

BC246C

Intel® C246 ATX Motherboard supports LGA1151 Coffee Lake/Coffee Lake Refresh Core and Xeon CPU

ATX Motherboard

User's Quick Start Card

Version 1.0

<http://www.bcmcom.com>

• Inspect the Package:

One **BC246C Motherboard**

One **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)

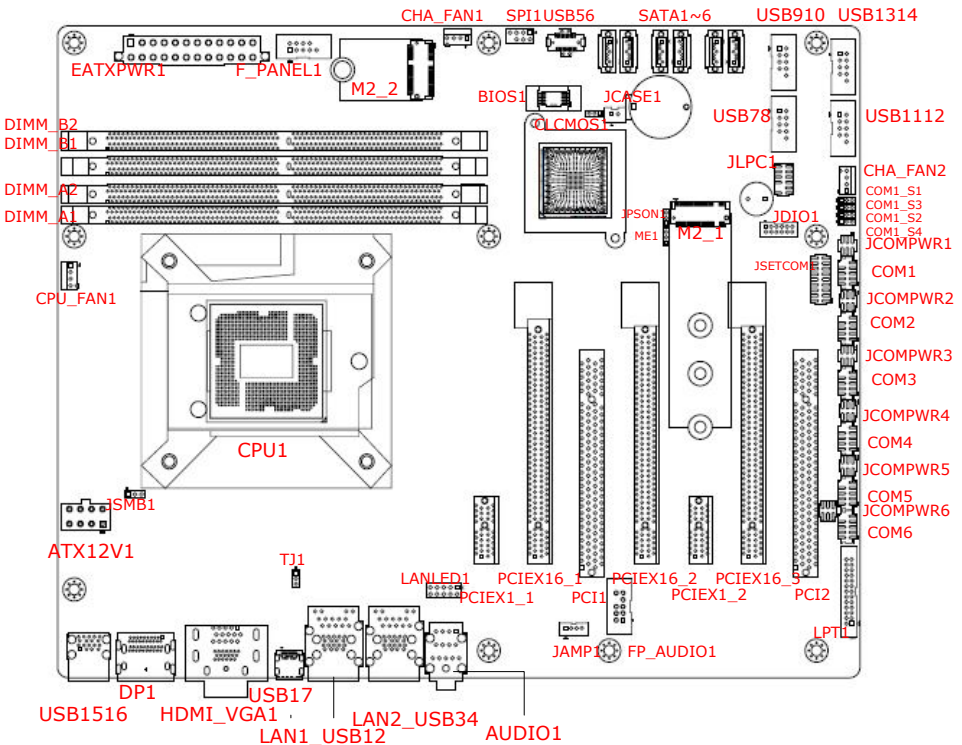
Static electricity can easily damage your motherboard and will void your motherboard warranty. Keep the motherboard and other system components in their anti-static packaging until you are ready to install them. Touch a grounded surface before you remove any system component from its protective anti-static 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

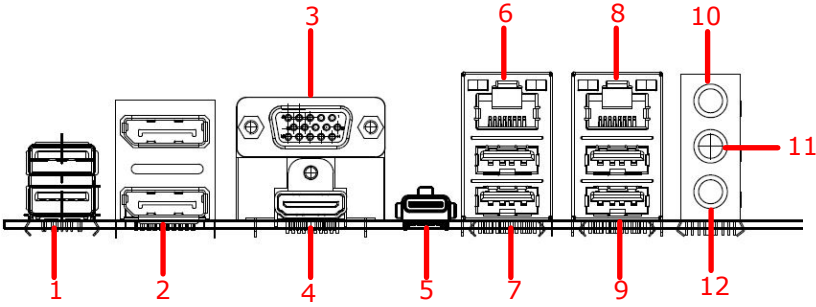
Incorrect setting jumpers and connectors may lead to damage to your motherboard and will void your motherboard warranty. Please pay special attention not to connect these headers in wrong directions. **DO NOT** change ANY jumpers while the motherboard has the power!



Motherboard Layout:

• Board Layout:



• Back Panel:

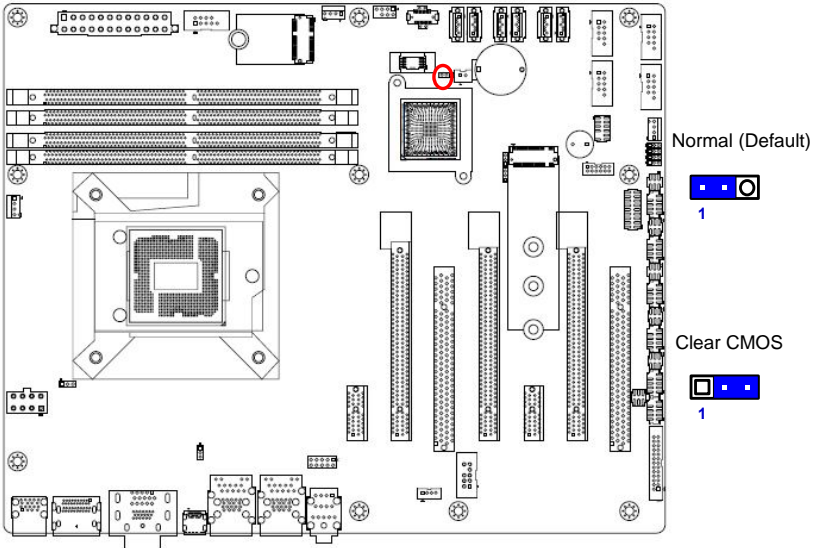


Item	Name	Function	Description																				
1	USB1516	USB 3.1 Gen2 Port	These two Universal Serial Bus (USB) ports are available for connecting USB 3.1 devices.																				
2	DP1	Display Port	These two display port Connectors are available for connecting display port devices.																				
3	VGA	VGA Port	The VGA port Connector																				
4	HDMI	HDMI Port	The HDMI port Connector																				
5	USB17	USB 3.1 Gen2 port	This is USB 3.1 Gen2 Type-C connector																				
6	LAN1	Gigabit LAN (RJ-45) Connectors  LAN port	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" data-bbox="535 935 1016 1154"> <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>Green</td> <td>100Mbps connection</td> </tr> <tr> <td>Blinking</td> <td>Data activity</td> <td>Orange</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	Green	100Mbps connection	Blinking	Data activity	Orange	1Gbps connection
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Orange	Linked	Green	100Mbps connection																				
Blinking	Data activity	Orange	1Gbps connection																				
7	USB12	USB 3.1 Connectors	These two 4-pin Universal Serial Bus (USB) ports are available for connecting USB 3.1 devices.																				
8	LAN2.	Gigabit LAN (RJ-45) Connectors  LAN port	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" data-bbox="535 1343 1016 1562"> <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>Green</td> <td>100Mbps connection</td> </tr> <tr> <td>Blinking</td> <td>Data activity</td> <td>Orange</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	Green	100Mbps connection	Blinking	Data activity	Orange	1Gbps connection
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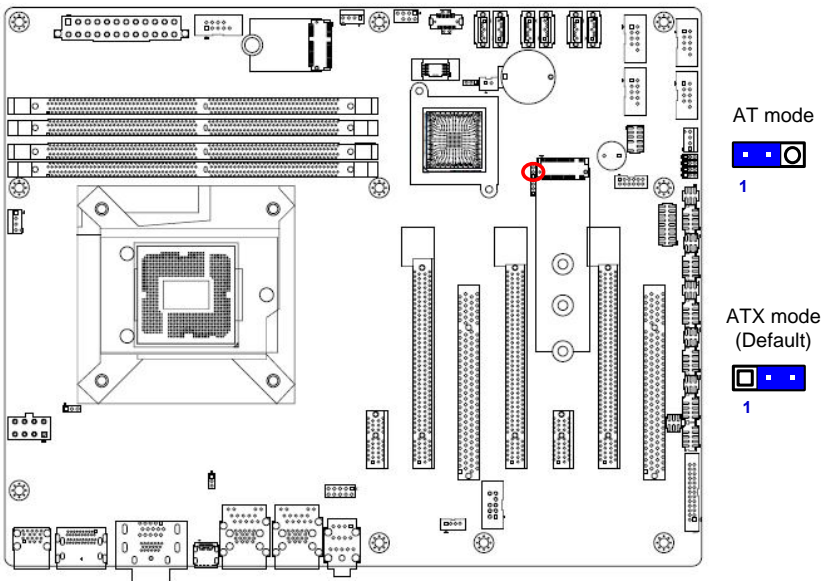
9	USB34	USB 3.0 Connectors	These two 4-pin Universal Serial Bus (USB) ports are available for connecting USB 3.1 devices.
10	AUDIO1	Line-in port (Light blue)	This port connects a tape, CD, DVD player, or other audio sources.
11	AUDIO1	Line-out port (Lime)	This port connects a headphone or a speaker. In 4-channel, 6-channel, and 8-channel configuration, the function of this port becomes <u>Front Speaker Out</u> .
12	AUDIO1	Microphone port (Pink)	This port connects a microphone.

Jumpers, Connectors, & Headers:

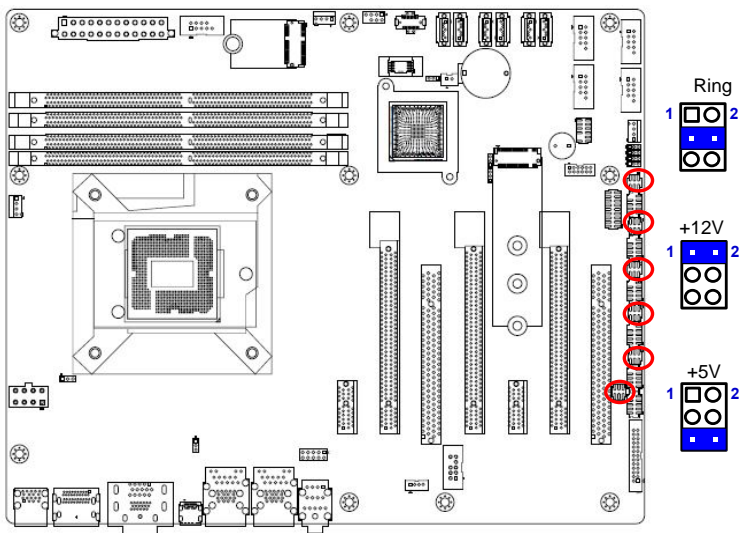
• Clear CMOS Jumper: CLCMOS1



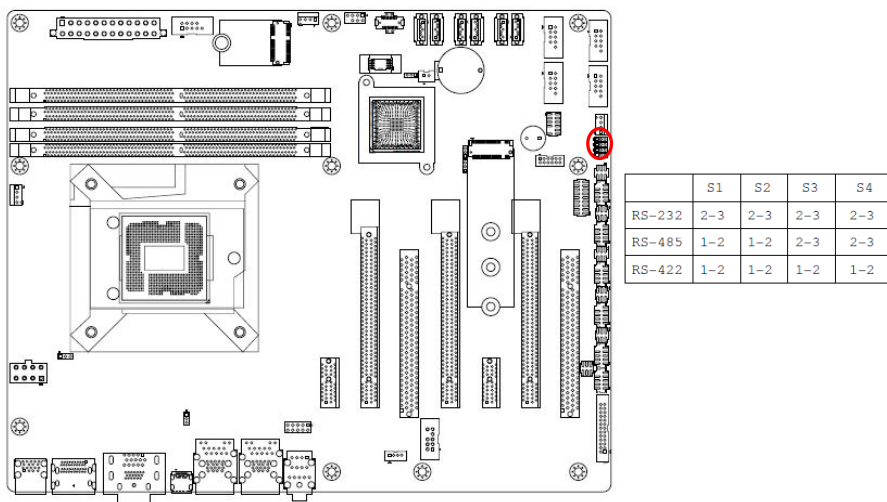
• ATX/AT Mode Selection: JPSON1



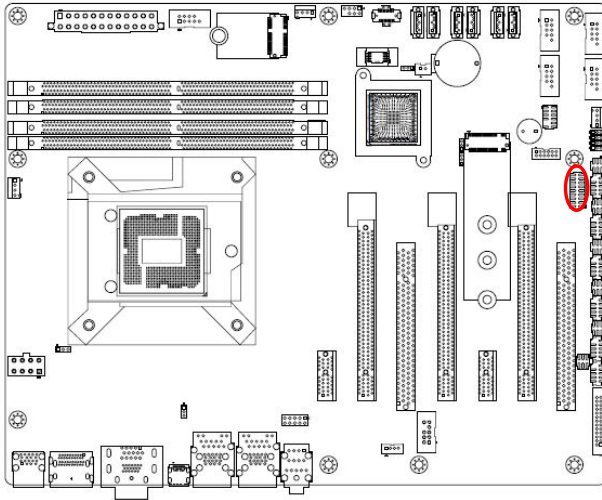
• COM POWER SETTING (JCOMPWR1~6)



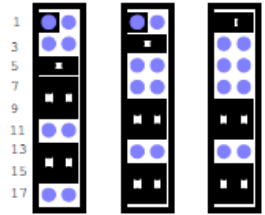
•COM1 Master/Slave terminal Setting (COM1_S1~4)



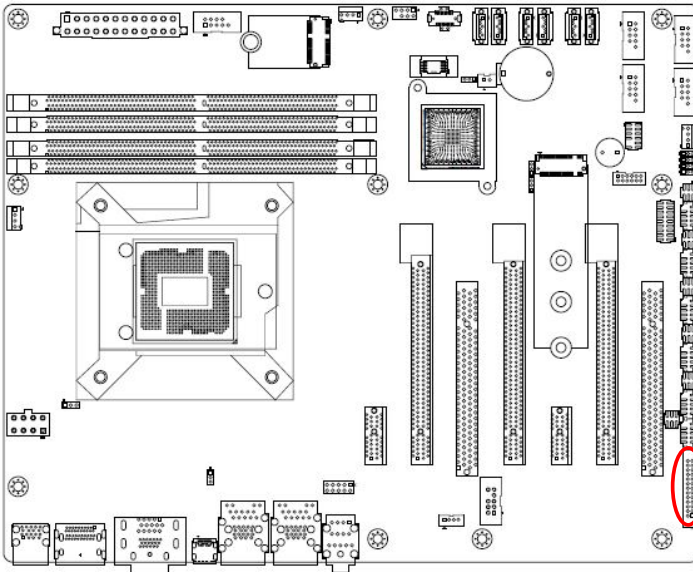
•COM1 type Setting (JSETCOM1)



RS232 RS422 RS485

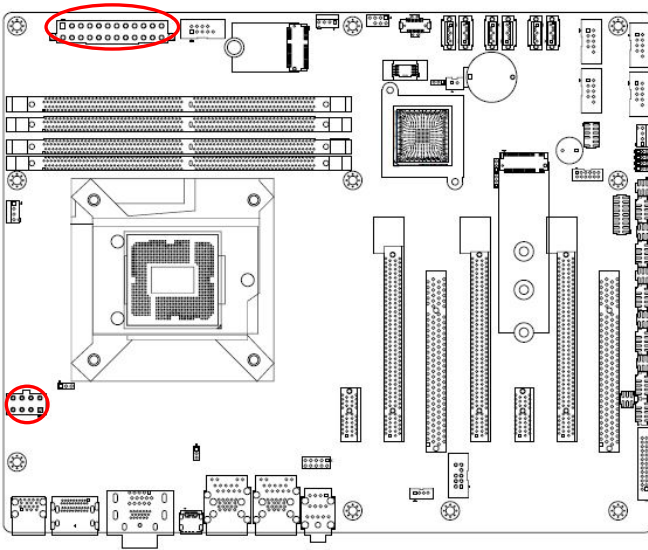


•LPT Port Connector (LPT1)

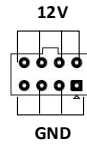


- | | |
|--------------|--------------|
| 1. LPT_STB# | 2. LPT_AFD# |
| 3. LPT_PD0 | 4. LPT_ERR# |
| 5. LPT_PD1 | 6. LPT_INIT# |
| 7. LPT_PD2 | 8. LPT_SLIN# |
| 9. LPT_PD3 | 10. GND |
| 11. LPT_PD4 | 12. GND |
| 13. LPT_PD5 | 14. GND |
| 15. LPT_PD6 | 16. GND |
| 17. LPT_PD7 | 18. GND |
| 19. LPT_ACK# | 20. GND |
| 21. LPT_BUSY | 22. GND |
| 23. LPT_PE | 24. GND |
| 25. LPT_SLCT | 26. NC |

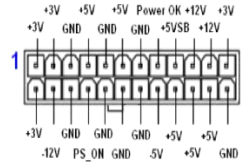
• ATX Power Connectors: EATXPWR1 & ATX12V1



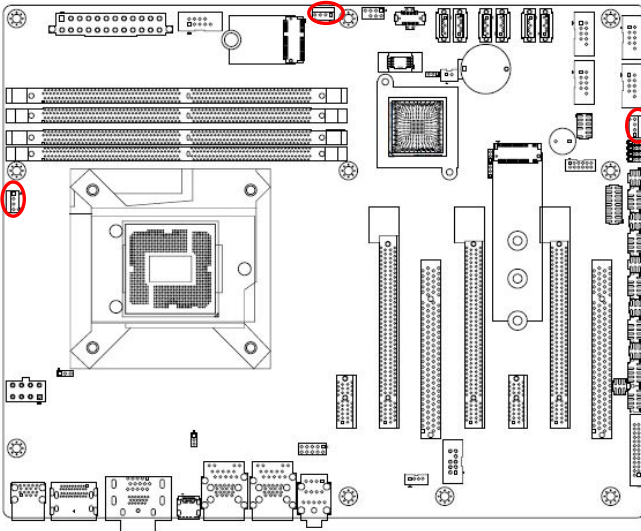
ATX12V1



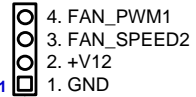
EATXPWR1



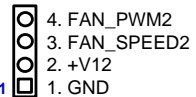
Fan Connectors: CPU_FAN1, CHA_FAN1, CHA_FAN2



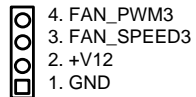
CPU_FAN1



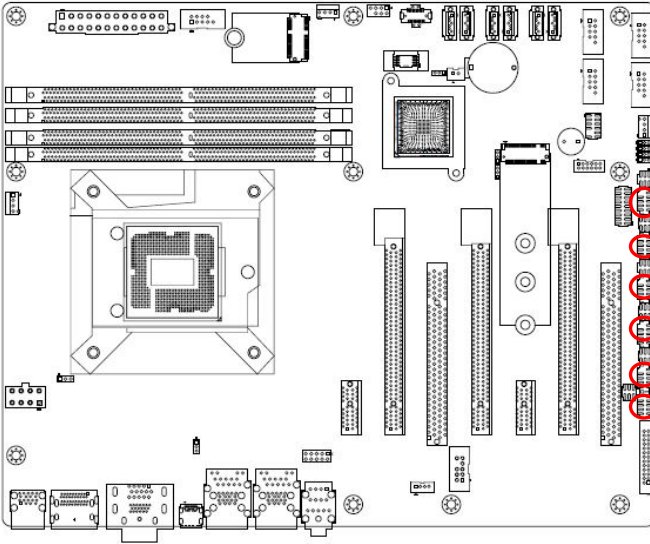
CHA_FAN1



CHA_FAN2

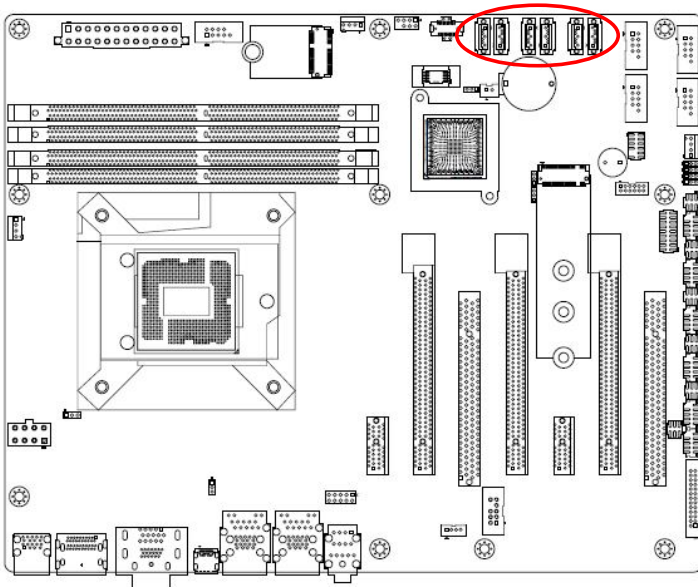


• Serial Port Connectors: COM1~6



- | | |
|------------------|---------|
| 1. DCD# | 2. RX |
| 3. TX | 4. DTR# |
| 5. GND | 6. DSR# |
| 7. RTS# | 8. CTS# |
| 9. RI3xPOWERxJMP | |

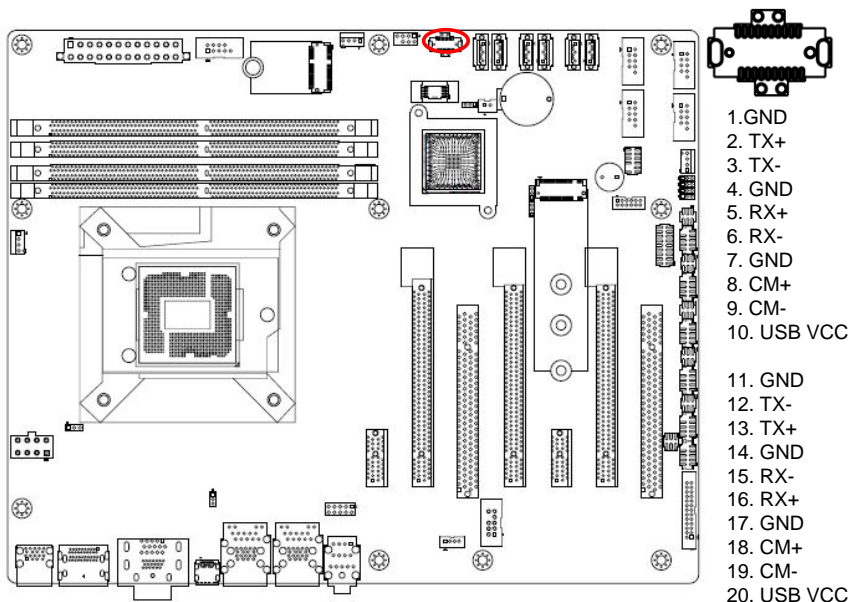
• SATA 3.0 Ports: SATA1~6



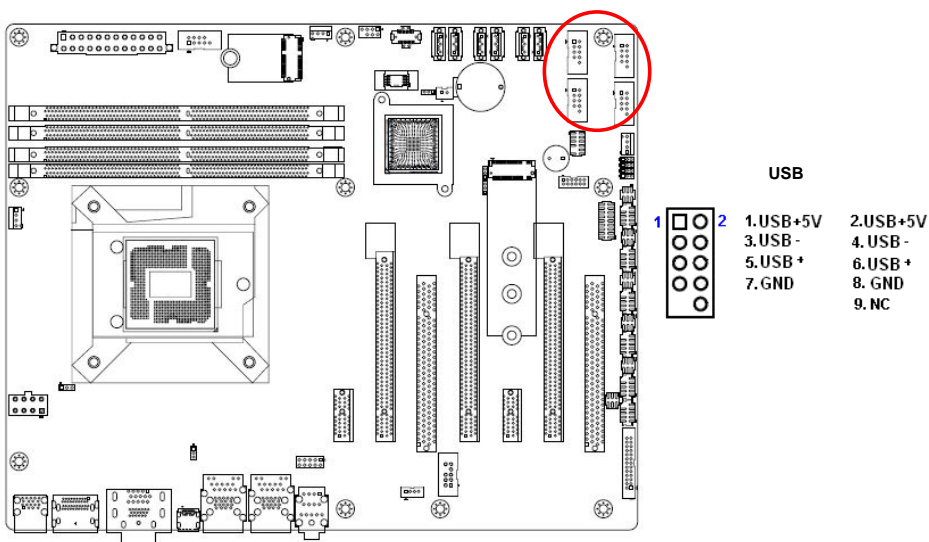
SATA

- | |
|--------|
| 1. GND |
| 2. TX+ |
| 3. TX- |
| 4. GND |
| 5. RX- |
| 6. RX+ |
| 7. GND |

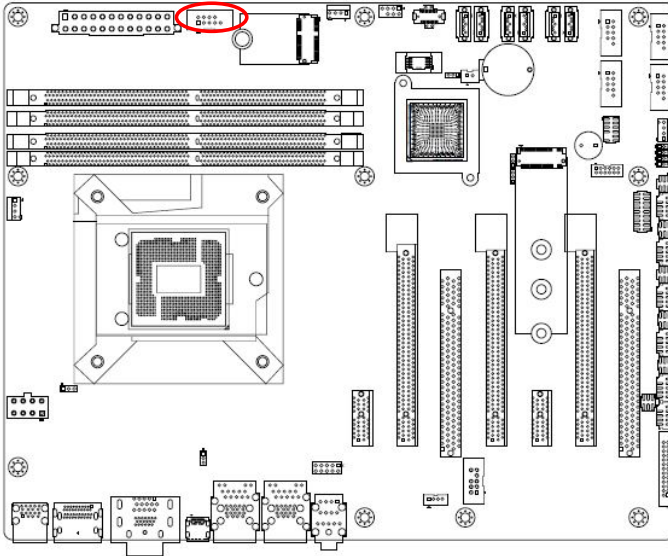
• Front USB 3.1 Headers: USB56



• Front USB 2.0 Headers: USB78, USB910, USB1112, USB1314

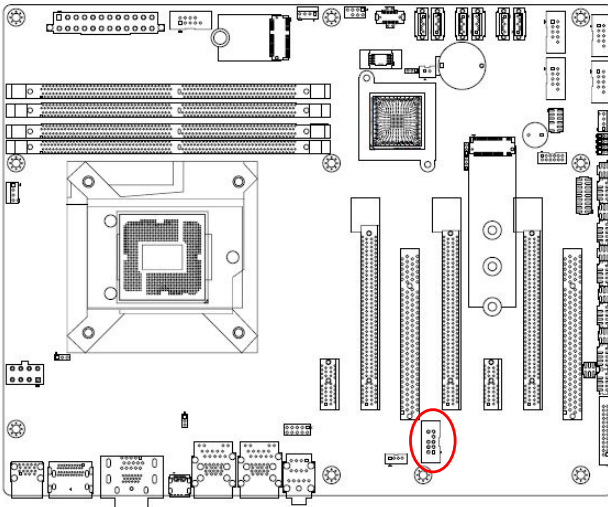


• Front Panel Connector: F_PANEL1



- 1. HDD LED+ 2. +5VSB
- 3. HDD LED# 4. PWR LED#
- 5. GND 6. PANSWIN#
- 7. RST 8. GND
- 9. N/A

• Front Panel Audio Connector: FP_AUDIO1

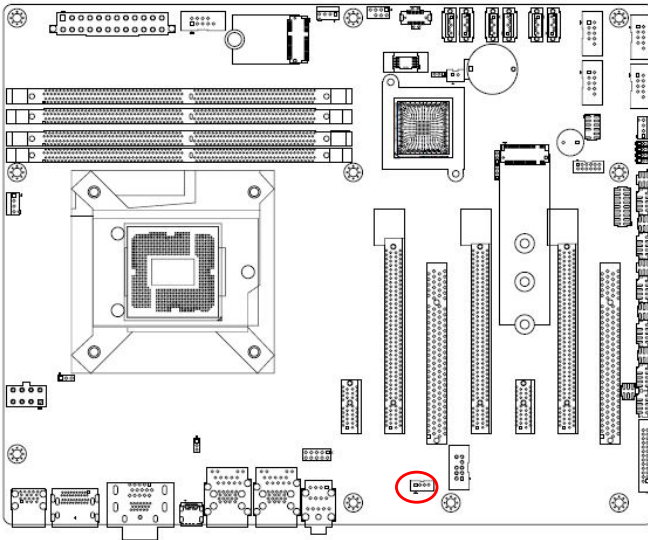


FP_AUDIO1



- 10. LINE2-JD 9. LINE2L
- 8. NC 7. SENSEB
- 6. MIC2-JD 5. LINE2R
- 4. +3.3 3. MIC2R
- 2. GND 1. MIC2L

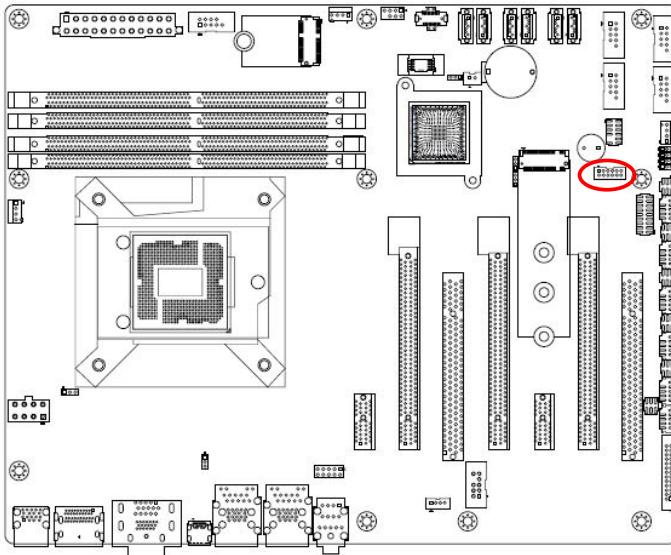
• Amplifier Connector: JAMP1



JAMP1

- | | | |
|---|--|-----------|
| 1 | | 1. AMP_L- |
| | | 2. AMP_L+ |
| | | 3. AMP_R- |
| | | 4. AMP_R+ |

• Digital I/O Connector: JDIO1

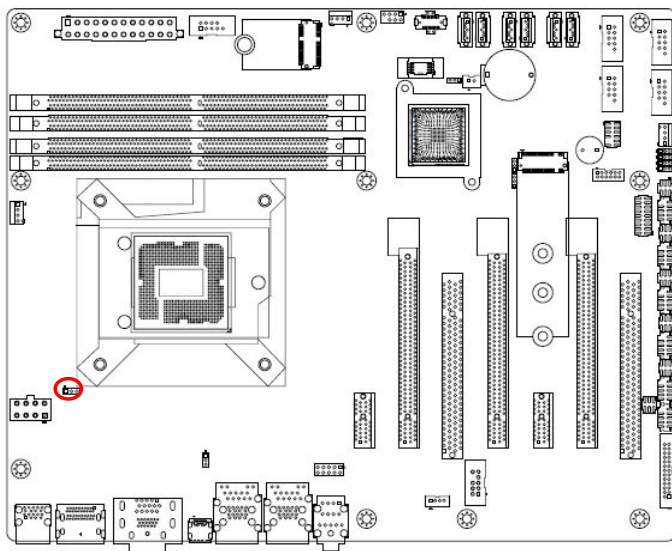


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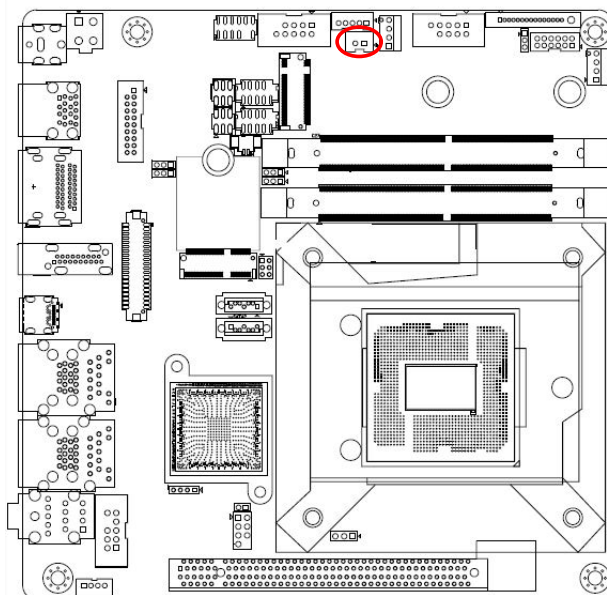
- | | |
|--------------|---------------|
| 1. SIO_GPIO0 | 2. SIO_GPIO4 |
| 3. SIO_GPIO1 | 4. SIO_GPIO5 |
| 5. SIO_GPIO2 | 6. SIO_GPIO6 |
| 7. SIO_GPIO3 | 8. SIO_GPIO7 |
| 9. SMB_CLK_ | 10. SMB_DATA_ |
| RESUME | RESUME |
| 11. GND | 12. +5Vsb |

•SM bus connector (JSMB1)



1. SMBCLK
2. SMBDATA
3. GND

•Chassis Intrusion Connector: JCASE1



1. SIO_CASEOPEN#
2. GND