16 slot (Gen3 x16 link)		DDR4 288-pin slot		
GPIO1 8-bit GPIO header  HDMI1_VGA1 HDMI + VGA connector  JFP1 Power Switch / Reset connector  External speaker / HDD LED connector/ SMBus connector  Keyboard Lock and Power LED Suspend: Fast flash (ATX/ AT) System On: ON (ATX/ AT)  System Of: OFF (ATX/AT)  KBMS1 External keyboard and mouse connector (6-pin)  LAN1_USB1_2, LAN1 / USB 3.1 Gen2 port 1, 2 stack connector  LAN2_USB3_4 LAN2 / USB 3.1 Gen2 port 3, 4 stack connector  LAN3_4 LAN3 & LAN4 connector  LAN3_4 LAN4 Connector  LAN LED extension connector  LOW pin count connector  LOW pin count connector for Advantech TPM and RS232/422/485 module  PCIEX4_SLOT4 PCIe x4 slot (Gen3 x4 link)  PCIEX16_SLOT5 PCIe x1 slot (Gen3 x1 link)	EX_THR1			
HDMI1_VGA1	FPAUD1	Front Panel Audio Header		
JFP1 Power Switch / Reset connector  JFP2 External speaker / HDD LED connector/ SMBus connector  Keyboard Lock and Power LED Suspend: Fast flash (ATX/ AT) System On: ON (ATX/ AT) System Off: OFF (ATX/AT)  KBMS1 External keyboard and mouse connector (6-pin)  LAN1_USB1_2, LAN2_USB3_4 LAN2_USB3_1 Gen2 port 1, 2 stack connector  LAN3_4 LAN2_USB3_1 Gen2 port 3, 4 stack connector  LAN4_LAN4 LAN4 connector  LAN4_LAN5_LAN4 connector  LAN4_LAN5_LAN4 connector  LOW pin count connector  LOW pin count connector for Advantech TPM and RS232/422/485 module  PCIEX4_SLOT4 PCIe x4 slot (Gen3 x4 link)  PCIEX1_SLOT5 PCIe x1 slot (Gen3 x1 link)  PCIEX16_SLOT6 PCIe x16 slot (Gen3 x16 link)	GPIO1	8-bit GPIO header		
JFP2  External speaker / HDD LED connector/ SMBus connector  Keyboard Lock and Power LED Suspend: Fast flash (ATX/ AT) System On: ON (ATX/ AT)  System On: ON (ATX/AT)  External keyboard and mouse connector (6-pin)  LAN1_USB1_2, LAN2_USB3_4  LAN2_USB3_1 Gen2 port 1, 2 stack connector  LAN2_USB3_1 LAN2 / USB 3.1 Gen2 port 3, 4 stack connector  LAN3_4  LAN3_8 LAN4 connector  LAN4 LAN4 Connector  LOW pin count connector  LPC1  LOW pin count connector  LPC1  PC1 LOW pin count connector  LOW pin c	HDMI1_VGA1	HDMI + VGA connector		
JFP3  Keyboard Lock and Power LED Suspend: Fast flash (ATX/ AT) System On: ON (ATX/ AT) System Off: OFF (ATX/AT)  External keyboard and mouse connector (6-pin)  LAN1_USB1_2, LAN2_USB3_4  LAN2_USB3_4  LAN2 / USB 3.1 Gen2 port 1, 2 stack connector  LAN3_4  LAN3 & LAN4 connector  LAN4 LAN4 LAN4 connector  LAN4 LAN5 LAN4 connector  LOW pin count connector  LOW pin count connector for Advantech TPM and RS232/422/485 module  PCIEX4_SLOT4  PCIE x4 slot (Gen3 x4 link)  PCIEX16_SLOT6  PCIE x16 slot (Gen3 x16 link)	JFP1	Power Switch / Reset connector		
JFP3  Suspend: Fast flash (ATX/ AT) System On: ON (ATX/ AT) System Off: OFF (ATX/AT)  External keyboard and mouse connector (6-pin)  LAN1_USB1_2, LAN1_USB3_1 Gen2 port 1, 2 stack connector  LAN2_USB3_4  LAN2_USB3_4  LAN3 & LAN4 connector  LAN3_4  LAN3 & LAN4 connector  LANLED1  LAN LED extension connector  LOW pin count connector  LOW pin count connector for Advantech TPM and RS232/422/485 module  PCIEX4_SLOT4  PCIE x4 slot (Gen3 x4 link)  PCIEX1_SLOT5  PCIE x1 slot (Gen3 x16 link)	JFP2			
Connector (6-pin)  LAN1_USB1_2, LAN2_USB3_4  LAN2_USB3_4  LAN3_4  LAN3_8 LAN4 connector  LANLED1  LAN LED extension connector  LOW pin count connector  LOW pin count connector tor for Advantech TPM and RS232/422/485 module  PCIEX4_SLOT4  PCIEX1_SLOT5  PCIE x1 slot (Gen3 x1 link)  PCIEX16_SLOT6  PCIE x16 slot (Gen3 x16 link)	JFP3	Suspend: Fast flash (ATX/ AT) System On: ON (ATX/ AT)		
LAN1_USB1_2,         stack connector           LAN2_USB3_4         LAN2 / USB 3.1 Gen2 port 3, 4 stack connector           LAN3_4         LAN3 & LAN4 connector           LANLED1         LAN LED extension connector           LPC1         Low pin count connector for Advantech TPM and RS232/422/485 module           PCIEX4_SLOT4         PCIE x4 slot (Gen3 x4 link)           PCIEX1_SLOT5         PCIE x1 slot (Gen3 x1 link)           PCIEX16_SLOT6         PCIE x16 slot (Gen3 x16 link)	KBMS1			
LANLED1 LAN LED extension connector  Low pin count connector tor for Advantech TPM and RS232/422/485 module  PCIEX4_SLOT4 PCIe x4 slot (Gen3 x4 link)  PCIEX1_SLOT5 PCIe x1 slot (Gen3 x1 link)  PCIEX16_SLOT6 PCIe x16 slot (Gen3 x16 link)		stack connector  LAN2 / USB 3.1 Gen2 port 3, 4		
LPC1 Low pin count connector for Advantech TPM and RS232/422/485 module  PCIEX4_SLOT4 PCIe x4 slot (Gen3 x4 link)  PCIEX1_SLOT5 PCIe x1 slot (Gen3 x1 link)  PCIEX16_SLOT6 PCIe x16 slot (Gen3 x16 link)	LAN3_4	LAN3 & LAN4 connector		
LPC1         tor for Advantech TPM and RS232/422/485 module           PCIEX4_SLOT4         PCIe x4 slot (Gen3 x4 link)           PCIEX1_SLOT5         PCIe x1 slot (Gen3 x1 link)           PCIEX16_SLOT6         PCIe x16 slot (Gen3 x16 link)	LANLED1	LAN LED extension connector		
PCIEX1_SLOT5         PCle x1 slot (Gen3 x1 link)           PCIEX16_SLOT6         PCle x16 slot (Gen3 x16 link)	LPC1	tor for Advantech TPM and		
PCIEX16_SLOT6 PCIe x16 slot (Gen3 x16 link)	PCIEX4_SLOT4	PCIe x4 slot (Gen3 x4 link)		
	PCIEX1_SLOT5	PCle x1 slot (Gen3 x1 link)		
	PCIEX16_SLOT6	PCle x16 slot (Gen3 x16 link)		
PCIEX4_SLOT7 PCIe x4 slot (Gen3 x4 link)	PCIEX4_SLOT7	PCIe x4 slot (Gen3 x4 link)		

# **Jumpers and Connectors (Cont.)**

Connector list				
PMBUS1	PMBUS connector to communicate with power supply			
SATA0~7	SATA III (6Gb/s)			
SPDIF_OUT1	SPDIF Audio output pin header			
SYS_LED1	System Information LED Connector			
SPI4	BIOS SPI ROM			
SYSFAN0,SYSFAN1, SYSFAN2,SYSFAN3	System FAN connector			
SPI_CN1	SPI flash card pin header			
SMBUS1	SMBus From PCH			
SGPIO1, SGPIO2	Serial General Purpose I/O			
USB7_8, USB9_10, USB11_12	USB 2.0 Port (Header)			
USB13	USB 2.0 Port (USB Type A)			
USB5_6	USB 3.1 Gen1 Port (Header)			
VOLT1	Voltage Display			

\*COM1 is directed to the PCB silk screen as COM1 or COM3 but in BIOS it shows as COM1.

Jumper list	
Label	Function
CPUFAN_SEL1, SYSFAN_SEL1	FAN PWM (1-2) / DC mode (2-3)
HDMI_I2C1	For RD debugging
JCMOS1	CMOS clear
JME1	Intel ME Disable Jumper for ME/ BIOS update
JWDT1	Watch Dog Reset
JUSB1	Rear window USB 3.1 Gen2 port power source switch between +5 VSB and +5 V
JUSB2	On board USB2.0/3.1 Gen1 port power source switch between +5 VSB and +5 V
JCASE1	Case Open
JPEG1, JPEG2	x16 or x8x8 or x8x4x4 for slot-6
JTHR_SEL1	Selects on board or external thermistor
JPEG3	Default (1-2)/reserve for RD debug (2-3)
JSMB1	For RD debug purpose
PSON1	AT(1-2) / ATX(2-3)

# **Jumpers and Connectors (Cont.)**

JWDT1: Watchdog timer output option		
Closed Pins	Result	
1-2	System reset*	
2-3	NC	
*: Default		



PSON1: ATX, AT mode selector		
Closed Pins	Result	
1-2	AT Mode	
2-3	ATX Mode*	
*: Default		

1 2 3	1 2 3
000	
AT Mode 1-2 closed	ATX Mode 2-3 closed

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		



PCIEX16_Slot6 Configuration (JPEG2, JPEG1)				
Function	JPEG1	JPEG2		
Slot6 PCle x16 (Default)	1 2 3 0 0 0 1-2 closed	1 2 3 0 0 0 1-2 closed		
Slot6 PCle x8x8	1 2 3  □ ○ ○ ○  2-3 closed	1 2 3 0 0 0 1-2 closed		
Slot6 PCle x8x4x4	1 2 3	1 2 3		

### **Installation Note**

JFP1	3	6	9	12		PWRSW	RESET	
&	2(+)	5(-)	8	11		HDDLED	SNMP SM_BUS	
JFP2	1(+)	4	7	10(-)		SPEA	KER	
JFP3	1	2	3	4	5	PWRLED 6	& KEYLOC	K

JFP1, JFP2	
Pin.3	#PWR_SW
Pin.6	GND
Pin.9	#RST_SW
Pin.12	GND

<sup>\*</sup>Power button pin is located in Pin 3 & 6 of front panel connector

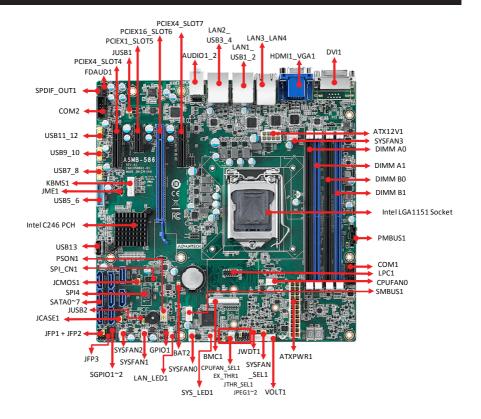
## **Declaration of Conformity**



Caution! 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.

This 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: Jumper and Connector Locations