

**Micro ATX motherboard supports 22nm LGA1150 Intel® Core™  
i7/i5/i3/Pentium® and Celeron® CPU per Intel® Q87, DDR3,  
HDMI/ DVI-D/ VGA / DP, Dual Intel® PCIe GbE, USB 3.0,  
SATA 6Gb/s, Six Serial Ports, Audio, iRIS-2400 and RoHS**

# **IMB-Q870-i2**

## **Quick Installation Guide**

**Version 1.0**

Dec 26, 2013.

### **Package List**

IMB-Q870-i2 package includes the following items:

- 1 x IMBA-Q870-i2 single board computer
- 1 x I/O shielding (P/N: 45014-0046C0-00-RS)
- 2 x SATA cable (P/N: 32000-062800-RS)
- 1 x Utility CD
- 1 x QIG (Quick Installation Guide)



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## Specifications

- CPU:  
LGA1150 Intel® 4th generation Core™ i7/i5/i3/ Pentium®/ Celeron® processor supported
- System Chipset: Intel® Q87
- Memory:  
Four 240-pin 1600/1333MHz dual-channel DDR3 SDRAM unbuffered DIMMs support up to 32GB
- BIOS: UEFI BIOS
- Graphic Engine:  
Intel® HD Graphics Gen 7.5 support for DX11.1 and OpenCL 1.2, OpenGL 3.2 Full MPEG2, VC1, AVC Decode
- Display Output:  
VGA (Up to 1920x1200 @ 60 Hz)  
DVI-I (Up to 2560x1600 @ 60 H)  
HDMI (Up to 2560x1600 @ 60 Hz)  
iDP interface for HDMI, LVDS, VGA, DVI, DP (Up to 3840x2160 @60 Hz)
- Ethernet:  
LAN1: Intel® I210 PCIe controller  
LAN2: Intel® I217LM with Intel® AMT 9.0 support
- Super IO: Fintek F81866
- EC: IWDD
- Digital I/O: 8-bit digital I/O (4-bit input / 4-bit output)
- Audio:  
Realtek ALC662 HD Audio codec (Line-in, Line-out, Mic)
- I/O Interface:  
5 x RS-232  
1 x RS-422/485  
4 x SATA 6Gb/s (RAID 0/1/5/10 support)  
4 x USB 3.0 (2 on rear, 2 by pin header)  
8 x USB 2.0 (4 on rear, 4 by pin header)

- 1 x 6-pin wafer for PS/2 KB/MS
- 1 x 6-pin connector for PS2 KB/MS (Rear I/O)
- Watchdog Timer:
  - Software programmable support 1~255 sec. system reset
- FAN:
  - 1 x 4-pin CPU fan connector
  - 2 x 3-pin system fan connectors
- Front Audio:
  - 1 x 10-pin (2x5) header
- Front Panel:
  - 1 x Front Panel
  - (Power LED, HDD LED, Speaker, Power Button, Reset Button)
- LAN LED: 2 x 2-pin (1x2) header for LAN1 LED, LAN2 LED
- TPM: 1 x 20-pin (2x10) header
- SMBus: 1 x 4-pin (1x4) wafer
- I2C: 1 x 4-pin (1x4) wafer
- IPMI: 1 x DDR3 SO-DIMM slot supports iRIS-2400
- Expansion:
  - 1 x PCIe x16 slot
  - 1 x PCIe x1 slot
  - 1 x PCIe x4 slot (with PCIe x1 signal)
  - 1 x PCI slot
- Power supply: ATX Power Supply
- Power Consumption:
  - 3.3V@0.53A, 5V@4.96A, 12V@0.12A, Vcore@3.95A, 5VSB@0.18A (Intel® i5 2.70GHz CPU with four 1333MHz 2GB DDR3 memory)
- Operation Temperature: -20°C ~ 60°C
- Operation Humidity: 5% ~ 95%, non-condensing
- Dimensions: 244mm x 244mm
- Weight GW/NW: 1200g / 700g

## Ordering Information

- **IMB-Q870-i2-R10:**  
Micro ATX Motherboard supports 22nm LGA1150 Intel® Core™ i7/i5/i3/Pentium® and Celeron® CPU per Intel® Q87, DDR3, HDMI/ DVI-D/ VGA / DP, Dual Intel® PCIe GbE, USB 3.0, Audio, SATA 6Gb/s, Six Serial Ports, iRIS-2400 and RoHS
- **19800-003100-200-RS:** Dual ports USB cable with bracket
- **19800-010500-100-RS:** USB 3.0 cable with bracket
- **32205-003800-100-RS:** RS-422/485 cable, 200mm
- **19800-000051-RS:** RS-232 cable, 230mm (P=2.54)
- **32102-000100-200-RS:**  
SATA power cable, MOLEX 5264-4P to SATA15P
- **19800-000075-RS:** PS/2 KB/MS Y-cable with bracket, 220mmz
- **CF-1156A-RS-R11:**  
High performance LGA1155/LGA1156 cooler kit, 1U chassis compatible, 73W
- **CF-1156E-R11:**  
High performance LGA1155/LGA1156 cooler kit, 95W
- **DP-LVDS-R10:**  
DisplayPort to 24 bit dual channel LVDS converter board  
(For iEi IDP connector)
- **DP-HDMI-R10:**  
DisplayPort to HDMI converter board (For iEi IDP connector)
- **DP-DVI-R10:**  
DisplayPort to DVI-D converter board (For iEi IDP connector)
- **DP-VGA-R10:**  
DisplayPort to VGA converter board (For iEi IDP connector)
- **DP-DP-R10:**  
DisplayPort to DisplayPort converter board (For iEi IDP connector)
- **TPM-IN01-R11:**  
20-Pin Infineon TPM module, software management tool, firmware V3.17

## Jumpers setting and connectors

LABEL	FUNCTION
J_ATX_AT1	AT/ATX mode select switch
J_CMOS1	Clear CMOS button
PCIEX16 Power	PCIEX16 channel mode setting
USB SW1, USB SW2	USB power setting
J_FLASH1	Flash descriptor security override
BAT1	Battery connector
CHASSIS1	Chassis status connector
CPU_FAN1	CPU fan connector
CPU12V1	+12V power source connector
ATX1	24-pin ATX power source connector
ATXPWR1	PCI-E power connector
CHA_DIMM1, CHA_DIMM2 CHB_DIMM1, CHB_DIMM2	DDR3 DIMM slots
DIO1	Digital I/O connector
DP1	Display port connector
CN3	EC Debug Port Connector
JSPI1	Flash SPI ROM
JSPI2	Flash EC ROM
F_PANEL1	Front panel connector
FRONT_PANEL1	Front panel audio connector
IPMI1	Collocation IPMI module(iRIS-2400)
CN5	I2C connector
KB_MS1	Keyboard and mouse connector
LED_LAN1	LAN1 link LED connector
LED_LAN2	LAN2 link LED connector
CN2	M-SATA card connector
COM3, COM4, COM5, COM6	Internal RS-232 serial port connectors
COM2	Internal RS-422/485 serial port connector
SATA1, SATA2 SATA3, SATA4	Serial ATA 3.0 connectors
CN1	SMBUS connector
SYS_FAN1, SYS_FAN2	System fan connector

TPM1	TPM connector
USB1, USB2	Internal USB 2.0 connectors
CN4	Internal USB 3.0 connector
AUDIO_CV1	HD audio connector
COM1	External RS-232 serial port connector
LAN1_USB1	RJ45 LAN and USB 3.0 connectors
LAN2_USB2	RJ45 LAN and USB 2.0 connectors
K/M_USB1	Keyboard & Mouse and USB 2.0 connectors
HDMI1	HDMI connector
VIDEO1	VGA and DVI-I connectors

#### **J\_ATX\_AT1: AT/ATX mode select switch**

<b>PIN NO.</b>	<b>DESCRIPTION</b>
Short 1 - 2	ATX Mode (default)
Short 2 - 3	AT Mode

#### **J\_CMOS1: Clear CMOS button**

<b>PIN NO.</b>	<b>DESCRIPTION</b>
NC (default)	Keep CMOS Setup (Normal Operation)
Press button	Clear CMOS Setup

#### **J\_FLASH1: Flash descriptor security override**

<b>PIN NO.</b>	<b>DESCRIPTION</b>
Short 1 - 2	Disabled (default)
Short 2 - 3	Enabled

<b>PCIEX16 channel mode setting</b>	
<b>PCIEX16</b>	<b>DESCRIPTION</b>
1 x16 PCIe (default)	1 x16 PCIe
2 x8 PCIe	2 x8 PCIe
1 x8 , 2x4 PCIe	1 x8 , 2x4 PCIe

Aptio Setup Utility - Copyright (C) 2012 American Megatrends, Inc.

Chipset

Auto Power Button Status	[Disabled(ATX)]	
Restore AC Power Loss	[Last State]	-----
> PCI Express Configuration		
> PCI Azalia Configuration		
Power Saving Function(ERP)	[Disabled]	
PCIEX16 Power	[1 x16 PCIe]	
USB SW1	[+5V DUAL]	
USB SW2	[+5V DUAL]	

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<b>USB SW1, USB SW2: USB power setting</b>	
<b>PCIEX16</b>	<b>DESCRIPTION</b>
+5V DUAL (default)	+5V DUAL
+5V	+5V

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Chipset

Auto Power Button Status	[Disabled(ATX)]	
Restore AC Power Loss	[Last State]	-----
> PCI Express Configuration		
> PCI Azalia Configuration		
Power Saving Function(ERP)	[Disabled]	
PCIEX16 Power	[1 x16 PCIe]	
USB SW1	[+5V DUAL]	
USB SW2	[+5V DUAL]	

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<b>BAT1: Battery connector</b>			
<b>PIN NO.</b>	<b>DESCRIPTION</b>	<b>PIN NO.</b>	<b>DESCRIPTION</b>
1	VBATT	2	GND

<b>CHASSIS1: Chassis status connector</b>			
<b>PIN NO.</b>	<b>DESCRIPTION</b>	<b>PIN NO.</b>	<b>DESCRIPTION</b>
1	+3.3VSB	2	CHASSIS OPEN

<b>CPU_FAN1: CPU fan connector</b>			
<b>PIN NO.</b>	<b>DESCRIPTION</b>	<b>PIN NO.</b>	<b>DESCRIPTION</b>
1	GND	2	+12V
3	FANIO	4	PWM

<b>CPU12V1: +12V power source connector</b>			
<b>PIN NO.</b>	<b>DESCRIPTION</b>	<b>PIN NO.</b>	<b>DESCRIPTION</b>
1	GND	2	GND
3	+12V	4	+12V

<b>ATX1: 24-pin ATX power source connector</b>			
<b>PIN NO.</b>	<b>DESCRIPTION</b>	<b>PIN NO.</b>	<b>DESCRIPTION</b>
1	+3.3V	13	+3.3V
2	+3.3V	14	-12V
3	GND	15	GND
4	+5V	16	PS_ON
5	GND	17	GND
6	+5V	18	GND
7	GND	19	GND
8	Power good	20	-5V
9	5VSB	21	+5V
10	+12V	22	+5V
11	+12V	23	+5V
12	+3.3V	24	GND



<b>ATXPWR1: PCI-E power connector</b>			
<b>PIN NO.</b>	<b>DESCRIPTION</b>	<b>PIN NO.</b>	<b>DESCRIPTION</b>
1	+5V	2	GND
3	GND	4	+12V

<b>DIO1: Digital I/O connector</b>			
<b>PIN NO.</b>	<b>DESCRIPTION</b>	<b>PIN NO.</b>	<b>DESCRIPTION</b>
1	GND	2	VCC
3	Output 3	4	Output 2
5	Output 1	6	Output 0
7	Input 3	8	Input 2
9	Input 1	10	Input 0

<b>DP1: Display port connector</b>			
<b>PIN NO.</b>	<b>DESCRIPTION</b>	<b>PIN NO.</b>	<b>DESCRIPTION</b>
1	+5V	2	LANE1N
3	LANE1P	4	GND
5	LANE3N	6	LANE3P
7	GND	8	AUX_CTRL_DET_D
9	GND	10	HPD
11	AUXP	12	AUXN
13	GND	14	LANE2P
15	LANE2N	16	GND
17	LANE0P	18	LANE0N
19	+3.3V	20	NC

<b>CN3: EC debug connector</b>			
<b>PIN NO.</b>	<b>DESCRIPTION</b>	<b>PIN NO.</b>	<b>DESCRIPTION</b>
1	EC_EPP_STB#	2	EC_EPP_AFD#
3	EC_EPP_PD0	4	NC
5	EC_EPP_PD1	6	EC_EPP_INIT#
7	EC_EPP_PD2	8	EC_EPP_SLIN#
9	EC_EPP_PD3	10	GND
11	EC_EPP_PD4	12	NC
13	EC_EPP_PD5	14	EC_EPP_BUSY
15	EC_EPP_PD6	16	EC_EPP_KSI5
17	EC_EPP_PD7	18	EC_EPP_KSI4

<b>JSPI1: Flash SPI ROM connector</b>			
<b>PIN NO.</b>	<b>DESCRIPTION</b>	<b>PIN NO.</b>	<b>DESCRIPTION</b>
1	+3.3V	2	SPI_CS#
3	SPI_SO	4	NC
5	GND	6	SPI_CLK
7	SPI_SI	8	NC

<b>JSPI2: Flash EC ROM connector</b>			
<b>PIN NO.</b>	<b>DESCRIPTION</b>	<b>PIN NO.</b>	<b>DESCRIPTION</b>
1	+3.3V	2	SPI_CS#
3	SPI_SO	4	NC
5	GND	6	SPI_CLK
7	SPI_SI	8	NC

<b>FRONT_PANEL1: Front audio connector</b>			
<b>PIN NO.</b>	<b>DESCRIPTION</b>	<b>PIN NO.</b>	<b>DESCRIPTION</b>
1	MIC2-L	2	GND
3	MIC2-R	4	Presence#
5	LINE2-R	6	MIC2-JD
7	FRONT-IO	8	NC
9	LINE2-L	10	LINE2-JD

<b>F_PANEL1: Front panel connector</b>					
	<b>PIN</b>	<b>DESCRIPTION</b>	<b>PIN</b>	<b>DESCRIPTION</b>	
PWR LED	1	+5V	2	BEEP_PWR	SPKR
	3	NC	4	IPMI ID_LED+	IPMI LED
	5	GND	6	IPMI ID_LED-	
PWR BTN	7	PWRBTN_SW#	8	PC_BEEP	SPKR
	9	GND	10	NC	
HDD LED	11	+5V	12	EXTRST-	RESET
	13	SATA_LED#	14	GND	

<b>CN5: I2C connector</b>			
<b>PIN NO.</b>	<b>DESCRIPTION</b>	<b>PIN NO.</b>	<b>DESCRIPTION</b>
1	GND	2	PCH_GP38
3	PCH_GP39	4	+5V

<b>KB_MS1: Keyboard and mouse connector</b>			
<b>PIN NO.</b>	<b>DESCRIPTION</b>	<b>PIN NO.</b>	<b>DESCRIPTION</b>
1	VCC	2	MSDATA
3	MSCLK	4	KBDATA
5	KBCLK	6	GND

<b>LED_LAN1: LAN1 link LED connector</b>			
<b>PIN NO.</b>	<b>DESCRIPTION</b>	<b>PIN NO.</b>	<b>DESCRIPTION</b>
1	+3.3V	2	LAN1_LED_LNK#_ACT

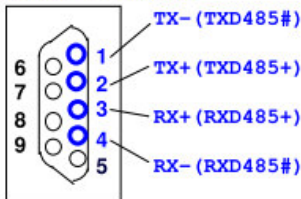
<b>LED_LAN2: LAN2 link LED connector</b>			
<b>PIN NO.</b>	<b>DESCRIPTION</b>	<b>PIN NO.</b>	<b>DESCRIPTION</b>
1	+3.3V	2	LAN2_LED_LNK#_ACT

<b>CN2: M-SATA card connector</b>			
<b>PIN NO.</b>	<b>DESCRIPTION</b>	<b>PIN NO.</b>	<b>DESCRIPTION</b>
1	PCIE_WAKE#	2	+3.3V
3	N/C	4	GND
5	N/C	6	1.5V
7	N/C	8	N/C
9	GND	10	N/C
11	MSATA_CLK#	12	N/C
13	MSATA_CLK	14	N/C
15	GND	16	N/C
17	PLTRST_N	18	GND
19	N/C	20	+3.3V
21	GND	22	PLTRST_N
23	SATA_RX+	24	+3.3V
25	SATA_RX-	26	GND
27	GND	28	1.5V
29	GND	30	SMB_CLK
31	SATA_TX-	32	SMB_DATA
33	SATA_TX+	34	GND
35	GND	36	USB_DATA-
37	GND	38	USB_DATA+
39	+3.3V	40	GND
41	+3.3V	42	N/C
43	+3.3V	44	N/C
45	CLINK_CLK	46	N/C
47	CLINK_DATA	48	1.5V
49	CLINK_RST#	50	GND
51	MSATA_DET	52	+3.3V

COM3, COM4, COM5, COM6: Internal RS-232 serial port connectors				
Function	PIN	DESCRIPTION	PIN	DESCRIPTION
COM3	1	DCD	2	DSR
	3	RXD	4	RST
	5	TXD	6	CTS
	7	DTR	8	RI
	9	GND	10	GND
COM4	11	DCD	12	DSR
	13	RXD	14	RST
	15	TXD	16	CTS
	17	DTR	18	RI
	19	GND	20	GND
COM5	21	DCD	22	DSR
	23	RXD	24	RST
	25	TXD	26	CTS
	27	DTR	28	RI
	29	GND	30	GND
COM6	31	DCD	32	DSR
	33	RXD	34	RST
	35	TXD	36	CTS
	37	DTR	38	RI
	39	GND	40	GND

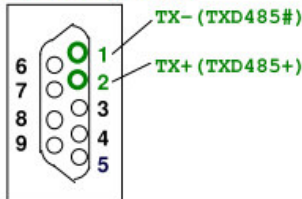
COM2: RS-422/485 serial port connector			
PIN NO.	DESCRIPTION	PIN NO.	DESCRIPTION
1	RXD485#	2	RXD485+
3	TXD485+	4	TXD485#

RS422 Pin define



D-SUB 9PIN MALE

RS485 Pin define



D-SUB 9PIN MALE

<b>SATA1, SATA2, SATA3, SATA4: Serial ATA 3.0 connectors</b>			
<b>PIN NO.</b>	<b>DESCRIPTION</b>	<b>PIN NO.</b>	<b>DESCRIPTION</b>
1	GND	2	SATA_TX+
3	SATA_TX-	4	GND
5	SATA_RX-	6	SATA_RX+
7	GND		

<b>CN1: SMBUS connector</b>			
<b>PIN NO.</b>	<b>DESCRIPTION</b>	<b>PIN NO.</b>	<b>DESCRIPTION</b>
1	GND	2	SMB_DATA
3	SMB_CLK	4	+5V

<b>SYS_FAN1, SYS_FAN2: System fan connector</b>			
<b>PIN NO.</b>	<b>DESCRIPTION</b>	<b>PIN NO.</b>	<b>DESCRIPTION</b>
1	FANIO	2	+12V (PWM)
3	GND		

<b>TPM1: TPM connector</b>			
<b>PIN NO.</b>	<b>DESCRIPTION</b>	<b>PIN NO.</b>	<b>DESCRIPTION</b>
1	LCLK	2	GND
3	LFRAME#	4	NC
5	LRERST#	6	+5V
7	LAD3	8	LAD2
9	+3.3V	10	LAD1
11	LAD0	12	GND
13	SCL	14	SDA
15	SB3V	16	SERIRQ
17	GND	18	GLKRUN#
19	LPCPD#	20	LDRQ#

<b>USB1, USB2: Internal USB 2.0 connectors</b>			
<b>PIN NO.</b>	<b>DESCRIPTION</b>	<b>PIN NO.</b>	<b>DESCRIPTION</b>
1	VCC	2	GND
3	USB_DATA-	4	USB_DATA+
5	USB_DATA+	6	USB_DATA-
7	GND	8	VCC

<b>CN4: Internal USB 3.0 connector</b>			
<b>PIN NO.</b>	<b>DESCRIPTION</b>	<b>PIN NO.</b>	<b>DESCRIPTION</b>
1	VCC	2	USB3_RX-
3	USB3_RX+	4	GND
5	USB3_TX-	6	USB3_TX+
7	GND	8	USB_DATA-
9	USB_DATA+	10	NC
11	USB_DATA+	12	USB_DATA-
13	GND	14	USB3_TX+
15	USB3_TX-	16	GND
17	USB3_RX+	18	USB3_RX-
19	VCC	20	NC

<b>COM1: External RS-232 serial port connector</b>			
<b>PIN NO.</b>	<b>DESCRIPTION</b>	<b>PIN NO.</b>	<b>DESCRIPTION</b>
1	DCD1	2	RXD1
3	TXD1	4	DTR1
5	GND1	6	DSR1
7	RTS1	8	CTS1
9	RI1		

<b>LAN1_USB1: Ethernet and USB 3.0 connectors</b>			
<b>USB1: External USB 3.0 connectors</b>			
<b>PIN NO.</b>	<b>DESCRIPTION</b>	<b>PIN NO.</b>	<b>DESCRIPTION</b>
1	VCC	10	VCC
2	USB_DATA-	11	USB_DATA-
3	USB_DATA+	12	USB_DATA+
4	GND	13	GND
5	USB3_RX-	14	USB3_RX-
6	USB3_RX+	15	USB3_RX+
7	GND	16	GND
8	USB3_TX-	17	USB3_TX-
9	USB3_TX+	18	USB3_TX+
<b>LAN1: RJ45 LAN connector</b>			
<b>PIN NO.</b>	<b>DESCRIPTION</b>	<b>PIN NO.</b>	<b>DESCRIPTION</b>
20	LAN1_MDI0P	24	LAN1_MDI2P
21	LAN1_MDI0N	25	LAN1_MDI2N
22	LAN1_MDI1P	26	LAN1_MDI3P
23	LAN1_MDI1N	27	LAN1_MDI3N

<b>LAN2_USB2: Ethernet and USB 2.0 connectors</b>			
<b>USB2: External USB 2.0 connectors</b>			
<b>PIN NO.</b>	<b>DESCRIPTION</b>	<b>PIN NO.</b>	<b>DESCRIPTION</b>
1	VCC	5	VCC
2	USB_DATA-	6	USB_DATA-
3	USB_DATA+	7	USB_DATA+
4	GND	8	GND
<b>LAN2: RJ45 LAN connector</b>			
<b>PIN NO.</b>	<b>DESCRIPTION</b>	<b>PIN NO.</b>	<b>DESCRIPTION</b>
P2	TRD2P0	P6	TRD2P2
P3	TRD2N0	P7	TRD2N2
P4	TRD2P1	P8	TRD2P3
P5.	TRD2N1	P9	TRD2N3

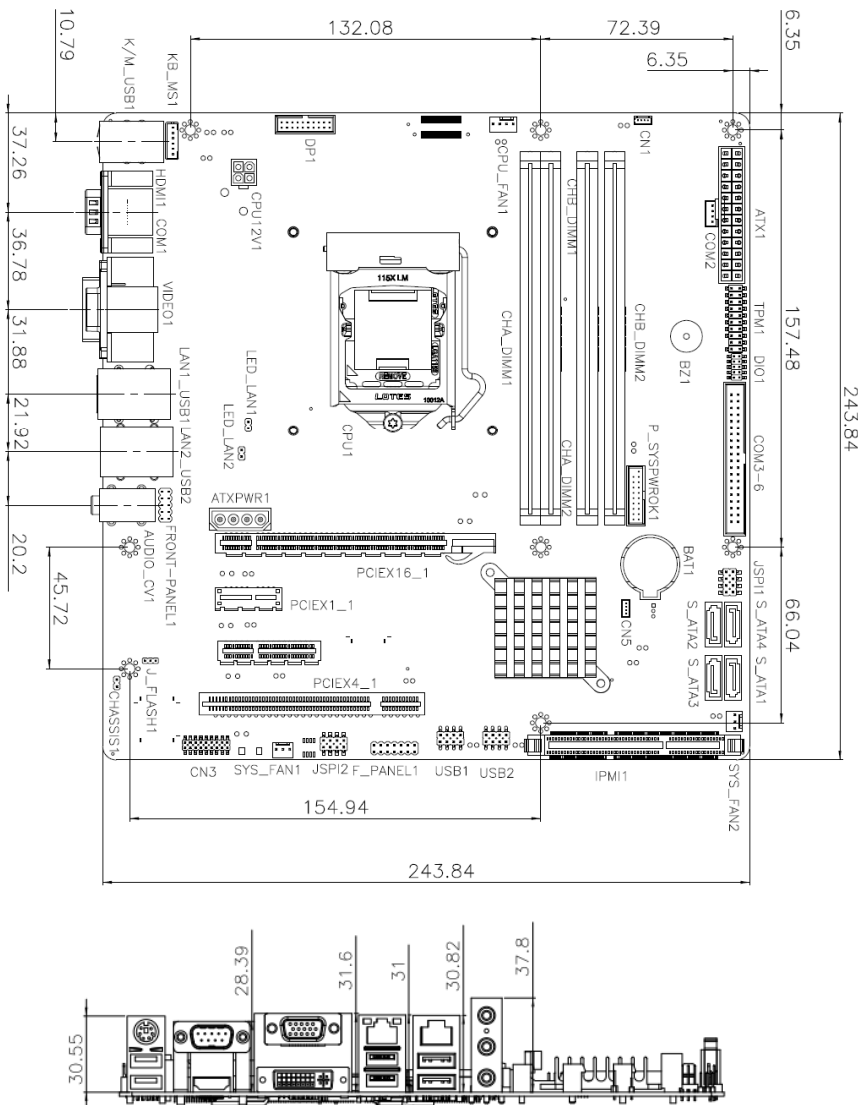


<b>K/M_USB1: Keyboard &amp; Mouse and USB 2.0 connectors</b>			
<b>USB1: External USB 2.0 connectors</b>			
<b>PIN NO.</b>	<b>DESCRIPTION</b>	<b>PIN NO.</b>	<b>DESCRIPTION</b>
1	VCC	5	VCC
2	USB_DATA-	6	USB_DATA-
3	USB_DATA+	7	USB_DATA+
4	GND	8	GND
<b>KB_MS1: Keyboard / Mouse connector</b>			
<b>PIN NO.</b>	<b>DESCRIPTION</b>	<b>PIN NO.</b>	<b>DESCRIPTION</b>
9	GND	10	KEYBOARD DATA
11	MOUSE DATA	12	VCC
13	KEYBOARD CLOCK	14	MOUSE CLOCK

<b>HDMI1: HDMI connector</b>			
<b>PIN NO.</b>	<b>DESCRIPTION</b>	<b>PIN NO.</b>	<b>DESCRIPTION</b>
1	HDMI_DATA2	13	N/C
2	GND	14	N/C
3	HDMI_DATA2#	15	HDMI_SCL
4	HDMI_DATA1	16	HDMI_SDA
5	GND	17	GND
6	HDMI_DATA1#	18	+5V
7	HDMI_DATA0	19	HDMI_HPD
8	GND	20	HDMI_GND
9	HDMI_DATA0#	21	HDMI_GND
10	HDMI_CLK	22	HDMI_GND
11	GND	23	HDMI_GND
12	HDMI_CLK#		

<b>VIDEO1: VGA and DVI-I connectors</b>			
<b>VGA: VGA connector</b>			
<b>PIN NO.</b>	<b>DESCRIPTION</b>	<b>PIN NO.</b>	<b>DESCRIPTION</b>
1	RED	2	GREEN
3	BLUE	4	NC
5	GND	6	GND
7	GND	8	GND
9	VCC	10	GND
11	NC	12	DDCDA
13	HSYNC	14	VSYNC
15	DDCCLK		
<b>DVI-I: DVI-I connector</b>			
C1	RED	10	DVI_DATA1
C2	GREEN	11	GND
C3	BLUE	12	N/C
C4	HS	13	N/C
C5	GND	14	+5V
C6	NC	15	Hot Plug Detect
1	DVI_DATA2#	16	HPDET
2	DVI_DATA2	17	DVI_DATA0#
3	GND	18	DVI_DATA0
4	N/C	19	GND
5	N/C	20	N/C
6	DDC CLK	21	N/C
7	DDC DATA	22	N/C
8	VS	23	DVI_CLK
9	DVI_DATA1#	24	DVI_CLK#

# Board Layout: Jumper and Connector Locations



(Unit: mm)