User's Manual

EEC410 Series

FCC

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at own expense.

CE

This device complies with the requiements of the EEC directive 2004/108/EC with regard to "Electromagnetic compatibility" and 2006/95/EC "Low Voltage Directive".

SAFETY INSTRUCTIONS

1. Read these safety instructions carefully and keep this User's Manual for later reference.
2. Don't use liquid or spray detergent for cleaning. Use only a moistened sheet or cloth.
3. Follow all warnings and instructions listed on the product.
4. Keep this equipment from extreme humidity areas.
5. Lay this equipment on a stable surface when installing.
6. Do not leave this equipment in a non-air conditioned environment, or in a storage temperature above 60° C. Such conditions may damage the equipment.
7. Slots and openings in the cabinet are provided for ventilation, to ensure reliable operation and to protect it from overheating. These openings must not be blocked or covered.
9. Place the power cord so that it will not be stepped on. Do not place anything over the power cord. The power cord must be rated for the product and for the voltage and current marked on the product's electrical ratings label. The voltage and current rating of the cord should be greater than the voltage and current rating marked on the product.
10. If the equipment is not used for a long time, disconnect the equipment from the mains to avoid damage.
11. Never open the equipment. For safety reasons, only qualified service personnel should open the equipment.
12. Never put any kind of objects into this product through cabinet slots or openings as they may cause damage of the equipment.
12. If one of the following situations arises, get the equipment checked by service personnel:

a. The Power cord or plug is damaged.
b. Liquid has penetrated the equipment.
c. The equipment has been exposed to extreme moisture conditions.
d. The equipment does not work well or you cannot get it work according to the user's manual.
e. The Equipment has been dropped and damaged.
f. The equipment has obvious signs of damage.

Table of Content

Chapter 1
Introduction

1.1 Packing List

- EEC410 series barebone system
- CD for user's manual and motherboard chipset drivers.
- CPU cooler(depends on corresponsive MB & CPU)
- Power cord(Optional).
- Wall mount/Table mount brackets(Optional)

1.2 Specification

1.2.1 System Specification

• Mini-ITX System

• Advansus Mini-ITX MB: iQ965-CI, i965GM-DCQI Mini-ITX Main Board.

• Scalable with more Mini-ITX MB Options

• Support mobile and desktop CPUs up to Intel® Core 2 Quad Series

• 5.1+2-CH Dual Audio Streams, with 6W Audio Amplifier

• Gigabit LAN

• 1 x PCI / PCIe Slot , 1 x 2.5" HDD

•2 Powered COM,6 USB,1 AC,2 PS2,1 VGA,1 DVI(Not Available for iQ965-CI),1 RJ45(Dual for i965GM-DCQI),3 Audio Jacks

• ADD2 HDMI / VGA / DVI / LVDS Card(iQ965-CI)

• TPM Solution Onboard

• Built-in full ranged 180W/200W PSU

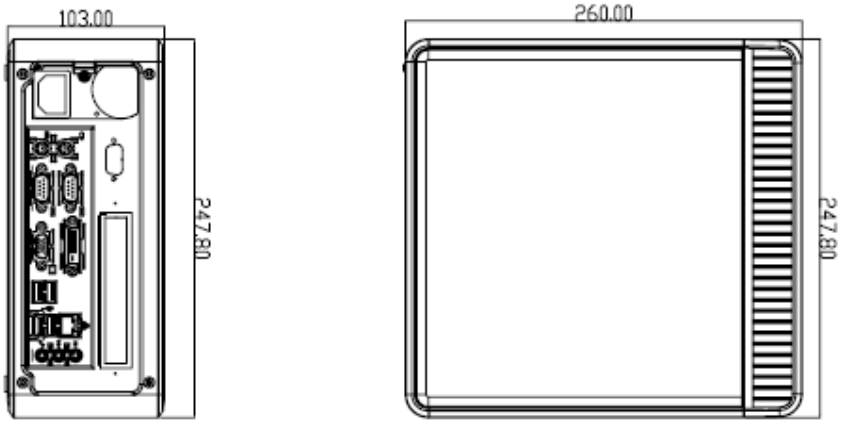
• Optional Wall / Desk Mount

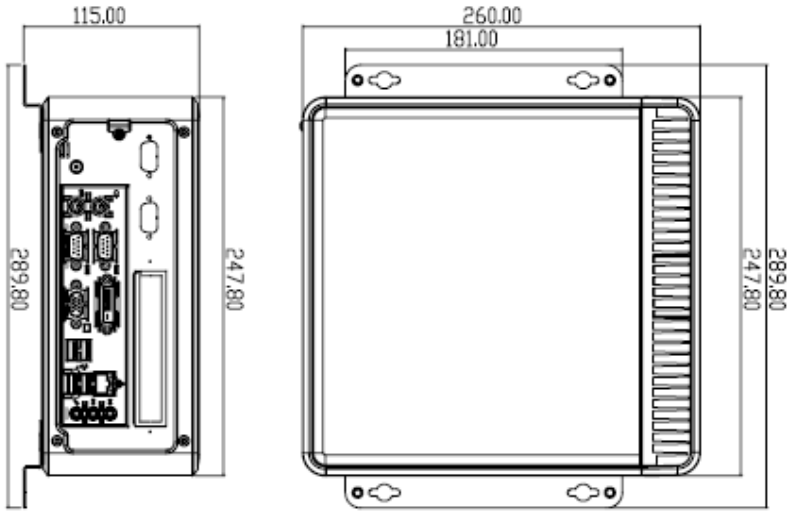
1.3 System View

1.3.1 Front view

1.3.2 Rear view(It may vary in different MBs)

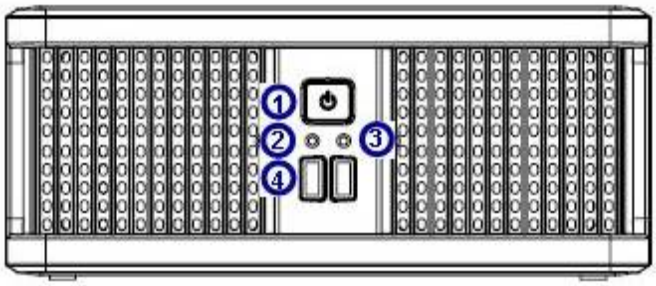
1.3.3 Dimension

Dimensions	
System Dimensions(without mounting kit)	

Dimensions	
System Dimensions(with mounting kit)	
Carton Dimensions	Outside Dimension：L356xW340xH195

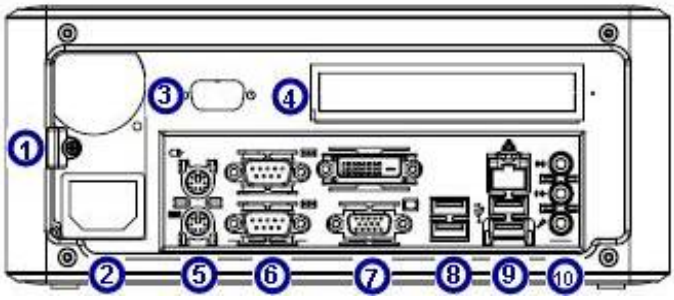
1.4 Connector Panels

1.4.1 Front Connector Panel

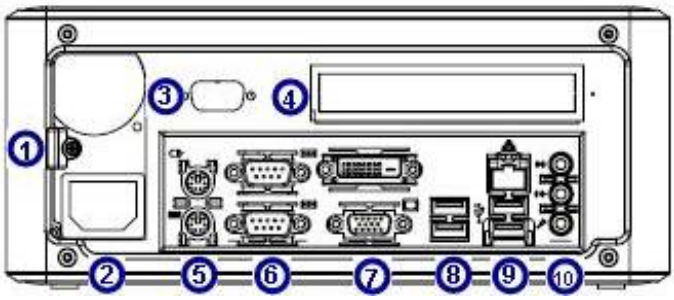


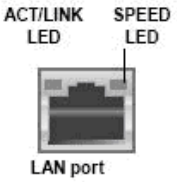
No	Function	Description
1	ATX Power Button	ATX power switch function.
2	System Power LED	System power LED lights up when the system power is on, and blinks when the system is in sleep mode.
3	HDD Activity LED	IDE LED lights up or flashes when data is read from or written to the HDD.
4	USB 2.0 connector x 2	These two 4-pin Universal Serial Bus (USB) ports are available for connecting USB 2.0/1.1 devices.

1.4.2 Rear Connector Panel(IO may vary in different MBs)



No	Function	Description
1	Cable Hook	This hook is to fix the cable.
2	AC-IN Connector	Connect EEC410 to the AC outlet
3	Knock-out	Reserved for COM cable.
4	PCI/PCI_E Opening	Opening for PCI/PCI-E add-on-card.
5	TOP: PS/2 mouse connector BOT: PS/2 keyboard connector	TOP: The standard PS/2 DIN is for a PS/2 mouse. BOT: The standard PS/2 DIN is for a PS/2 keyboard.
6	Serial port connector x 2	D-sub 9-pin, male
7	TOP: DVI port BOT: VGA port	TOP: This port is for a DVI interfaced monitor. BOT: This VGA port is for use with an external LCD or CRT monitor.
8	USB 2.0 connector	These two 4-pin Universal Serial Bus (USB) ports are available for connecting USB 2.0 devices.



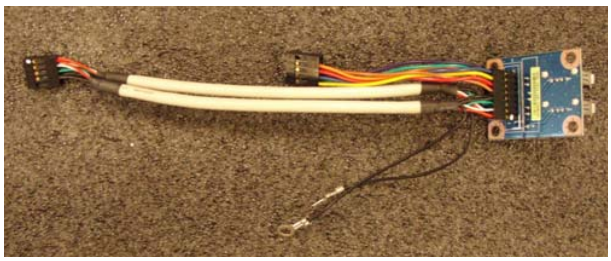
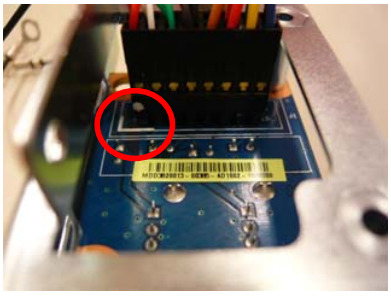
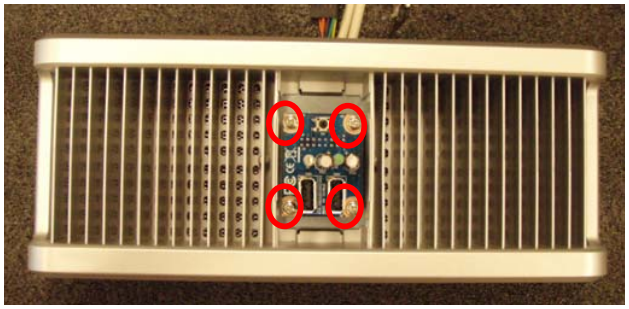
<table>
<tr><th>No</th><th>Function</th><th>Description</th></tr>
<tr><td>9</td><td>TOP: LAN (RJ-45) connector
 

BOT: USB 2.0 connector</td><td>TOP: This port allows Gigabit connection to a Local Area Network (LAN) through a network hub. Refer to the table below for the LAN port LED indications. The optional 10/100 Mbps LAN controller allows 10/100 Mbps connection to a Local Area Network (LAN) through a network hub.
<table>
<tr><th colspan="2">ACT / LINK LED</th><th colspan="2">SPEED LED</th></tr>
<tr><th>Status</th><th>Description</th><th>Status</th><th>Description</th></tr>
<tr><td>OFF</td><td>No link</td><td>OFF</td><td>10Mbps connection</td></tr>
<tr><td>Orange</td><td>Linked</td><td>ORANGE</td><td>100Mbps connection</td></tr>
<tr><td>Blinking</td><td>Data activity</td><td>GREEN</td><td>1Gbps connection</td></tr>
</table>
These two 4-pin Universal Serial Bus (USB) ports are available for connecting USB 2.0 devices.</td></tr>
<tr><td>10</td><td>TOP: Line-In port (Light Blue).
CEN: Line-Out port (Lime)
BOT: Microphone port (Pink)</td><td>TOP: This port connects a tape, CD, DVD player, or other audio sources.
CEN: This port connects a headphone or a speaker. In 4-channel, 6-channel, and 8-channel configuration, the function of this port becomes Front Speaker Out.
BOT: This port connects a microphone.</td></tr>
</table>

Chapter 2
Assembly

2.1 System Assembly

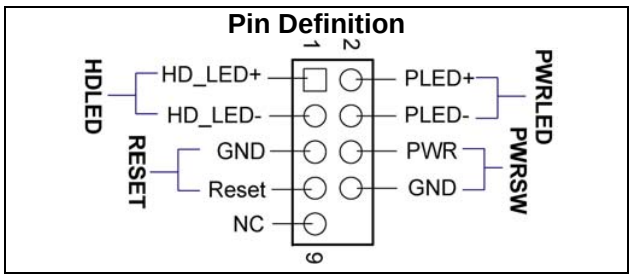
2.1.1 Installing Front IO Board

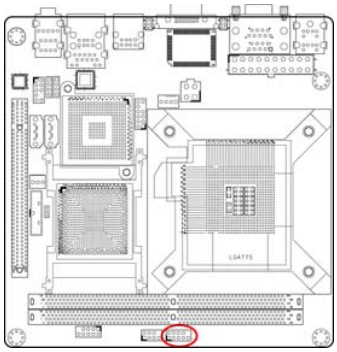
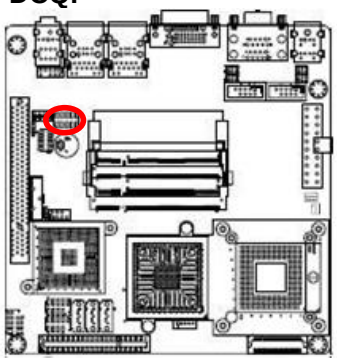
1. Install Front IO cable to Front IO board.. 2. Whit dot indicates pin 1.	 
3. Assemble Front IO Board to front bezel. 4. Fix the board by 4 screws.	
5. Assemble IO bezel as picture shown.	

2.1.2 Installing IO shield and motherboard

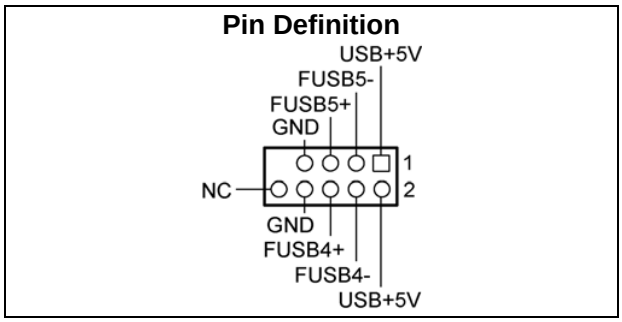
1. Fix cooler bracket to MB(IQ965-CI) bottom side and install cooler from MB top side. 2. For other Advansus MBs(i965GM-DCQI and/or others), cooler can be fixed by 4 screws from MB bottom side. Lower cover can be removed for cooler installation without disassemble MB.	
3. Install IO shield and MB as shown in the picture 4. Please refer to the MB manuals for CPU, Memory modules installation and other detailed MB spec.	
5. Connect Front IO cable to motherboard. Header locations may vary in different MBs..	**Front Panel Header (white dot indicates pin 1)**  **Front USB Header (white dot indicates pin 1)**. 

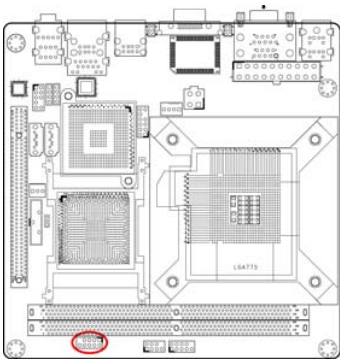
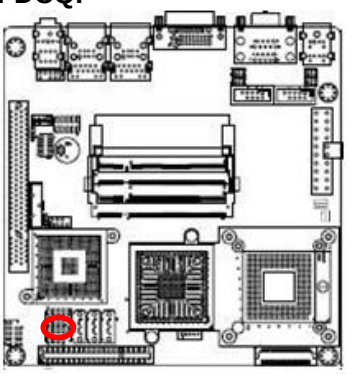
Front Panel Connector (FPANEL1)/ Header locations may vary in different MBs.
This connector supports several chassis-mounted functions.



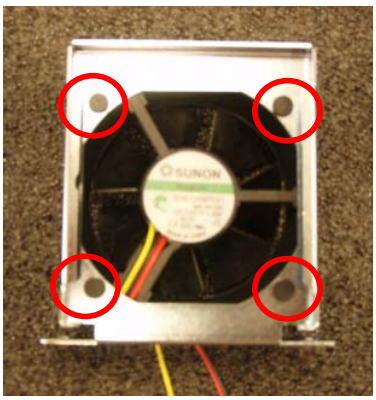
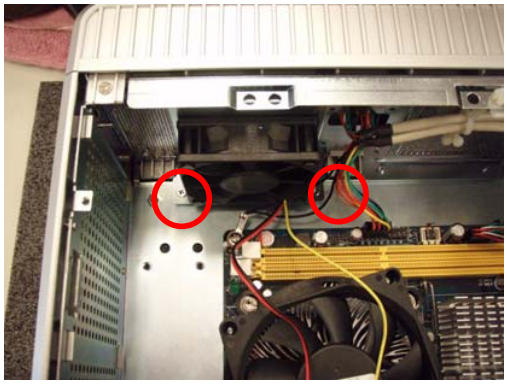
IQ965-CI	I965GM-DCQI
	

USB 2.0 Connector (USBB1)/ Header locations may vary in different MBs.
These connectors are for USB 2.0 ports. Connect the USB/GAME module cable to any of these connectors, then install the module to a slot opening at the back of the system chassis. These USB connectors comply with USB 2.0 specification that supports up to 480 Mbps connection speed.

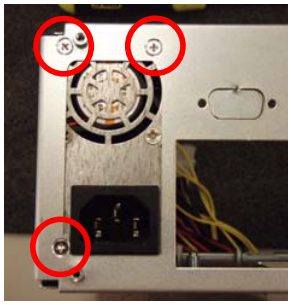


IQ965-CI	I965GM-DCQI
	

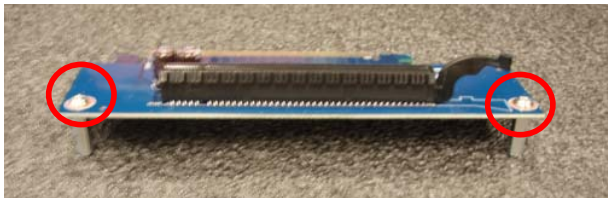
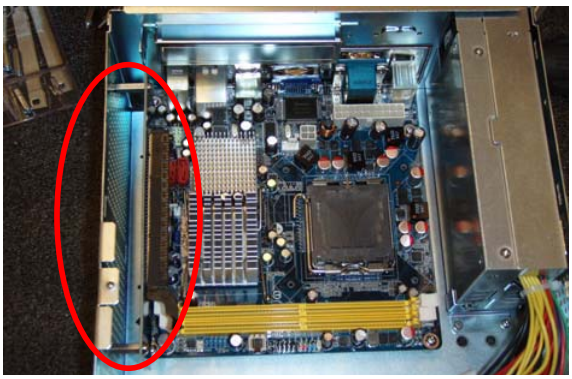
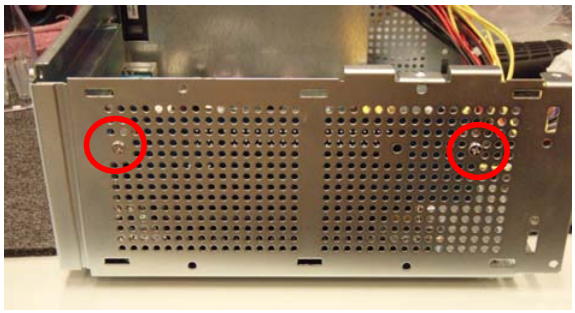
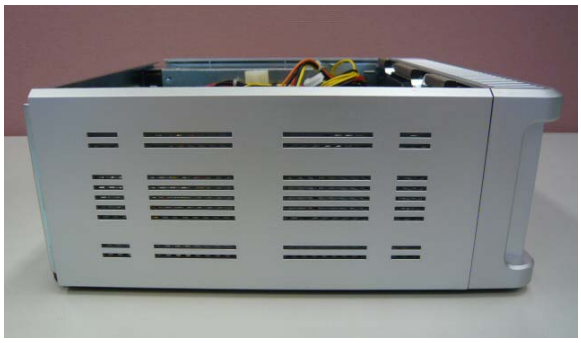
2.1.3 Installing System Fan

6. Fix system fan to fan bracket.	
7. System fan location. 8. Fix system fan and connect fan cable to MB. Fan connector locations may vary in different MBs	

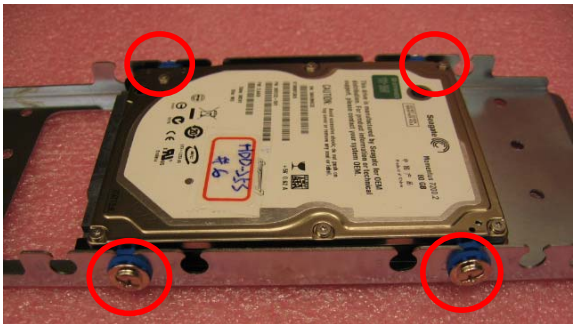
2.1.4 Installing Power Supply Unit

1. Fix PSU to PSU bracket.	
2. Fix PSU to chassis by 5 screws. 3. Connect ATX Power connector to MB. ATX Power connector locations may vary in different MBs	 

2.1.5 Installing PCI/PCI-E Riser Card

1. Fix 2 standoffs to PCI/PCI-E Riser card as picture shown.	
2. Plug in the riser card to MB and assemble card module to system as picture shown.	
3. Fix card module from out side by 2 screws.	
4. Install side bezels as picture shown.	

2.1.6 Installing HDD

1. Fix HDD to HDD bracket.	
2. Connect HDD cable and install HDD module to system as picture shown.	

2.1.7 Installing CF card(Optional)

1. Open lower cover to install CF card(I965GM-DCQI).	

2.1.8 Final Assembly

1. Close the upper case and screw the rear screws.