

# **ECM-CDV**

**3.5" Intel Cedarview Module**

## **Quick Installation Guide**



**3<sup>rd</sup> Ed – 7 November 2012**

### FCC Statement



THIS DEVICE COMPLIES WITH PART 15 FCC RULES. OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS:

- (1) THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE.
- (2) THIS DEVICE MUST ACCEPT ANY INTERFERENCE RECEIVED INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRE OPERATION.

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 WHEN THE EQUIPMENT IS OPERATED IN A COMMERCIAL ENVIRONMENT. THIS EQUIPMENT GENERATES, USES, AND CAN RADIATE RADIO FREQUENCY ENERGY AND, IF NOT INSTALLED AND USED IN ACCORDANCE WITH THE INSTRUCTION MANUAL, 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 HIS OWN EXPENSE.

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# 1. Getting Started

## 1.1 Safety Precautions

### Warning!



Always completely disconnect the power cord from your chassis whenever you work with the hardware. Do not make connections while the power is on. Sensitive electronic components can be damaged by sudden power surges. Only experienced electronics personnel should open the PC chassis.

### Caution!



Always ground yourself to remove any static charge before touching the CPU card. Modern electronic devices are very sensitive to static electric charges. As a safety precaution, use a grounding wrist strap at all times. Place all electronic components in a static-dissipative surface or static-shielded bag when they are not in the chassis.

**Always note** that improper disassembling action could cause damage to the motherboard. We suggest not removing the heatsink without correct instructions in any circumstance. If you really have to do this, please contact us for further support.

## 1.2 Packing List

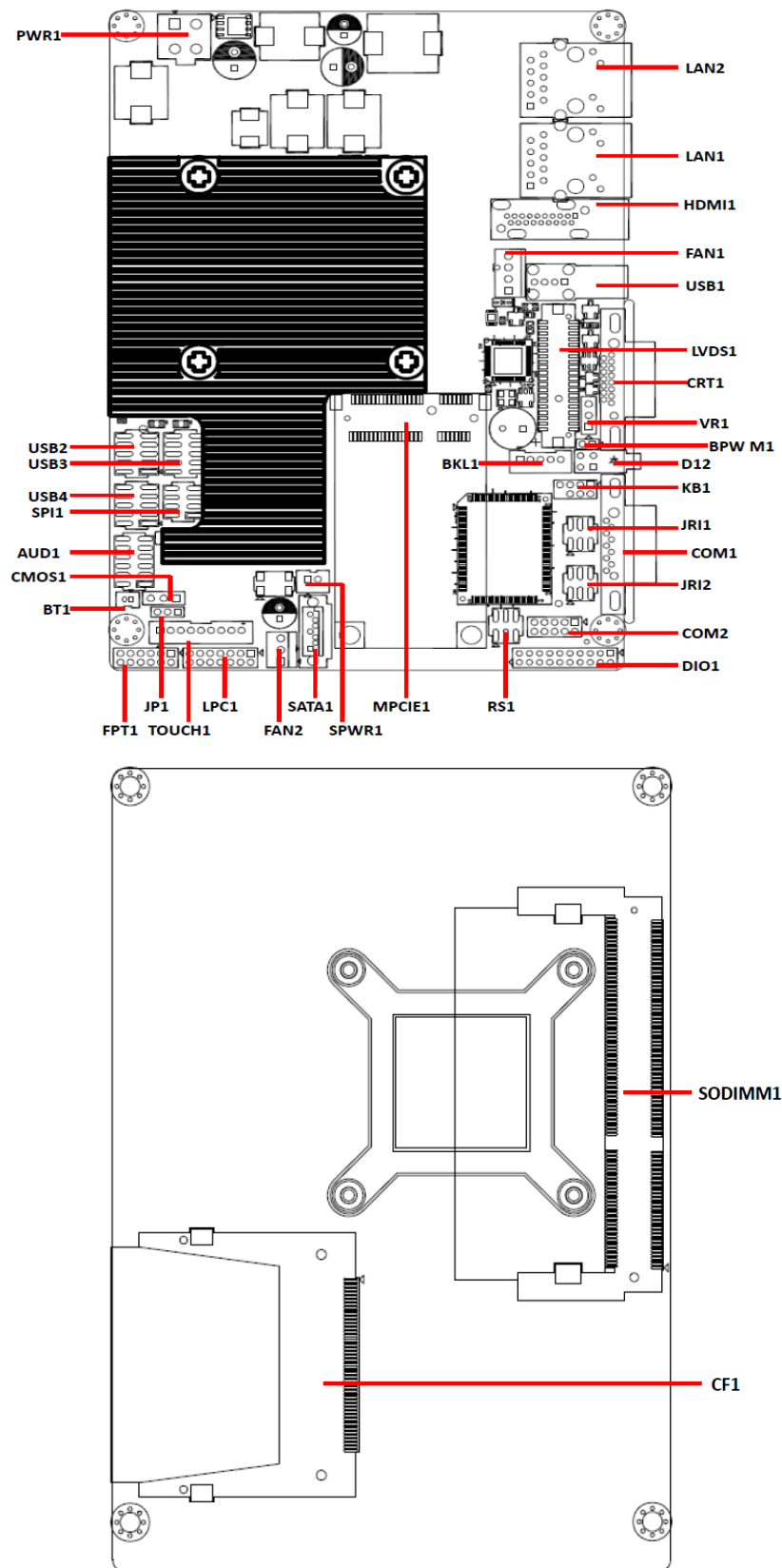
Before you begin installing your single board, please make sure that the following materials have been shipped:

- 1 x 3.5" ECM-CDV Micro Module
- 1 x Quick Installation Guide for ECM-CDV
- 1 x AUX-032 daughter board
- 1 x DVD-ROM contains the followings:
  - User's Manual (this manual in PDF file)
  - Ethernet driver and utilities
  - VGA drivers and utilities
  - Audio drivers and utilities
- 1 x Cable set contains the followings:
  - 1 x Audio cable (12pin, 2.0mm pitch)
  - 1 x USB cable
  - 1 x Serial ATA cable (7-pin, standard).
  - 1 x Wire SATA power (15-pin, 2P/2.0mm)
  - 1 x Flat Cable 9P(M)-Dupont 10P/2.0mm)
- 3M Foam (VHB-4622 10mm\*20mm\*1.1mm)

## 2. Hardware Configuration

---

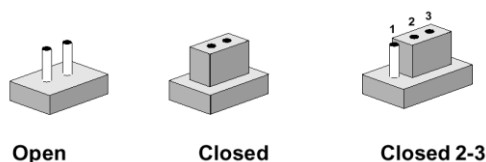
## 2.1 Product Overview



### 2.2 Jumper and Connector List

You can configure your board to match the needs of your application by setting jumpers. A jumper is the simplest kind of electric switch.

It consists of two metal pins and a small metal clip (often protected by a plastic cover) that slides over the pins to connect them. To “close” a jumper you connect the pins with the clip. To “open” a jumper you remove the clip. Sometimes a jumper will have three pins, labeled 1, 2, and 3. In this case, you would connect either two pins.



The jumper settings are schematically depicted in this manual as follows:



A pair of needle-nose pliers may be helpful when working with jumpers.

Connectors on the board are linked to external devices such as hard disk drives, a keyboard, or floppy drives. In addition, the board has a number of jumpers that allow you to configure your system to suit your application.

If you have any doubts about the best hardware configuration for your application, contact your local distributor or sales representative before you make any changes.

The following tables list the function of each of the board’s jumpers and connectors.

#### Jumpers

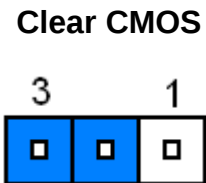
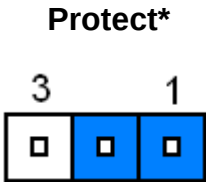
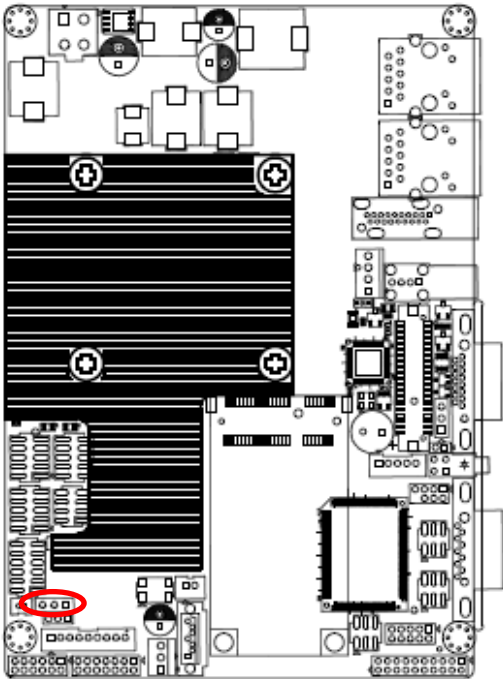
| Label             | Function                         | Note                        |
|-------------------|----------------------------------|-----------------------------|
| <b>CMOS1</b>      | Clear CMOS                       | 3 x 1 header, pitch 2.54 mm |
| <b>FPT1</b>       | Miscellaneous settings connector | 6 x 2 header, pitch 2.0 mm  |
| <b>JP1</b>        | Touch Mode selector              | 3 x 1 header, pitch 2.0 mm  |
| <b>JRI1/ JRI2</b> | Serial port 1/2 signal selector  | 3 x 2 header, pitch 2.0 mm  |
| <b>BPW M1</b>     | LCD PWM Mode Selector            | 2 x 1 header, pitch 2.0 mm  |

## Connectors

| Label             | Function                            | Note                        |
|-------------------|-------------------------------------|-----------------------------|
| <b>AUD1</b>       | Audio connector                     | 6 x 2 header, pitch 2.0 mm  |
| <b>BKL1</b>       | LCD inverter connector              | 5 x 1 wafer, pitch 2.0mm    |
| <b>BT1</b>        | Battery connector                   | 2 x 1 wafer, pitch 1.25 mm  |
| <b>CF1</b>        | CF card slot                        | CF type II                  |
| <b>COM1</b>       | Serial port 1 connector             | D-sub 9-pin, male           |
| <b>COM2</b>       | Serial port 2 connector             | 5 x 2 header, pitch 2.0 mm  |
| <b>CRT1</b>       | CRT connector                       | D-sub 15-pin, female        |
| <b>DIO1</b>       | General purpose I/O connector       | 10 x 2 header, pitch 2.0 mm |
| <b>D12</b>        | Power & HDD LED indicator           |                             |
| <b>FAN1</b>       | CPU fan connector                   | 4 x 1 wafer, pitch 2.54 mm  |
| <b>FAN2</b>       | System fan connector                | 3 x 1 wafer, pitch 2.54 mm  |
| <b>LVDS1</b>      | LVDS connector                      | 2 x 20 header, pitch 1.25mm |
| <b>HDMI1</b>      | HDMI connector                      |                             |
| <b>KB1</b>        | Keyboard & Mouse Connector          | 4 x 2 header, pitch 2.0 mm  |
| <b>LAN1/2</b>     | RJ-45 Ethernet connector 1/2        |                             |
| <b>LPC1</b>       | LPC connector                       | 7 x 2 header, pitch 2.0 mm  |
| <b>MPCIE1</b>     | Mini PCI Express Connector          |                             |
| <b>PWR1</b>       | Power connector                     | 2 x 2 wafer, pitch 4.2 mm   |
| <b>RS1</b>        | Serial port 2 in RS-422-485 mode    | 3 x 2 header, pitch 2.0 mm  |
| <b>SODIMM1</b>    | DDR3 SODIMM connector               | 204-pin                     |
| <b>SPI1</b>       | SPI connector                       | 4 x 2 header, pitch 2.0 mm  |
| <b>SPWR1</b>      | SATA power connector 1              | 2 x 1 wafer, pitch 2.0 mm   |
| <b>SATA1</b>      | Serial ATA connector 1              |                             |
| <b>TOUCH1</b>     | Touch connector                     | 9 x 1 wafer, pitch 2.0 mm   |
| <b>USB1</b>       | USB connector 1                     | USB connector               |
| <b>USB2/ 3/ 4</b> | USB connector 0&1 / 2&3 / 4&5       | 5 x 2 header, pitch 2.0 mm  |
| <b>VR1</b>        | LCD backlight brightness adjustment | 3 x 1 header, pitch 2.54mm  |

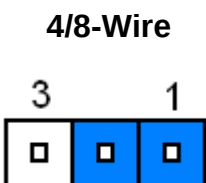
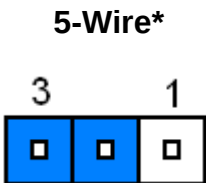
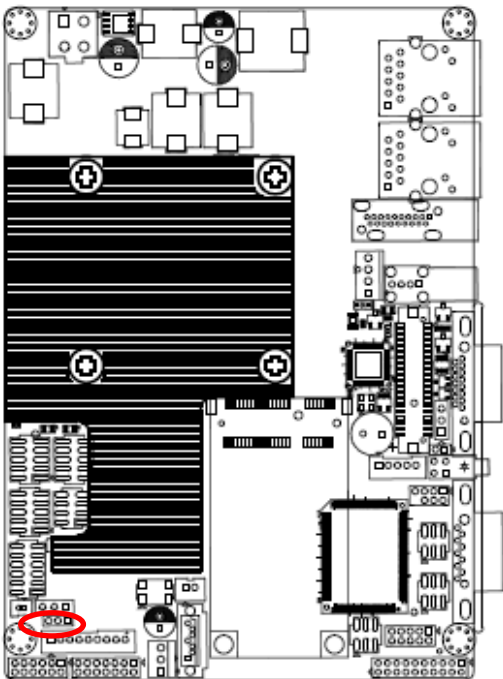
2.3 Setting Jumpers & Connectors

2.3.1 Clear CMOS (CMOS1)



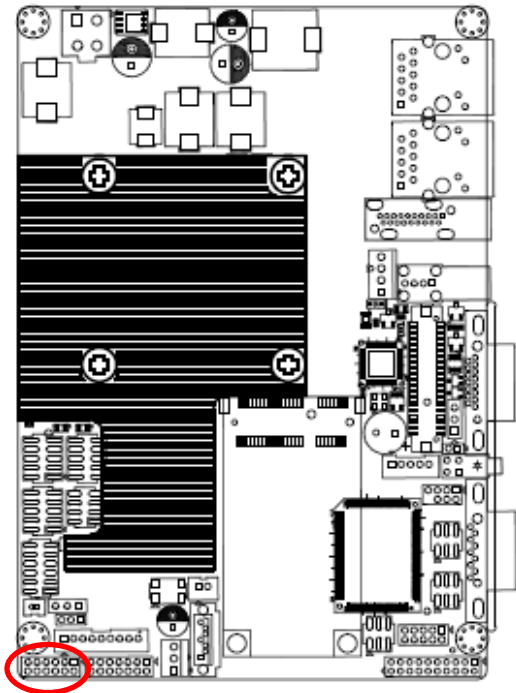
\* Default

2.3.2 Touch Mode select (JP1)



\* Default

2.3.3 Miscellaneous settings connector (FPT1)



\* Default

Power Button

|                                     |                                     |                          |                          |                          |                          |
|-------------------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| 1                                   |                                     |                          |                          |                          |                          |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

ATX Mode\*

|                                     |                                     |                          |                          |                          |                          |
|-------------------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| 1                                   |                                     |                          |                          |                          |                          |
| <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

AT Mode

|                                     |                          |                          |                          |                          |                          |
|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| 1                                   |                          |                          |                          |                          |                          |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

System Reset

|                          |                          |                                     |                                     |                          |                          |
|--------------------------|--------------------------|-------------------------------------|-------------------------------------|--------------------------|--------------------------|
| 1                        |                          |                                     |                                     |                          |                          |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |

HDD LED Mode

|                          |                          |                          |                          |                                     |                                     |
|--------------------------|--------------------------|--------------------------|--------------------------|-------------------------------------|-------------------------------------|
| 1                        |                          |                          |                          |                                     |                                     |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |

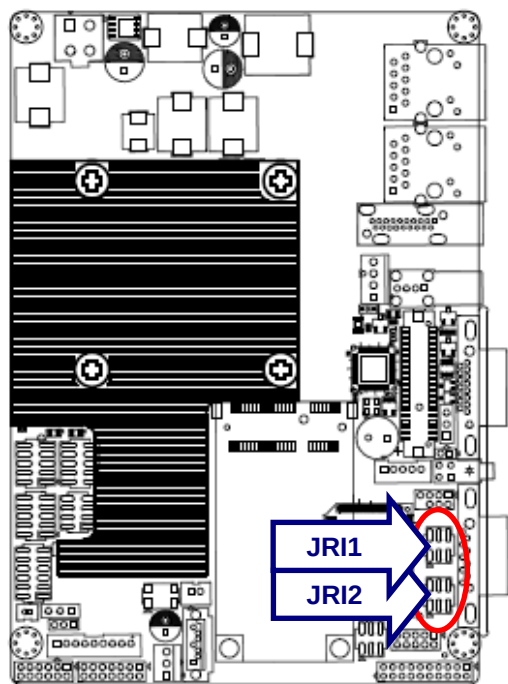
Power LED Mode

|                          |                          |                          |                          |                                     |                                     |
|--------------------------|--------------------------|--------------------------|--------------------------|-------------------------------------|-------------------------------------|
| 1                        |                          |                          |                          |                                     |                                     |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |

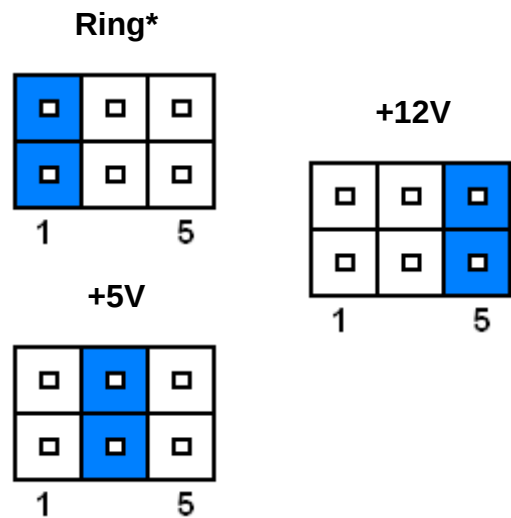
| Signal        | PIN | PIN | Signal     |
|---------------|-----|-----|------------|
| HDD_LED-      | 1   | 2   | PWR_LED+   |
| HDD_LED+      | 3   | 4   | GND        |
| GND           | 5   | 6   | PWRSB_LED+ |
| SYSRST        | 7   | 8   | PWRSB_LED- |
| DS5_PANSW IN# | 9   | 10  | GND        |
| ATX_EN#       | 11  | 12  | ATX_EN#    |

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2.3.4 Serial port 1/ 2 signal select (JRI1/ JRI2)

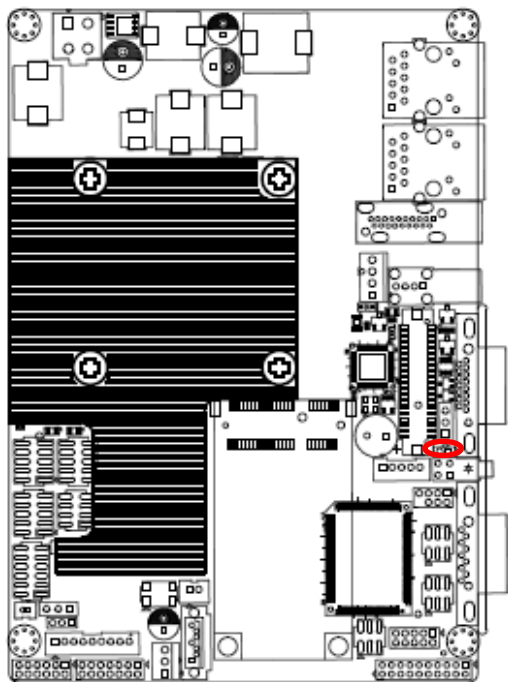


\* Default

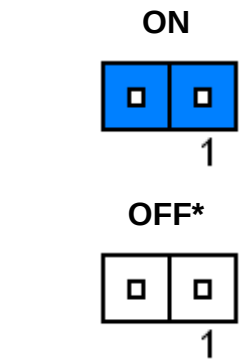


| Signal   | PIN | PIN | Signal  |
|----------|-----|-----|---------|
| JNRIA/B# | 1   | 2   | NRIA/B# |
| +5V      | 3   | 4   | NRIA/B# |
| +12V     | 5   | 6   | NRIA/B# |

2.3.5 LCD PWM Mode Selector (BPW M1)



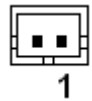
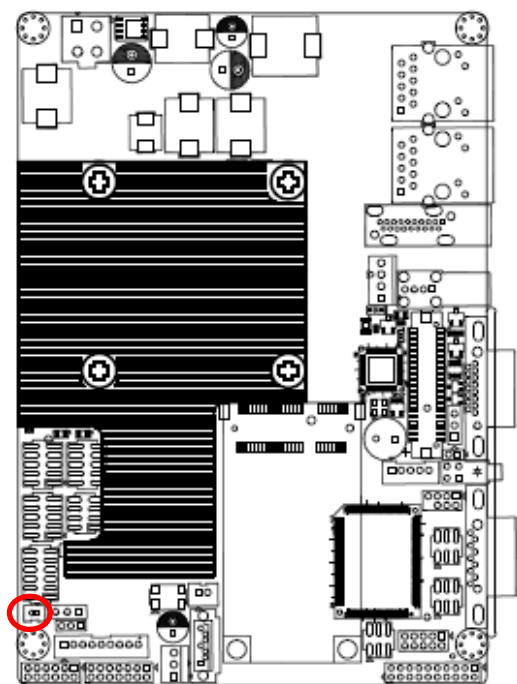
\* Default



| Signal       | PIN |
|--------------|-----|
| BRIGHT       | 1   |
| LVDS_BKLTCTL | 2   |

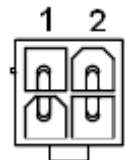
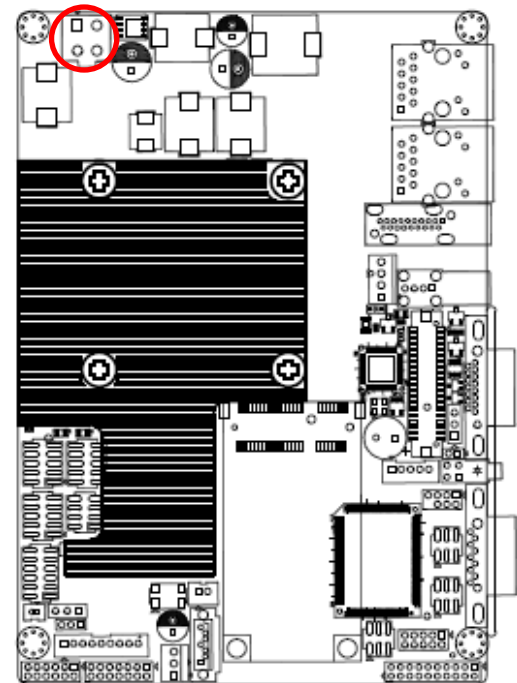
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2.3.6 Battery connector (BT1)



| Signal | PIN |
|--------|-----|
| BAT    | 1   |
| GND    | 2   |

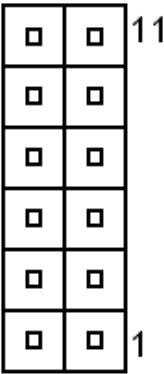
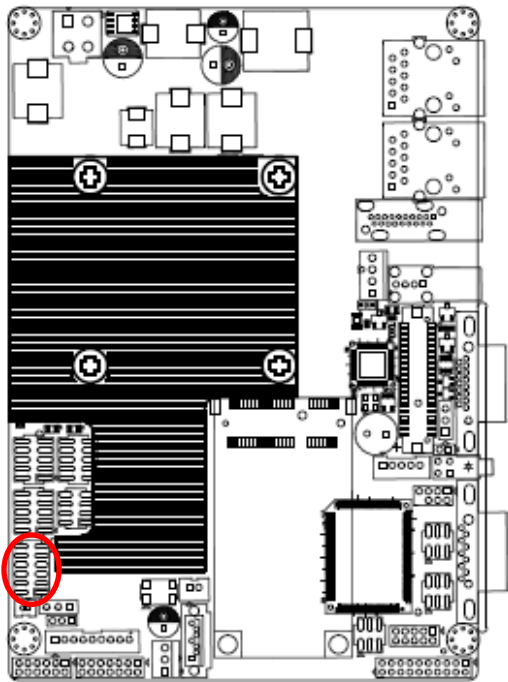
2.3.7 Power connector (PWR1)



| Signal  | PIN | PIN | Signal  |
|---------|-----|-----|---------|
| GND     | 1   | 2   | GND     |
| +12~26V | 3   | 4   | +12~26V |

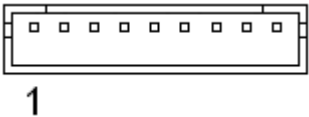
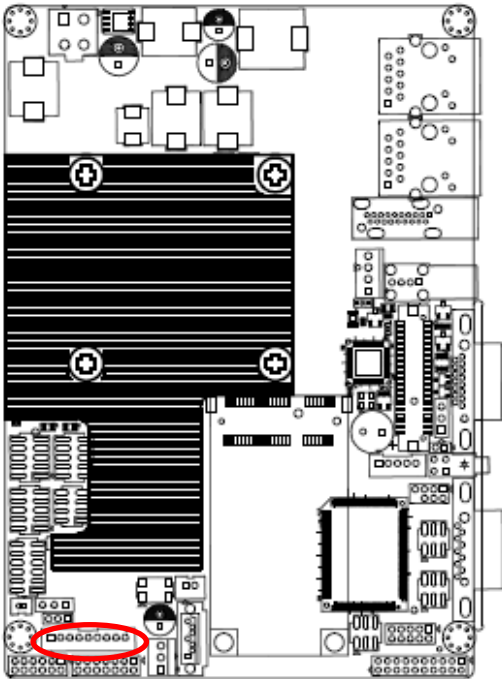
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2.3.8 Audio connector (AUD1)



| Signal    | PIN | PIN | Signal    |
|-----------|-----|-----|-----------|
| GND       | 12  | 11  | MIC1-JD   |
| LINE1-JD  | 10  | 9   | FRONT-JD  |
| MIC-LIN   | 8   | 7   | MIC-RIN   |
| LINE1_LIN | 6   | 5   | LINE1_RIN |
| GND       | 4   | 3   | GND       |
| LINEOUT_L | 2   | 1   | LINEOUT_R |

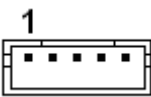
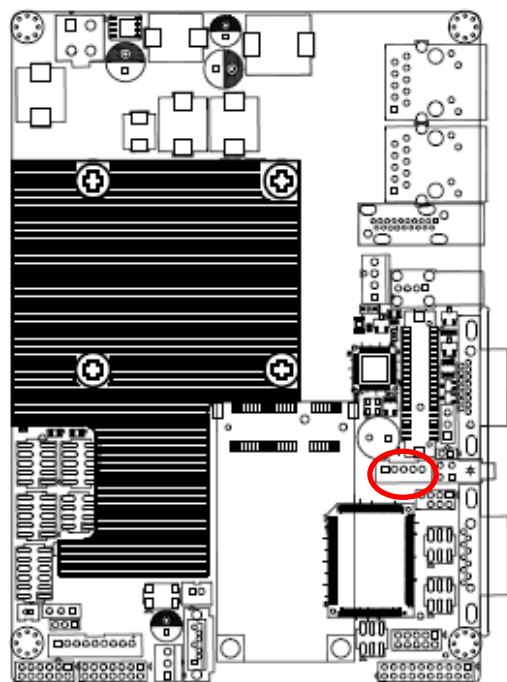
2.3.9 Touch connector (TOUCH1)



| Signal    | PIN | 4-Wire | 5-Wire | 8-Wire        |
|-----------|-----|--------|--------|---------------|
| X+        | 1   | NA     | NA     | Right Sense   |
| X-        | 2   | NA     | NA     | Left Sense    |
| Y+        | 3   | NA     | NA     | Bottom Sense  |
| SENSE     | 4   | NA     | Sense  | Top Sense     |
| X+        | 5   | Right  | LR     | Right Excite  |
| X-        | 6   | Left   | LL     | Left Excite   |
| Y+        | 7   | Bottom | UR     | Bottom Excite |
| Y-        | 8   | Top    | UL     | Top Excite    |
| TOUCH_GND | 9   | GND    | GND    | GND           |

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2.3.10 LCD inverter connector (BKL1)



| Signal      | PIN |
|-------------|-----|
| +12V        | 1   |
| GND         | 2   |
| LVDS_BLKTEN | 3   |
| BRIGHT      | 4   |
| +5V         | 5   |

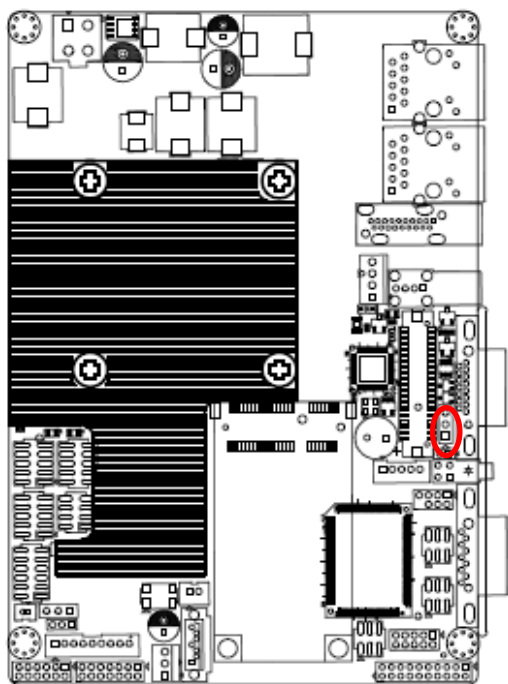
**Note:** For inverters with adjustable Backlight function, it is possible to control the LCD brightness through the VR signal controlled by **VR1**.

2.3.10.1 Signal Description – LCD Inverter Connector (BKL1)

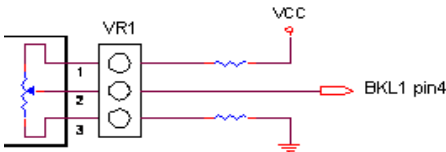
| Signal      | Signal Description                                |
|-------------|---------------------------------------------------|
| BRIGHT      | Vadj = 0.75V ~ 4.25V (Recommended: 4.7KΩ, >1/16W) |
| LVDS_BLKTEN | LCD backlight ON/OFF control signal               |

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2.3.11 LCD backlight brightness adjustment (VR1)



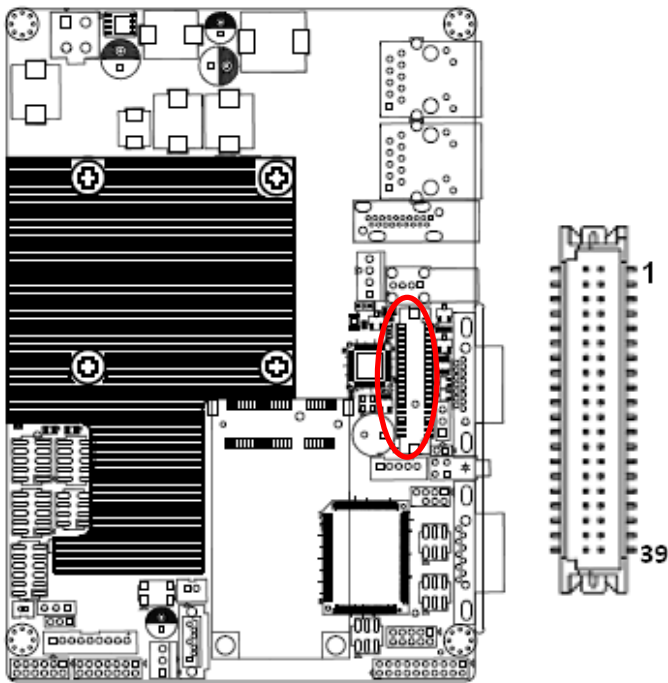
| Signal | PIN |
|--------|-----|
| GND    | 3   |
| BRIGHT | 2   |
| +5V    | 1   |



Variation Resistor

(Recommended: 4.7KΩ, >1/16W)

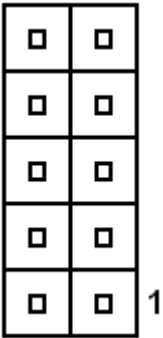
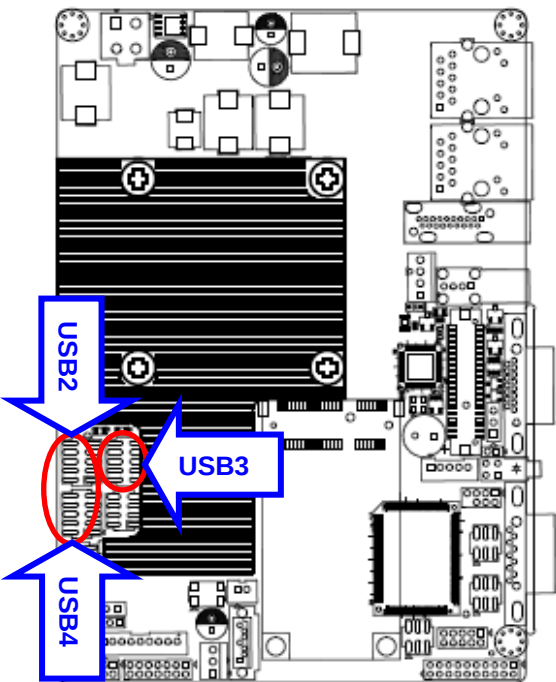
2.3.12 LVDS connector (LVDS1)



| Signal      | PIN | PIN | Signal      |
|-------------|-----|-----|-------------|
| VDD5_LVDS   | 2   | 1   | VDD3_LVDS   |
| VDD5_LVDS   | 4   | 3   | VDD3_LVDS   |
| EDP_DDC_SDA | 6   | 5   | EDP_DDC_SCL |
| GND         | 8   | 7   | GND         |
| DATA0_P     | 10  | 9   | DATA1_P     |
| DATA0_N     | 12  | 11  | DATA1_N     |
| GND         | 14  | 13  | GND         |
| DATA2_P     | 16  | 15  | DATA3_P     |
| DATA2_N     | 18  | 17  | DATA3_N     |
| GND         | 20  | 19  | GND         |
| DATA4_P     | 22  | 21  | DATA5_P     |
| DATA4_N     | 24  | 23  | DATA5_N     |
| GND         | 26  | 25  | GND         |
| DATA6_P     | 28  | 27  | DATA7_P     |
| DATA6_N     | 30  | 29  | DATA7_N     |
| GND         | 32  | 31  | GND         |
| LVDS_CLK1_P | 34  | 33  | LVDS_CLK2_P |
| LVDS_CLK1_N | 36  | 35  | LVDS_CLK2_N |
| GND         | 38  | 37  | GND         |
| VDD12_LVDS  | 40  | 39  | VDD12_LVDS  |

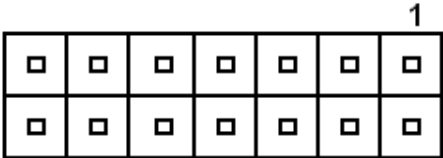
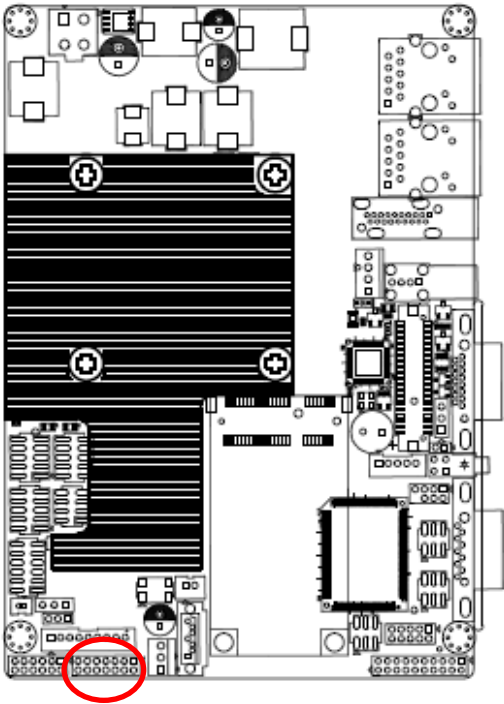
ECM-CDV Quick Installation Guide

2.3.13 USB connector 0&1 / 2&3 / 4&5 (USB2/ 3/ 4)



| Signal      | PIN | PIN | Signa       |
|-------------|-----|-----|-------------|
| +5V         | 10  | 9   | GND         |
| USB_NP1/3/5 | 8   | 7   | GND         |
| USB_PP1/3/5 | 6   | 5   | USB_PP0/2/4 |
| GND         | 4   | 3   | USB_NP0/2/4 |
| GND         | 2   | 1   | +5V         |

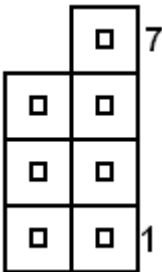
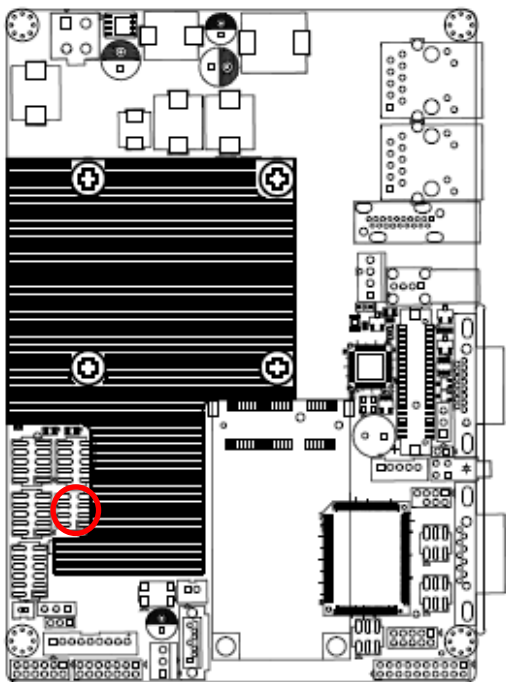
2.3.14 LPC connector (LPC1)



| Signal | PIN | PIN | Signal       |
|--------|-----|-----|--------------|
| AD0    | 1   | 2   | +V3P3_S      |
| AD1    | 3   | 4   | PLTRST#      |
| AD2    | 5   | 6   | LPC_FRAME#   |
| AD3    | 7   | 8   | LPC1_PCI_CLK |
| SERIRQ | 9   | 10  | GND          |
| +V5S   | 11  | 12  | GND          |
| +V5A   | 13  | 14  | LPC_LDRQ0#   |

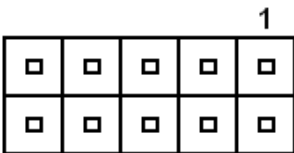
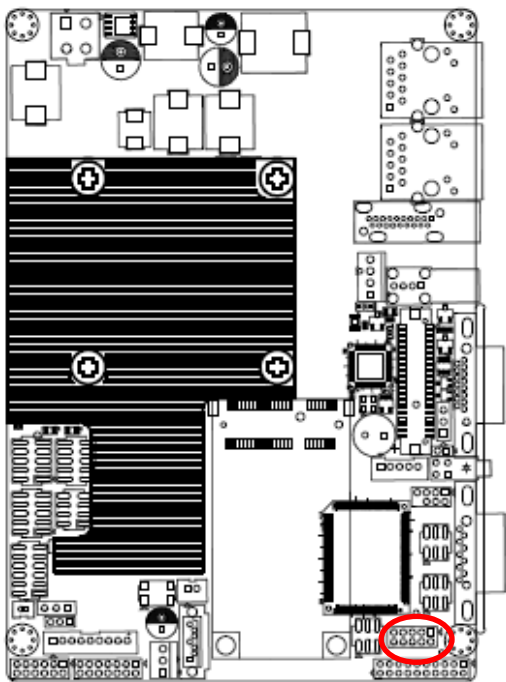
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2.3.15 SPI connector (SPI1)



| Signal  | PIN | PIN | Signal     |
|---------|-----|-----|------------|
|         |     | 7   | SPI_HOLD#  |
| SPI_SI  | 6   | 5   | SPI_SO     |
| SPI_CLK | 4   | 3   | SPI_CS#    |
| GND     | 2   | 1   | +V3P3A_SPI |

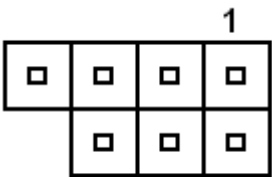
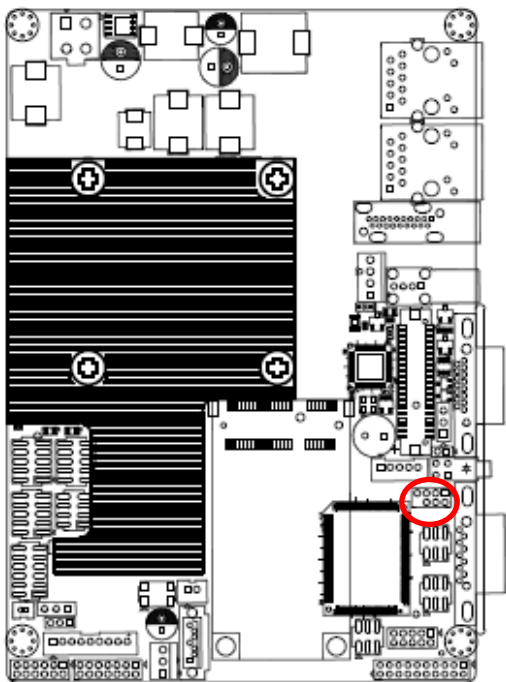
2.3.16 Serial port 2 connector (COM2)



| Signal | PIN | PIN | Signal |
|--------|-----|-----|--------|
| DCDB#  | 1   | 2   | RxDB   |
| TxDB   | 3   | 4   | DTRB#  |
| GND    | 5   | 6   | DSRB#  |
| RTSB#  | 7   | 8   | CTSB#  |
| RIB#   | 9   | 10  | NC     |

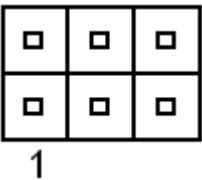
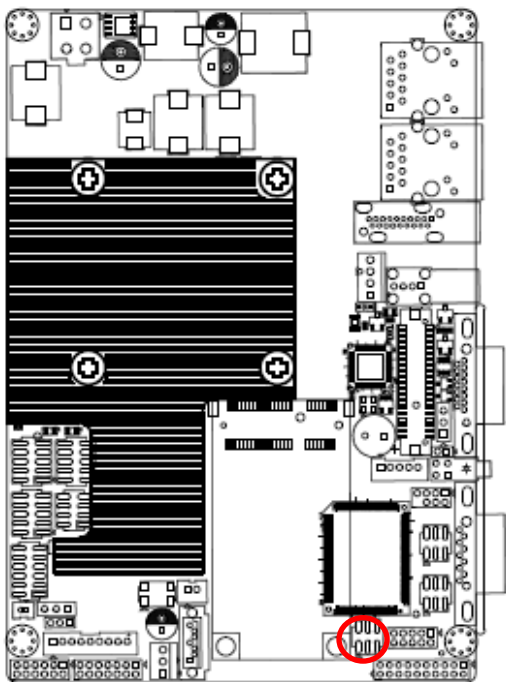
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2.3.17 Keyboard & Mouse Connector (KB1)



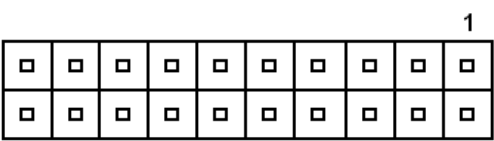
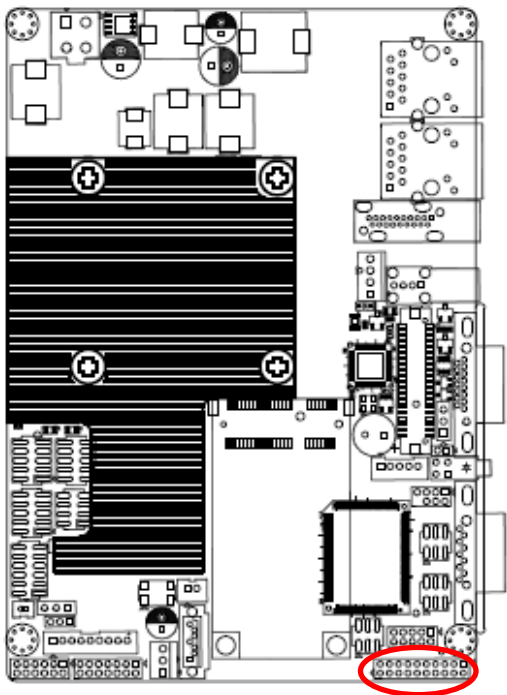
| Signal  | PIN | PIN | Signal  |
|---------|-----|-----|---------|
| KBDA    | 1   | 2   | KBCK    |
| GND_PS2 | 3   | 4   | VCC_PS2 |
| MSDA    | 5   | 6   | MSCK    |
| NC      | 7   |     |         |

2.3.18 Serial port 2 in RS-422-485 mode (RS1)



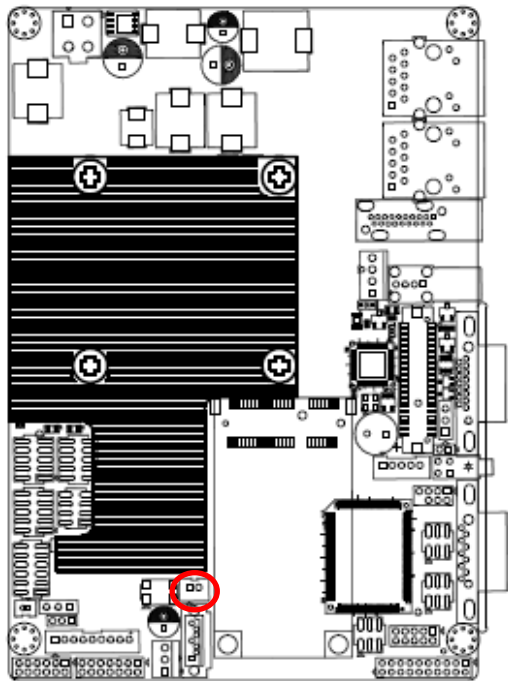
| Signal     | PIN | PIN | Signal |
|------------|-----|-----|--------|
| 485_422TX- | 1   | 2   | 422RX- |
| 485_422TX+ | 3   | 4   | 422RX+ |
| +5V        | 5   | 6   | GND    |

2.3.19 General purpose I/O connector (DIO1)



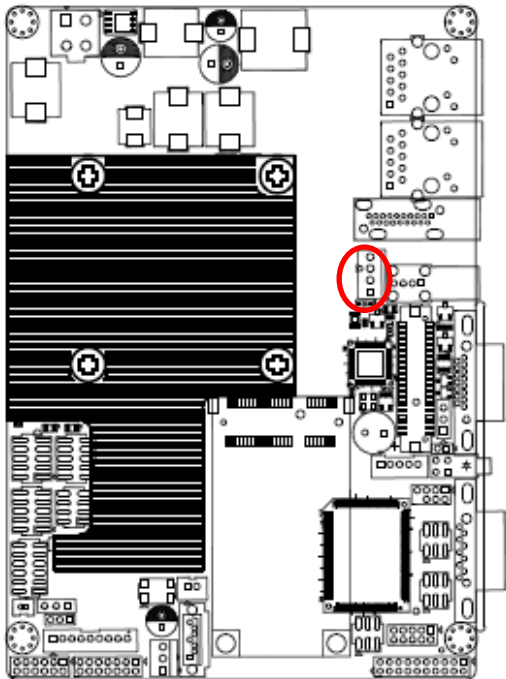
| Signal  | PIN | PIN | Signal   |
|---------|-----|-----|----------|
| DI0     | 1   | 2   | DO0      |
| DI1     | 3   | 4   | DO1      |
| DI2     | 5   | 6   | DO2      |
| DI3     | 7   | 8   | DO3      |
| DI4     | 9   | 10  | DO4      |
| DI5     | 11  | 12  | DO5      |
| DI6     | 13  | 14  | DO6      |
| DI7     | 15  | 16  | DO7      |
| SMB_CLK | 17  | 18  | SMB_DATA |
| GND     | 19  | 20  | +5V      |

2.3.20 SATA power connector (SPWR1)



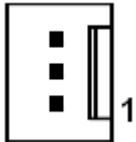
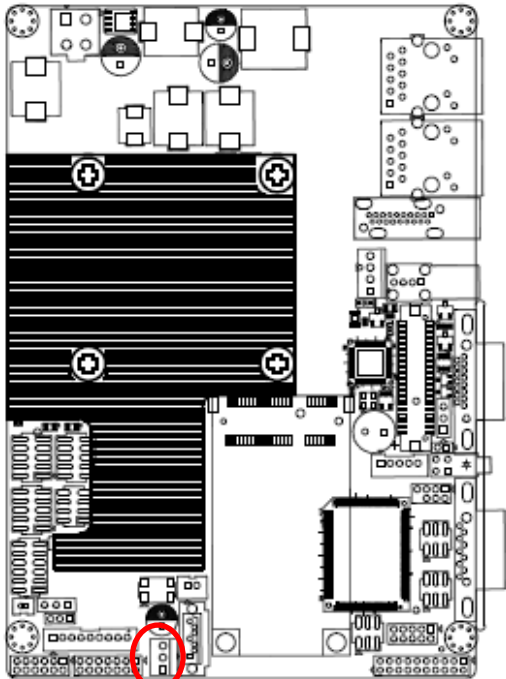
| Signal | PIN |
|--------|-----|
| GND    | 1   |
| +5V    | 2   |

2.3.21 CPU fan connector (FAN1)



| Signal     | PIN |
|------------|-----|
| CPU_FANOUT | 4   |
| CPU_FANIN  | 3   |
| +12V       | 2   |
| GND        | 1   |

2.3.22 System fan connector (FAN2)



| Signal    | PIN |
|-----------|-----|
| SYS_FANIN | 3   |
| +12V      | 2   |
| GND       | 1   |

