

MX370QD

Intel® Q370 mini-ITX Motherboard supports LGA1151 Coffee Lake CPU

Mini ITX Motherboard

User's Quick Start Card

Version 0.1

<http://www.bcmcom.com>

• Inspect the Package:

- One **MX370QD Motherboard**
- One **SATA power Cable**
- One **DC-In Power Cable**
- 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)

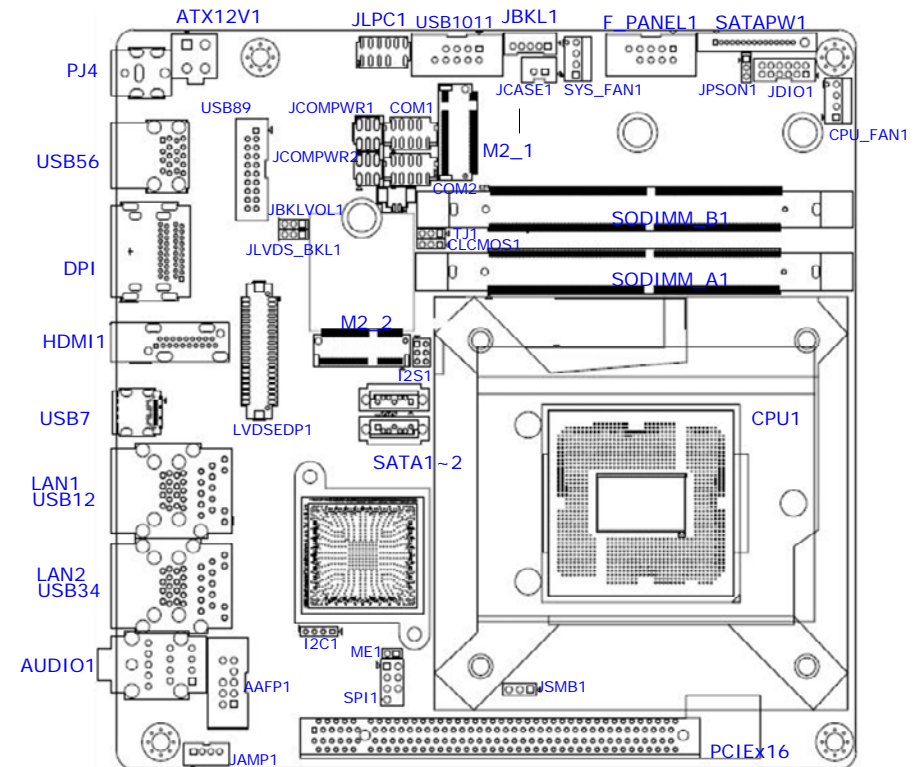
Static electricity can easily damage your motherboard and will void your motherboard warranty. Keep the motherboard and other system components in their anti-static packaging until you are ready to install them. Touch a grounded surface before you remove any system component from its protective anti-static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

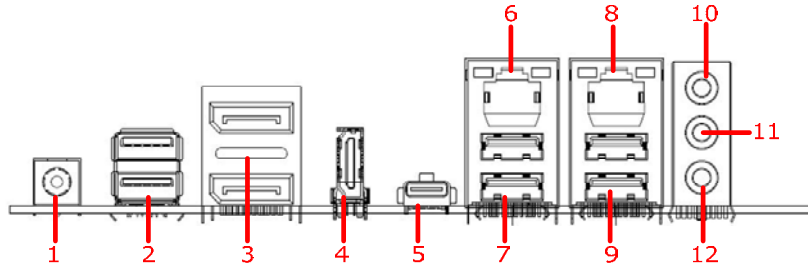
Incorrect setting jumpers and connectors may lead to damage to your motherboard and will void your motherboard warranty. Please pay special attention not to connect these headers in wrong directions. DO NOT change ANY jumpers while the motherboard has the power!

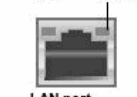
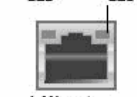
Motherboard Layout:

• Board Layout:



• Back Panel:

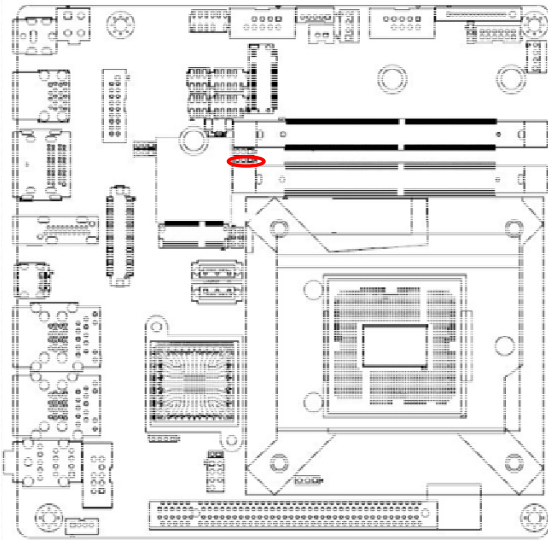


Item	Name	Function	Description																				
1	PJ4	DC-in connector	The connector is for DC-in (12-24V)																				
2	USB56	USB 3.1 port	These two Universal Serial Bus (USB) ports are available for connecting USB 3.1 devices.																				
3	DP1	Display Port	The display port Connector																				
4	HDMI1	HDMI port	This HDMI port connector																				
5	USB7	USB 3.1 type C port	These one Universal Serial Bus (USB) ports are available for connecting USB 3.1 devices.																				
6	LAN1	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.																				
		 <p>LAN port</p>	<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>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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Status	Description	Status	Description																				
OFF	No link	OFF	10Mbps connection																				
Orange	Linked	Green	100Mbps connection																				
Blinking	Data activity	Orange	1Gbps connection																				
7	USB12	USB 3.1 Connectors	These two Universal Serial Bus (USB) ports are available for connecting USB 3.1 devices.																				
8	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.																				
		 <p>LAN port</p>	<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>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 3.1 Connectors	These two 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 Front Speaker Out.
12	AUDIO1	Microphone port (Pink)	This port connects a microphone.

Jumpers, Connectors, & Headers:

- Clear CMOS Jumper: CLCMOS1



Normal (Default)



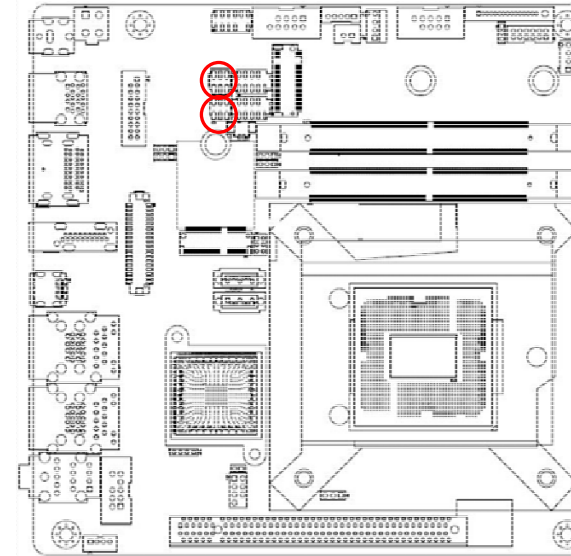
1

Clear CMOS



1

- COM1&2 Ring-In/ +12V/ +5V Select: JCOMPWR1, JCOMPWR2



Ring (Default)



1

2



1

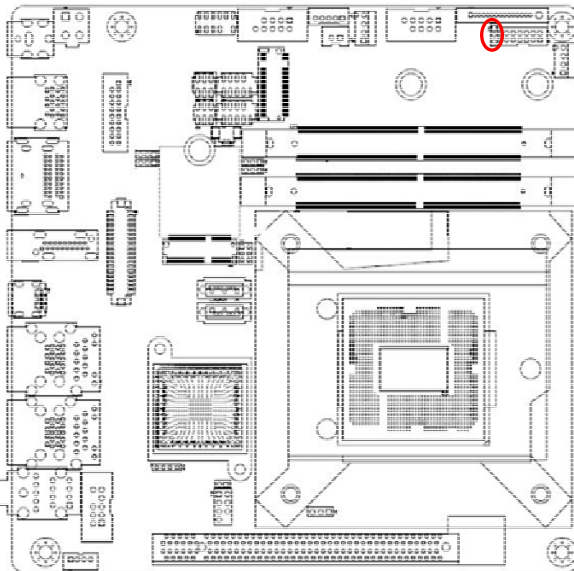
2



1

2

- ATX/AT Mode Selection: JPSON1



AT mode



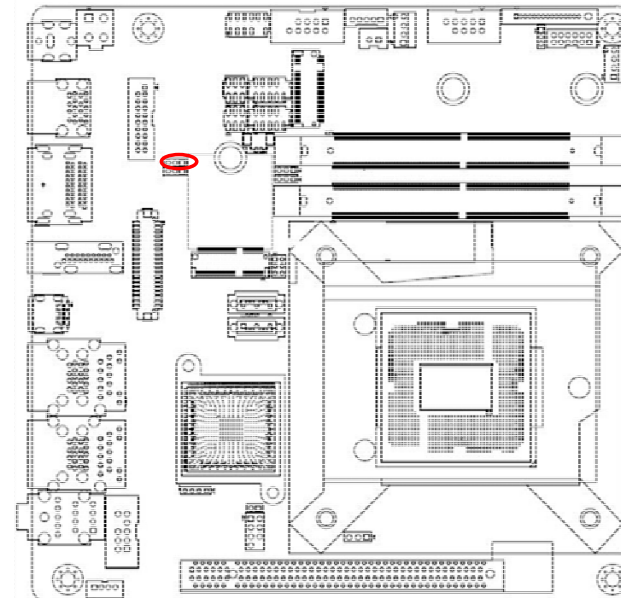
1

ATX mode
(Default)



1

- LVDS panel voltage Selection: JBKLVOL1



+5V



1

2

+3V

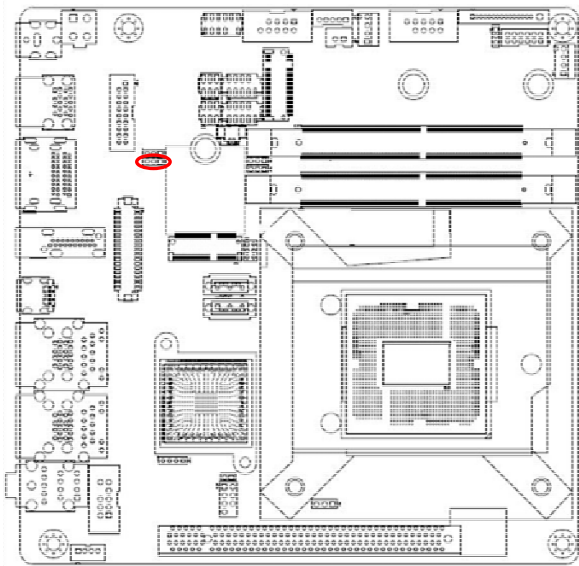


1

2

• ATX Power Connectors: ATX12V1 (4-pin)

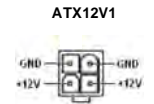
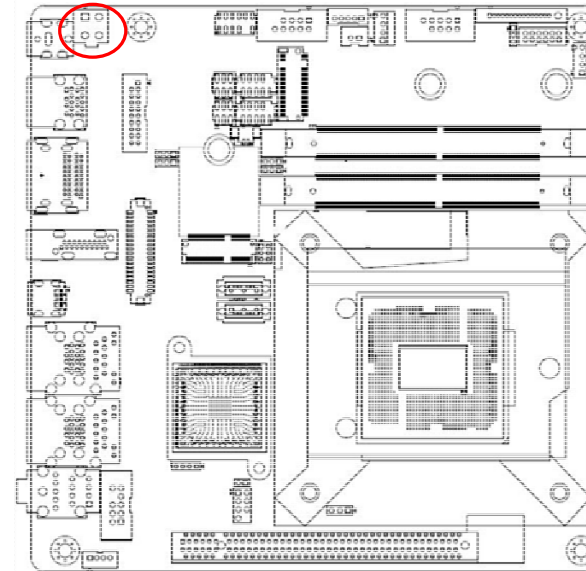
• LVDS brightness control mode Selection: JLVD5_BKL1



PWM mode

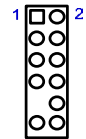
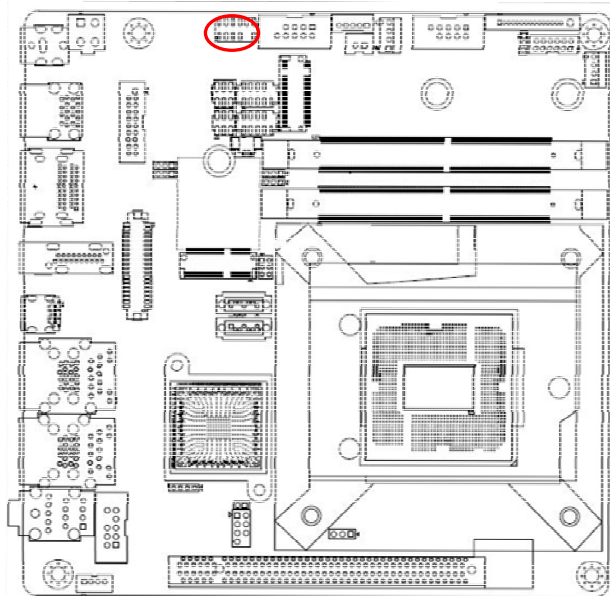


DC mode

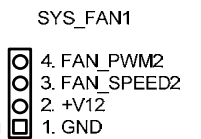
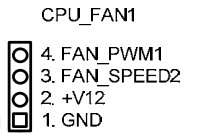
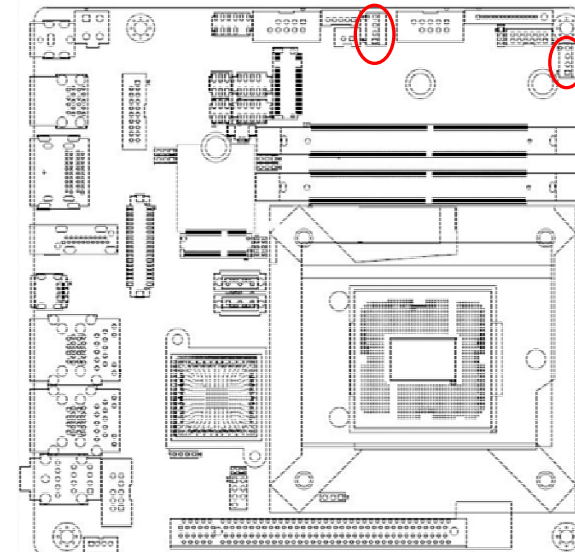


Fan Connectors: CPU_FAN1, SYS_FAN1

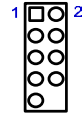
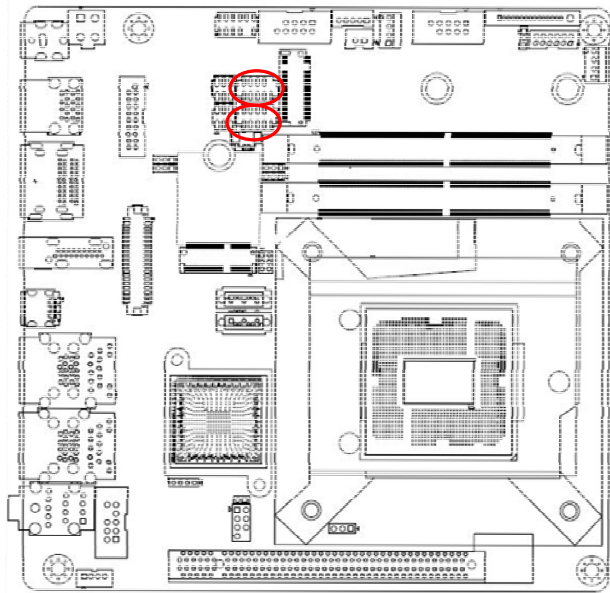
• LPC Connectors: JLPC1



- 1. NC
- 2. +3.3V
- 3. LPC_AD3
- 4. PLTRST_LPC#
- 5. LPC_AD1
- 6. LPC_AD2
- 7. LPC_FRAME#
- 8. LPC_AD0
- 9. GND
- 10. GND
- 11. CK_24M_LPC
- 12. GND

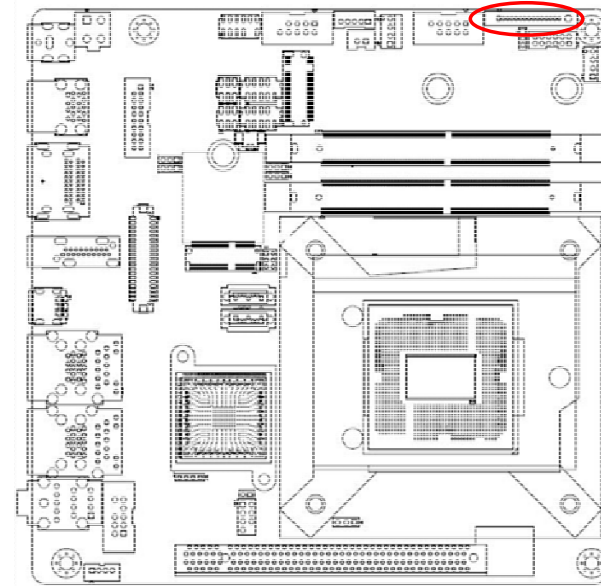


• Serial Port Connectors: COM1, COM2



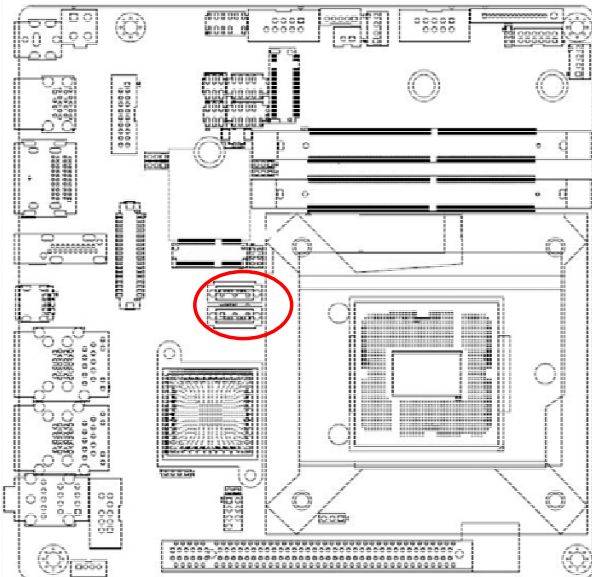
- | | |
|------------------|---------|
| 1. DCD# | 2. RX |
| 3. TX | 4. DTR# |
| 5. GND | 6. DSR# |
| 7. RTS# | 8. CTS# |
| 9. RI3xPOWERxJMP | |

SATA power connectors: SATAPW1



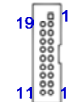
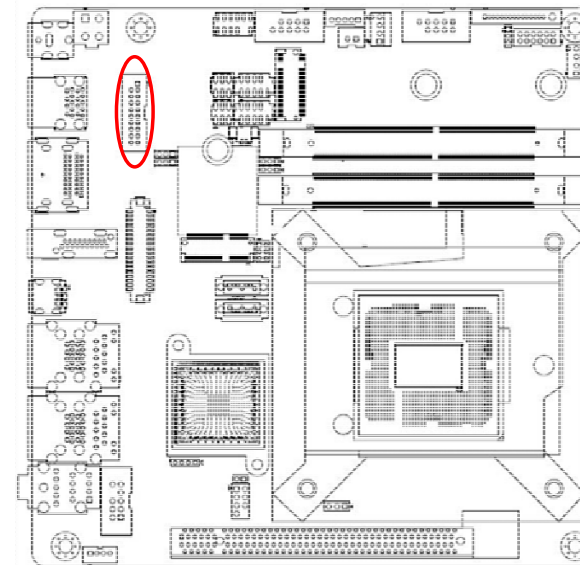
1. +3.3V
2. +3.3V
3. +3.3V
4. GND
5. GND
6. GND
7. +5V
8. +5V
9. +5V
10. GND
11. GND
12. GND
13. +12V
14. +12V
15. +12V

• SATA 3.0 Ports: SATA1, SATA2



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

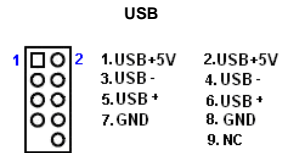
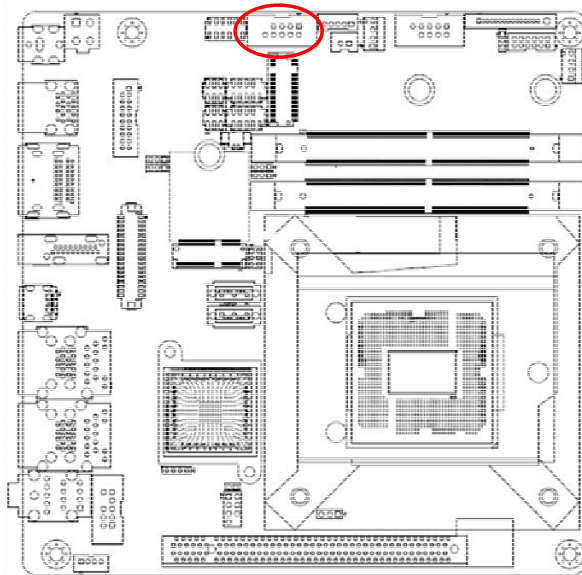
• Front USB 3.0 Headers: USB89



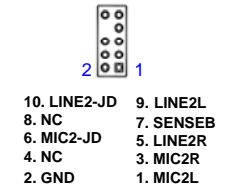
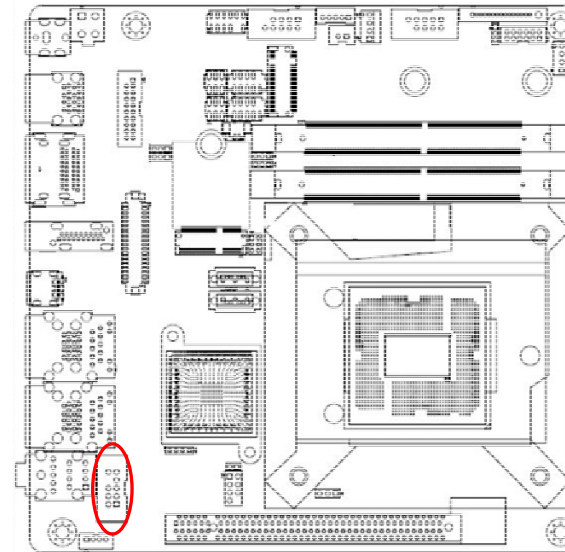
USB56

- | | |
|--------------|-------------|
| 19. +5V | 1. +5V |
| 18. USB3_RX- | 2. USB3_RX- |
| 17. USB3_RX+ | 3. USB3_RX+ |
| 16. GND | 4. GND |
| 15. USB3_TX- | 5. USB3_TX- |
| 14. USB3_TX+ | 6. USB3_TX+ |
| 13. GND | 7. GND |
| 12. USB- | 8. USB- |
| 11. USB+ | 9. USB+ |
| | 10. NC |

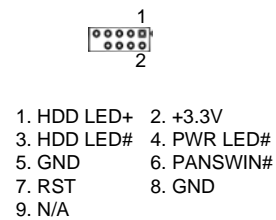
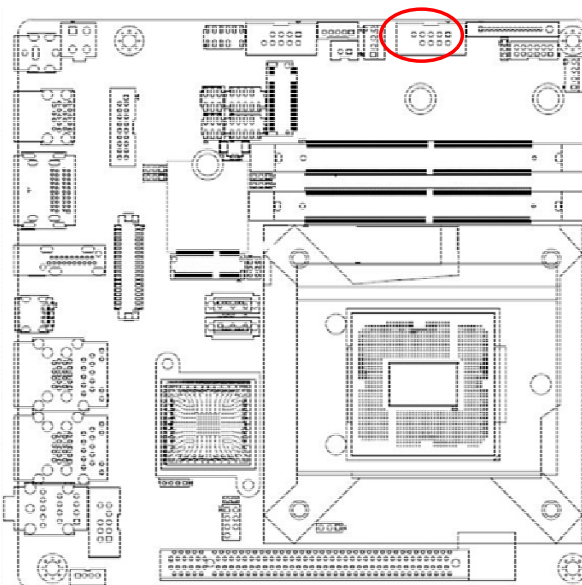
• Front USB 2.0 Headers: USB1011



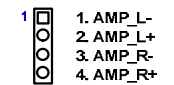
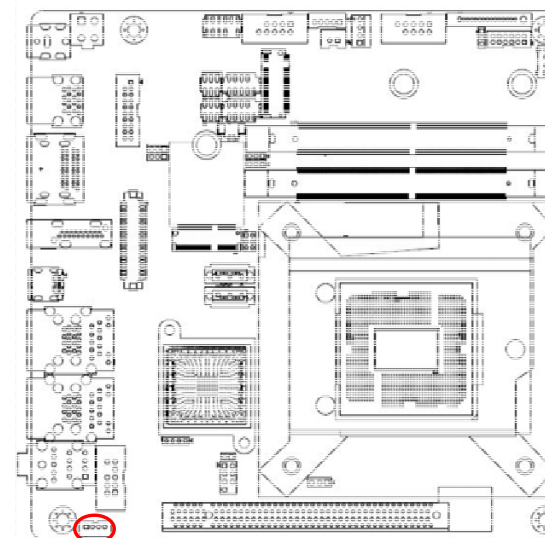
• Front Panel Audio Connector: AAFP1



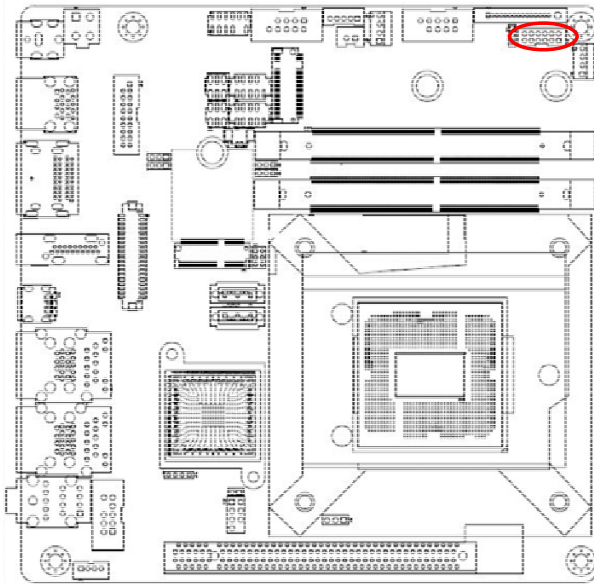
• Front Panel Connector: F_PANEL1



• Amplifier Connector: JAMP1

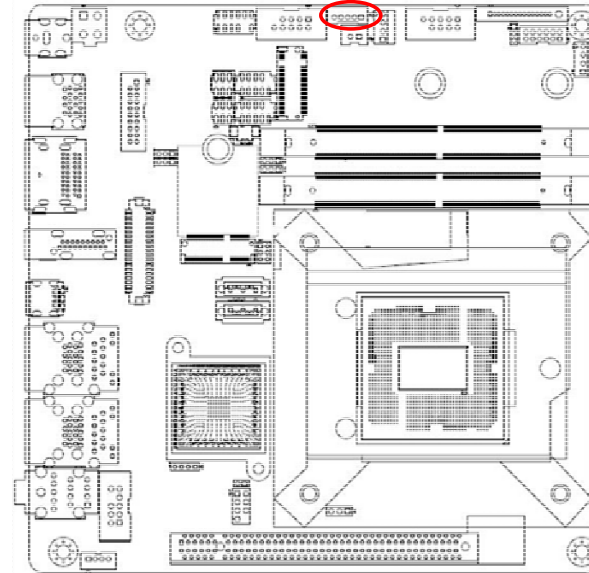


• Digital I/O Connector: JDIO1



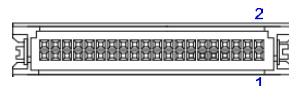
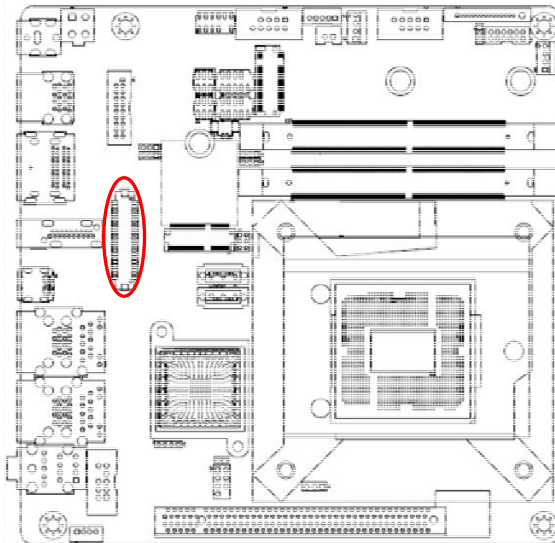
- | | |
|-------------------|---------------------|
| 1. SIO_GPIO0 | 2. SIO_GPIO4 |
| 3. SIO_GPIO1 | 4. SIO_GPIO5 |
| 5. SIO_GPIO2 | 6. SIO_GPIO6 |
| 7. SIO_GPIO3 | 8. SIO_GPIO7 |
| 9. SMB_CLK_RESUME | 10. SMB_DATA_RESUME |
| 11. GND | 12. +5Vsb |

• LVDS panel backlight connector: JBKL1



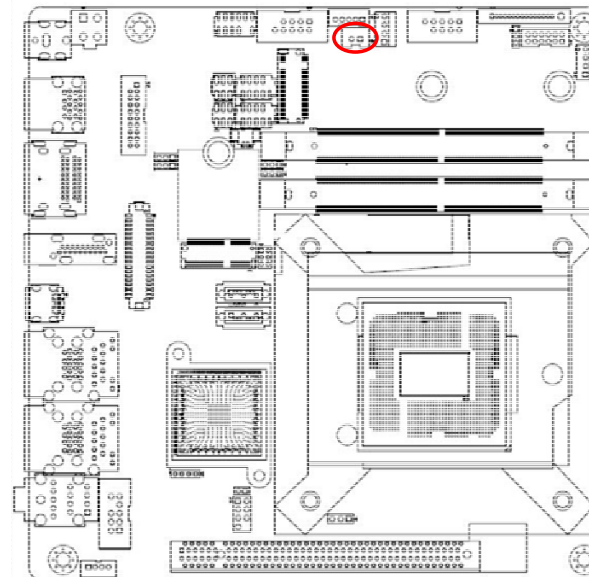
1. +12V_BL
2. GND
3. BL_EN
4. BRIGHT1
5. +5V_BL

• LVDS panel connector: LVDS1



- | | |
|-----------------|-----------------|
| 39. VDD_+12V | 40. VDD_+12V |
| 37. GND | 38. GND |
| 35. LVDS_B_CLK- | 36. LVDS_A_CLK- |
| 33. LVDS_B_CLK+ | 34. LVDS_A_CLK+ |
| 31. GND | 32. GND |
| 29. LVDS_B3- | 30. LVDS_B2- |
| 27. LVDS_B3+ | 28. LVDS_B2+ |
| 25. GND | 26. GND |
| 23. LVDS_B1- | 24. LVDS_B0- |
| 21. LVDS_B1+ | 22. LVDS_B0+ |
| 19. GND | 20. GND |
| 17. LVDS_A3- | 18. LVDS_A2- |
| 15. LVDS_A3+ | 16. LVDS_A2+ |
| 13. GND | 14. GND |
| 11. LVDS_A1- | 12. LVDS_A0- |
| 9. LVDS_A1+ | 10. LVDS_A0+ |
| 7. GND | 8. GND |
| 6. DDC_CLK | 6. DDC_DATA |
| 3. VDD_+3.3V | 4. VDD_+5V |
| 1. VDD_+3.3V | 2. VDD_+5V |

• Chassis Intrusion Connector: JCASE1



1. SIO_CASEOPEN#
2. GND