

# BC77Q

Intel® Socket LGA1155  
3<sup>rd</sup>/2<sup>nd</sup> Generation Core i7/i5/i3 CPU

## ATX Motherboard

### Quick Installation Guide

Version 1.00

<http://www.bcmcom.com>

#### • Inspect the Package:

- One **BC77Q Motherboard**
- Two **SATA Cable**
- Two **COM Port Cable**
- One **I/O Shield**
- One **Driver CD (Manual/Drivers)**
- One **Quick Installation Guide**



BC77Q



SATA Cable



DRIVER CD



I/O Shield

#### • Responsibility:

This manual is provided "As-Is" with no warranties of any kind, it will neither expressed or implied, including, but not limited to the implied warranties or conditions of this product's fitness for any particular purpose. In no event shall we be liable for any loss of profits, loss of business, loss of data, interruption of business, or indirect, special, incidental, or consequential damages of any kind, even the possibility of such damages arising from any defect or error in this manual or product. We reserve the right to modify and update the user manual without prior notice.

#### ⚠ WARNING: CMOS Battery Damage

Replace your system's CMOS RAM battery only with the identical CR-2032 3V Lithium-Ion coin cell (or equivalent) battery type to avoid risk of personal injury or physical damage to your equipment. Always dispose of used batteries according to the manufacturer's instructions, or as required by the local ordinance (where applicable). The damage due to not following this warning will void your motherboard's manufacturer warranty.

Perchlorate Material- Special Handling May Apply.  
See <http://www.dtsc.ca.gov/hazardouswaste/perchlorate/>

#### ⚠ ATTENTION: Incorrect BIOS Setup

If you do not know how to handle BIOS setup or how to set it up properly, it is strongly advisable that you do not modify any of the settings than otherwise instructed in the User's Quick Start Card. Even a seemingly small incorrect adjustment or modification in the BIOS setup can render your system unstable or unusable. The incorrect BIOS setup is not covered by your motherboard's manufacturer warranty.

#### • Additional Information:

Additional information on setting this board up can be found in the User's Manual in the provided CD-ROM. The Online User's Manual and FAQ/Knowledge Base can be found on our website by visiting our website: <http://www.bcmcom.com>. If your question is not answered in our FAQ/Knowledge Base, visit our forums and post your messages or submit a new FAQ through FAQ Submittal form for us to add your question in our FAQ with our answer.

#### ⚠ WARNING: Electrostatic Sensitive Device (ESD)

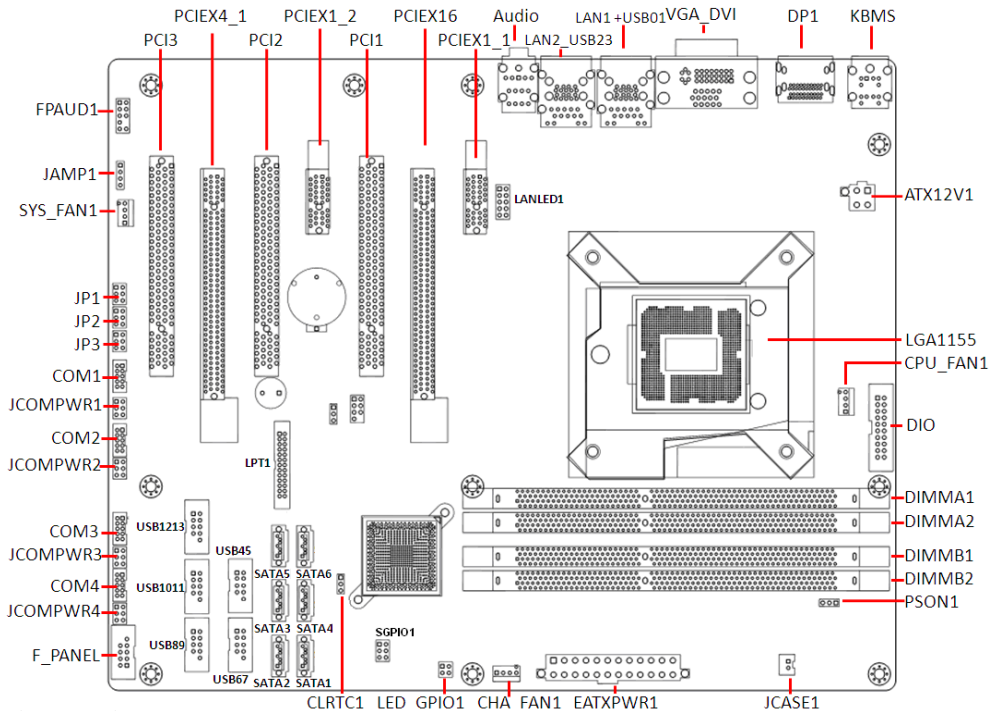
Static electricity can easily damage your motherboard and will void your motherboard warranty. Keep the motherboard and other system components in their anti-static packaging until you are ready to install them. Touch a grounded surface before you remove any system component from its protective anti-static packaging. Unpacking and installation should be done on a grounded, anti-static mat. The operator should be wearing an anti-static wristband, grounded at the same points as the anti-static mat. During configuration and installation touch a grounded surface frequently to discharge any static electrical charge that may have built up in your body. Avoid touching the components when handling the motherboard or a peripheral card. Handle the motherboard and peripheral cards either by the edges or by the peripheral card case-mounting bracket.

#### ⚠ WARNING: Misplaced Jumper Damage

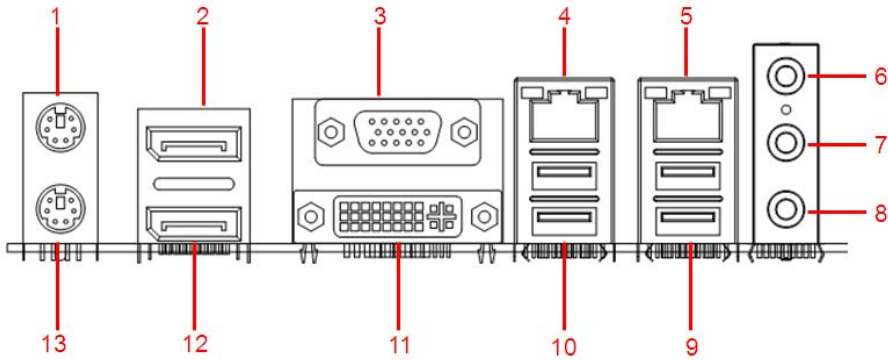
Incorrect setting jumpers and connectors may lead to damage to your motherboard and will void your motherboard warranty. Please pay special attention not to connect these headers in wrong directions. DO NOT change ANY jumpers while the motherboard has the power!

## Motherboard Layout:

### • Board Layout:



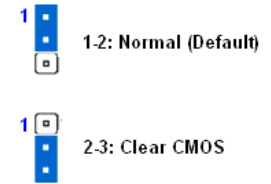
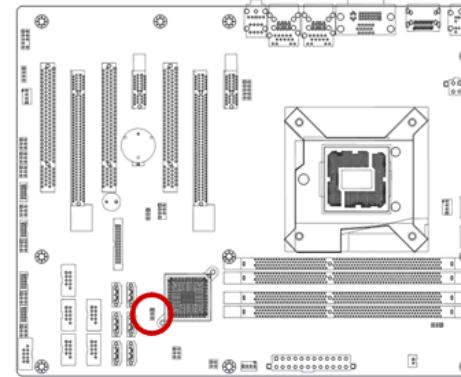
• **Back Panel:**



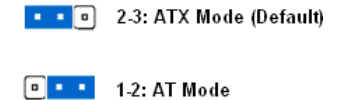
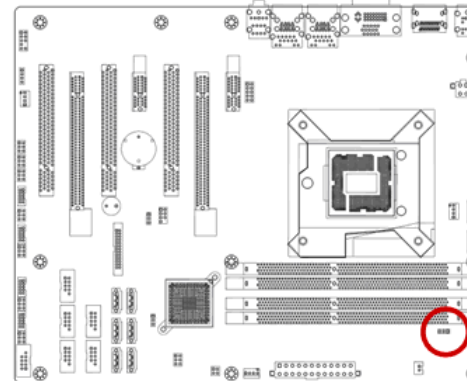
Item	Name	Function	Description																				
1	KBMS	PS/2 Mouse Connector	The port is for a PS/2 mouse.																				
2	DP1	Display Port 2	Provides "displayport" type connection to monitor.																				
3	VGA	VGA Video Port	The VGA15-pin Connector.																				
4/5	LAN1/ LAN2	Gigabit LAN (RJ-45) Connectors	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.																				
		<table border="1"> <thead> <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> </thead> <tbody> <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> </tbody> </table>	ACT/Link LED		Speed LED		Status	Description	Status	Description	OFF	No link	OFF	10Mbps connection	Orange	Linked	Orange	100Mbps connection	Blinking	Data activity	Green	1Gbps connection	
ACT/Link LED		Speed LED																					
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OFF	No link	OFF	10Mbps connection																				
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Blinking	Data activity	Green	1Gbps connection																				
6	AUDIO	Line-in port (Light blue)	This port connects a tape, CD, DVD player, or other audio sources.																				
7	AUDIO	Line-out port (Lime)	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.																				
8	AUDIO	Microphone port (Pink)	This port connects a microphone.																				
9	USB	USB 3.0 Connectors	These two 4-pin Universal Serial Bus (USB) ports are available for connecting USB 3.0/ 2.0 devices.																				
10	USB	USB 3.0 Connectors	These two 4-pin Universal Serial Bus (USB) ports are available for connecting USB 3.0/ 2.0 devices.																				
11	DVI	DVI Video Port	DVI-D 24-Pin Connector.																				
12	DP1	Display Port 1	Provides "displayport" type connection to monitor.																				
13	KBMS	PS/2 Keyboard Connector	This port is for a PS/2 keyboard.																				

**Connectors, Jumpers, & Headers:**

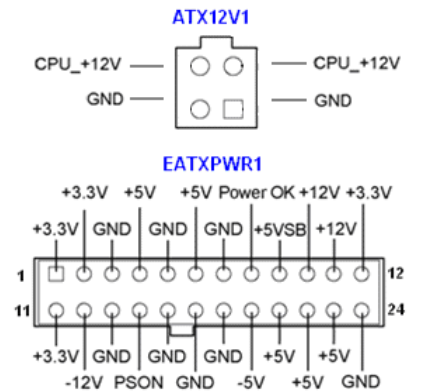
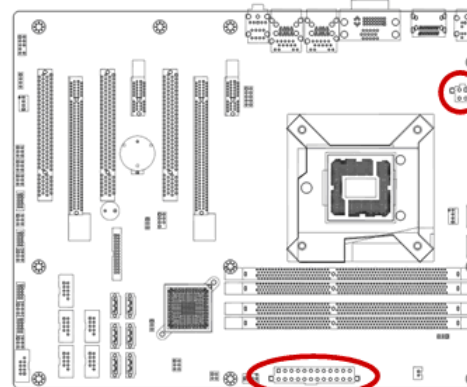
• **Clear CMOS Jumper: CLRTC1**



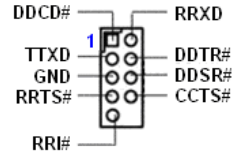
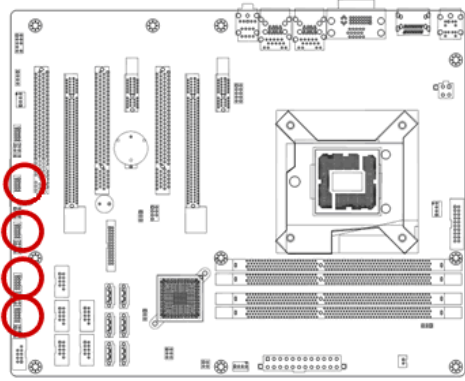
• **ATX/AT Mode Selection: PSON1**



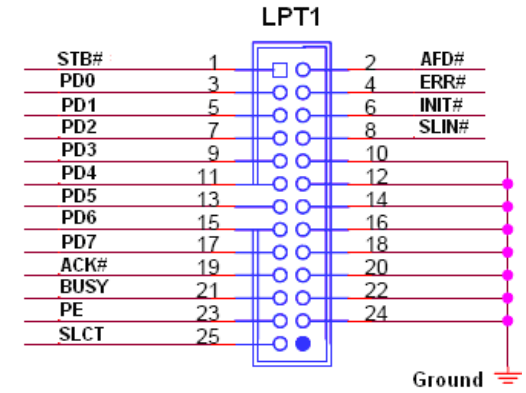
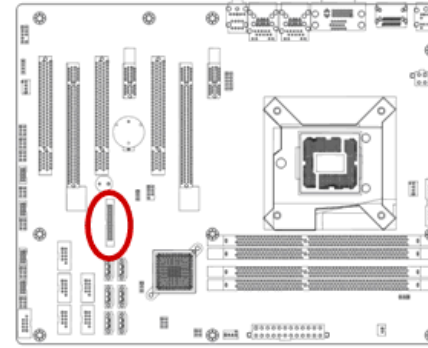
• **ATX Power Connectors: EATXPWR1 (24-Pin), ATX12V1 (4-pin)**



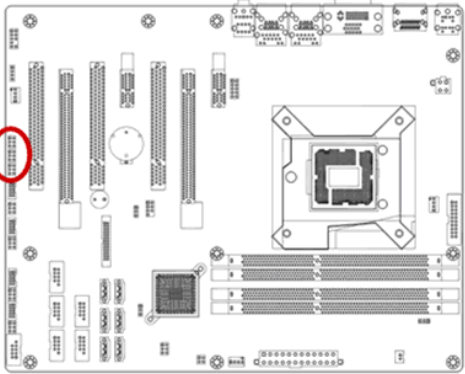
• Serial Port Connectors: COM1, COM2, COM3, COM4



• LPT Port Connector: LPT1

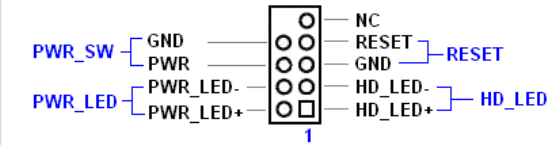
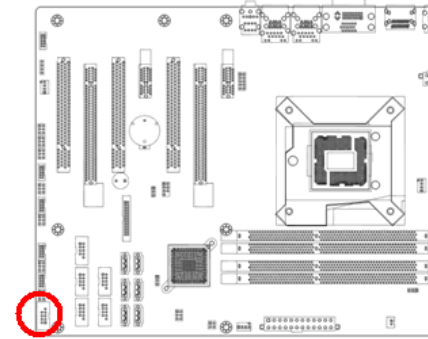


• COM1 RS232/ RS422/ RS485 Select: JP1, JP2, JP3

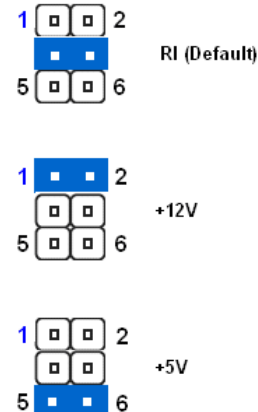
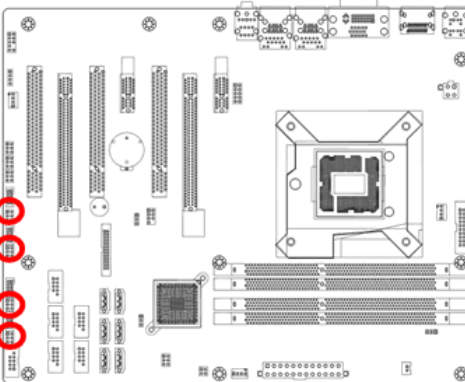


COM1 RS232/ RS422/ RS485 Settings				
Function	JP1	JP2	JP3	
RS232 (Default)	1-3	1-2	1-3	
	2-4		2-4	
RS422	3-5	3-4	3-5	
	4-6		4-6	
RS485	3-5	5-6	3-5	
	4-6		4-6	

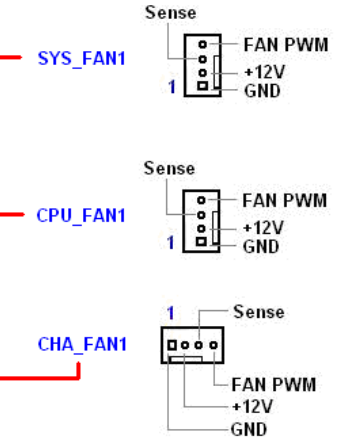
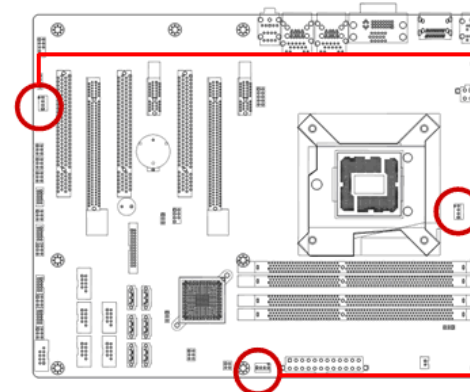
• Front Panel Connector: F\_PANEL



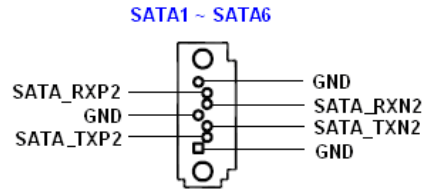
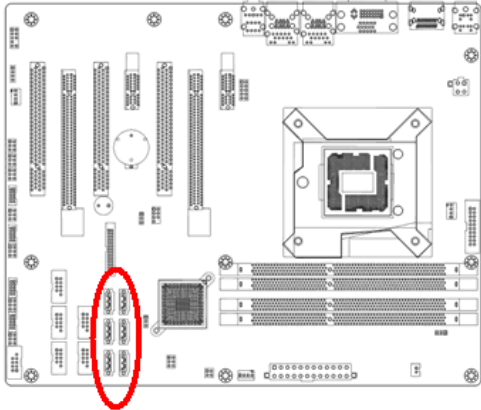
• COM1, COM2, COM3, COM4 Ring-In/ +12V/ +5V Select: JCOMPWR1, JCOMPWR2, JCOMPWR3, JCOMPWR4



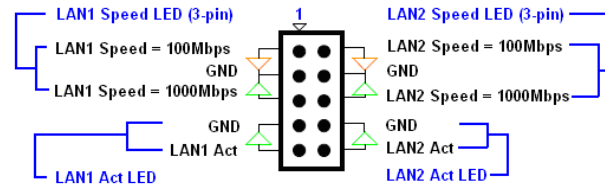
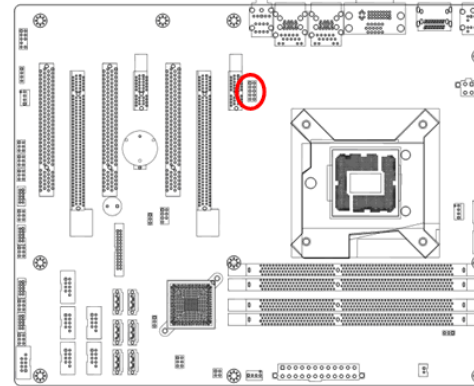
• Fan Connectors: CPU\_FAN1, CHA\_FAN1, SYS\_FAN1



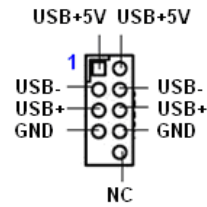
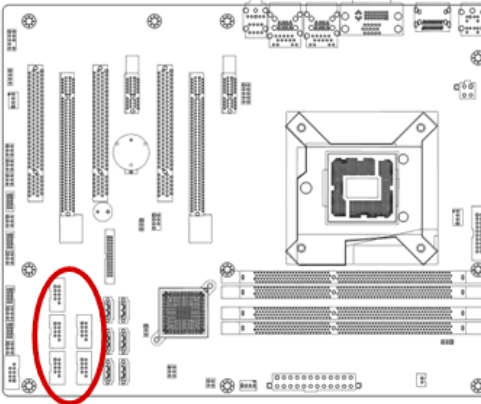
- **SATA Ports: SATA3.0: SATA1, SATA2;**  
**SATA2.0: SATA3, SATA4, SATA5, SATA6**



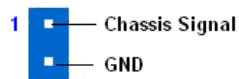
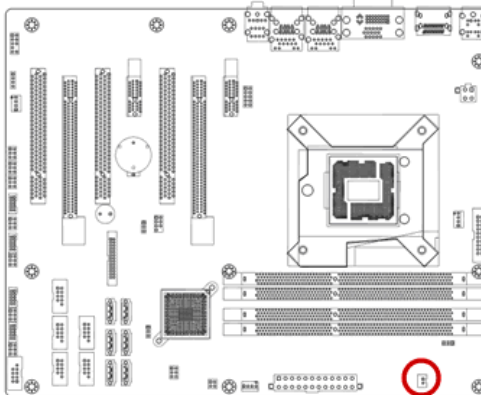
- **LAN LED Header: LANLED1**



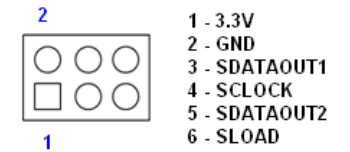
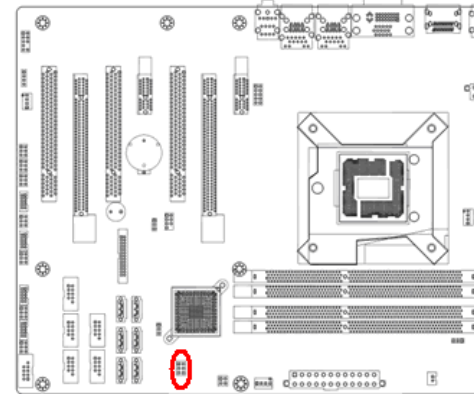
- **Front USB Headers: USB45, USB67, USB89, USB1011, USB1213**



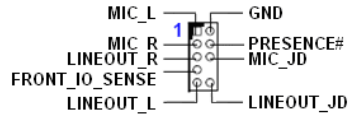
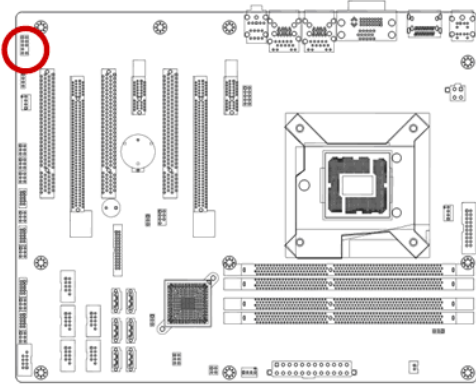
- **Chassis Intrusion Connector: JCASE1**



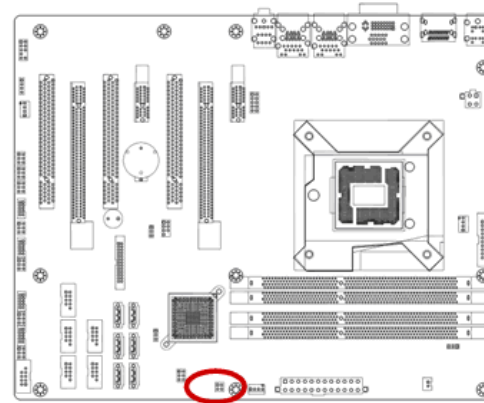
- **RAID LED Header: SGPIO1**



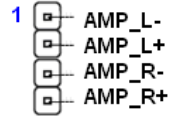
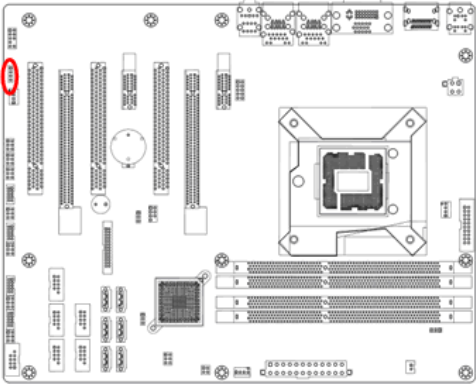
• Front Panel Audio Connector: FPAUD1



• PC OK Connector : LED\_GPIO1 (Reserved for factory use only)



• Amplifier Connector: JAMP1

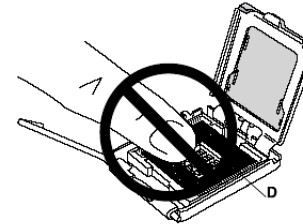


• Save the Processor Socket Cover

After removing the processor cover during processor installation, please save the processor socket cover. In the event that the desktop board needs to be returned for service or any time the processor is removed, the cover should be replaced on the processor socket.



• Do not Touch Socket Contact



• Digital I/O Connector: DIO

