

G2L Core Board

Renesas Electronics
www.renesas.com

NT2106A1

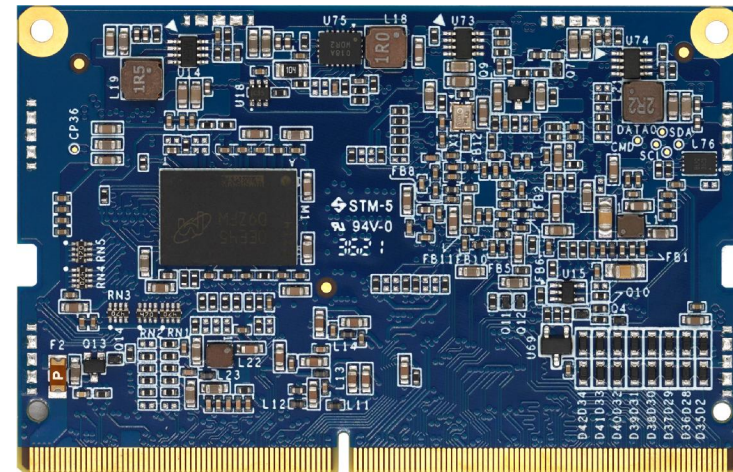
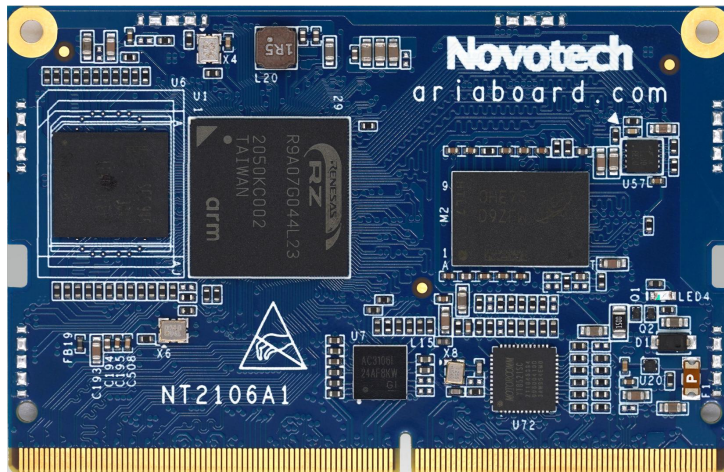
Ariaboard

Designed by Shanghai Novotech

https://ariaboard.com/products/renesas_g2l.html



G2L Core Board

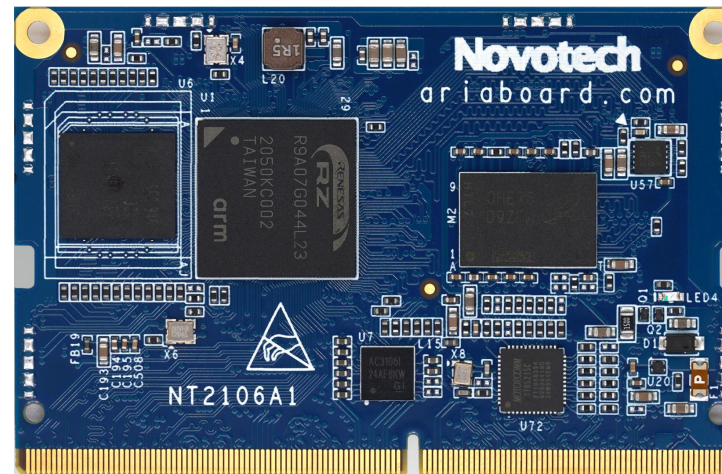


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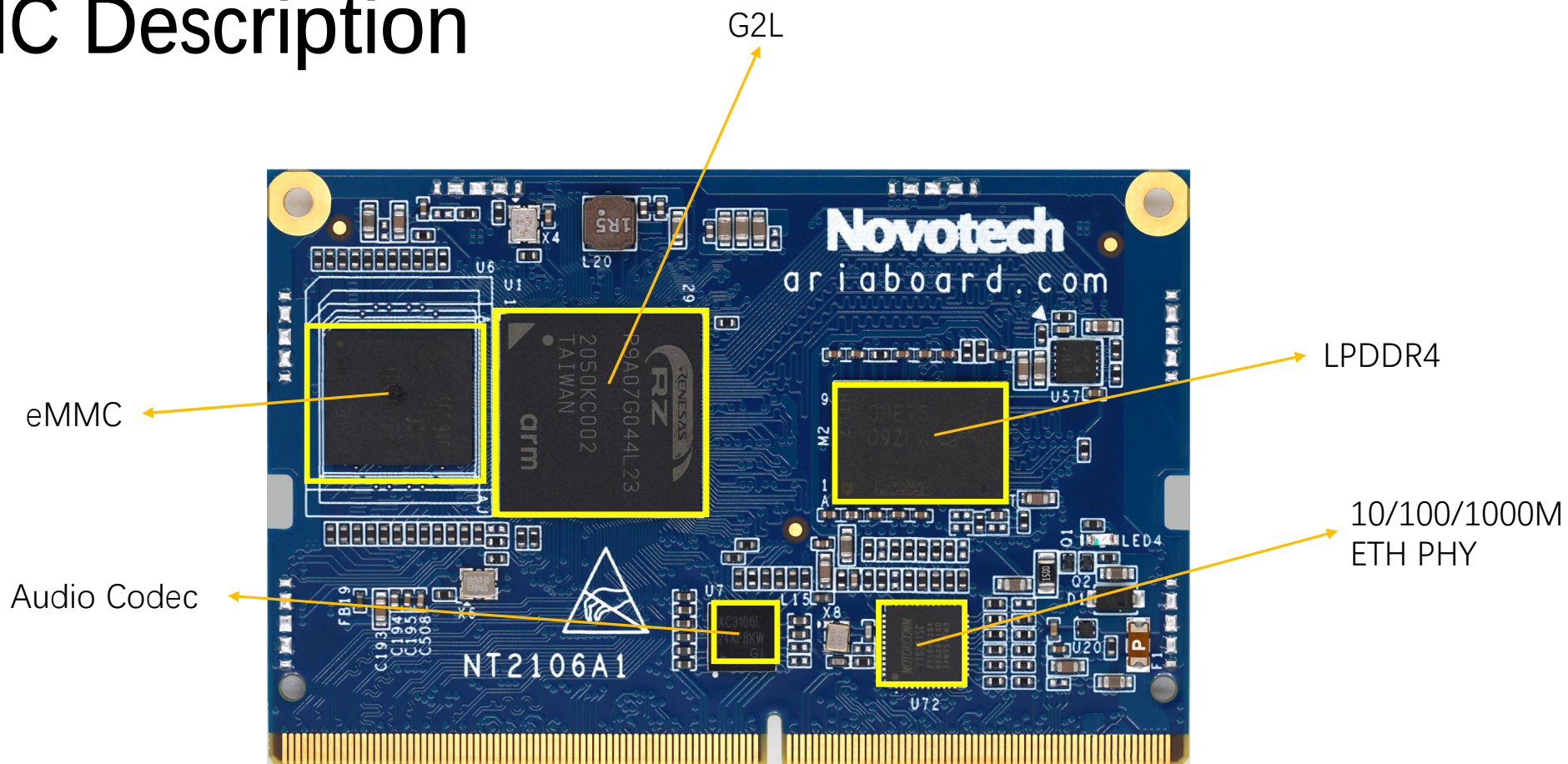
- Module Size: 45mm x 70mm x 5.2mm (without Heat sink) ;
- G2L core Board use DDR4 SODIMM 260P STD Connector;

Hardware Spec

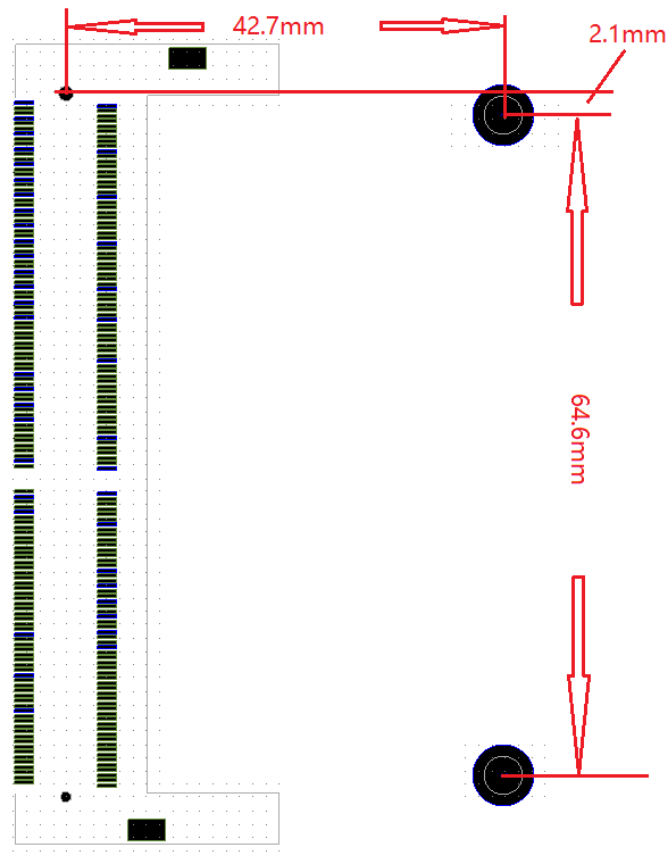
- CPU: Renesas RZ/G2E Dual Cortex®-A35 1.2GHz;
- DDR: 16bit LPDDR4-3200 4GByte ;
- Flash: eMMC-5.1 4GByte;(up to 16GB)
- Audio Codec: Ti AIC3106 24bit/8kHz ~ 192kHz ADC/DAC;
- Ethernet: YT8521 10/100/1000M PHY
- Display: RGB888;
1 Channel MIPI;
- Camera: 4-line CSI;
- UART x5
- CAN BUS x1
- QSPI x2
- SPI x1
- I2C x4
- I2S x1
- USB2.0 x1
- SDIO x2
- RGMII x1
- Power: DC5V@1.5A



IC Description



Layout

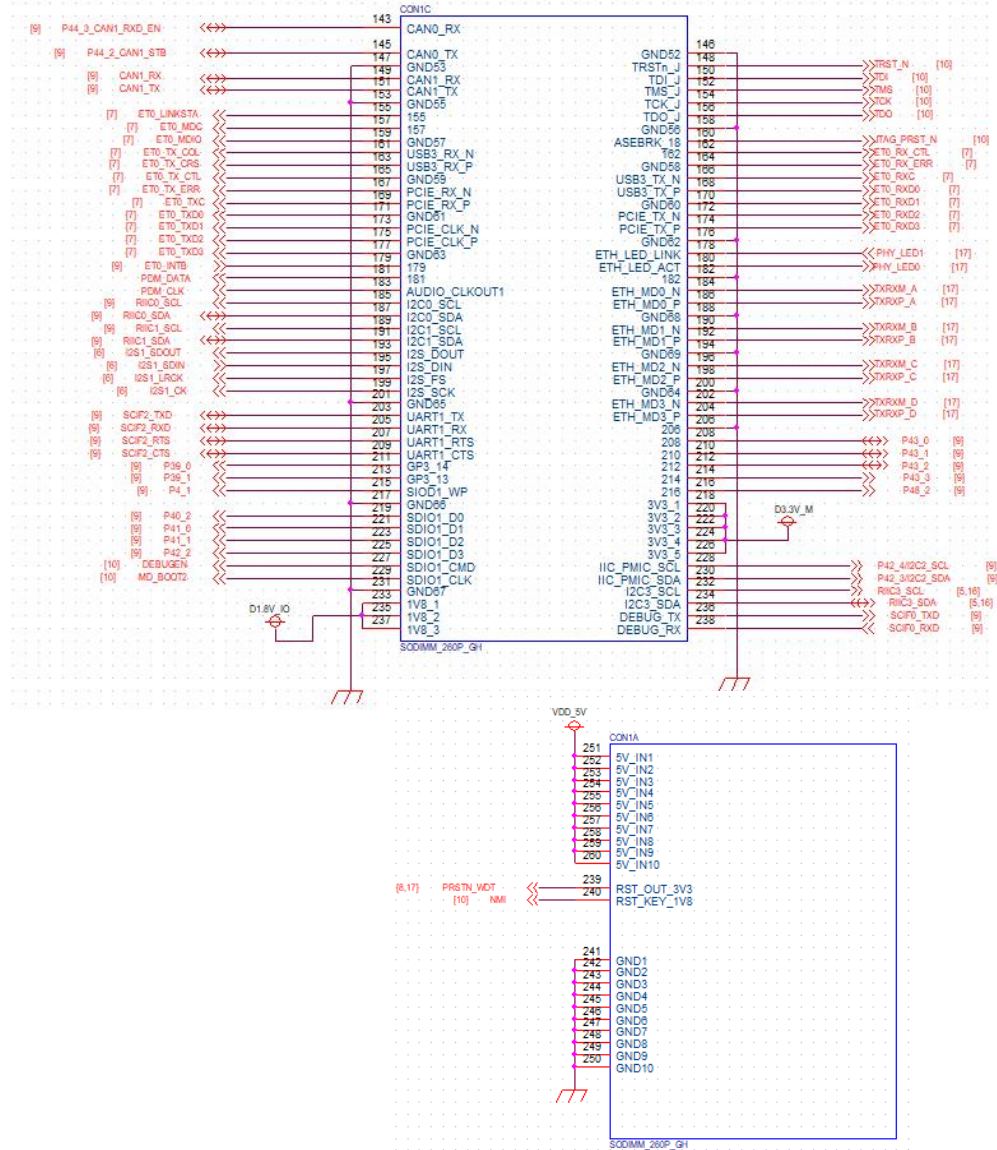
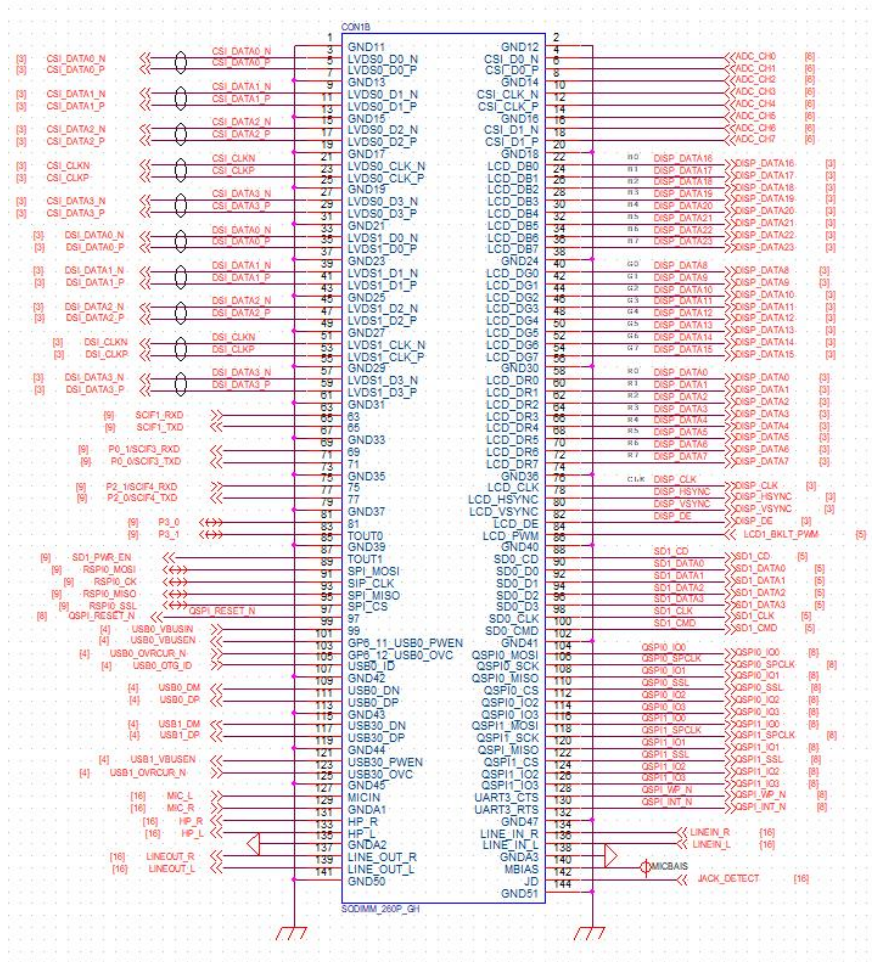


IO CONN

- Socket CONN: TE Internal #: 2309409-4 (H=5.2mm)
TE Internal #: 2309411-1 (H=8mm)
TE Internal #: 2309413-4 (H=9.2mm)



IO Description



G2L EVB Board

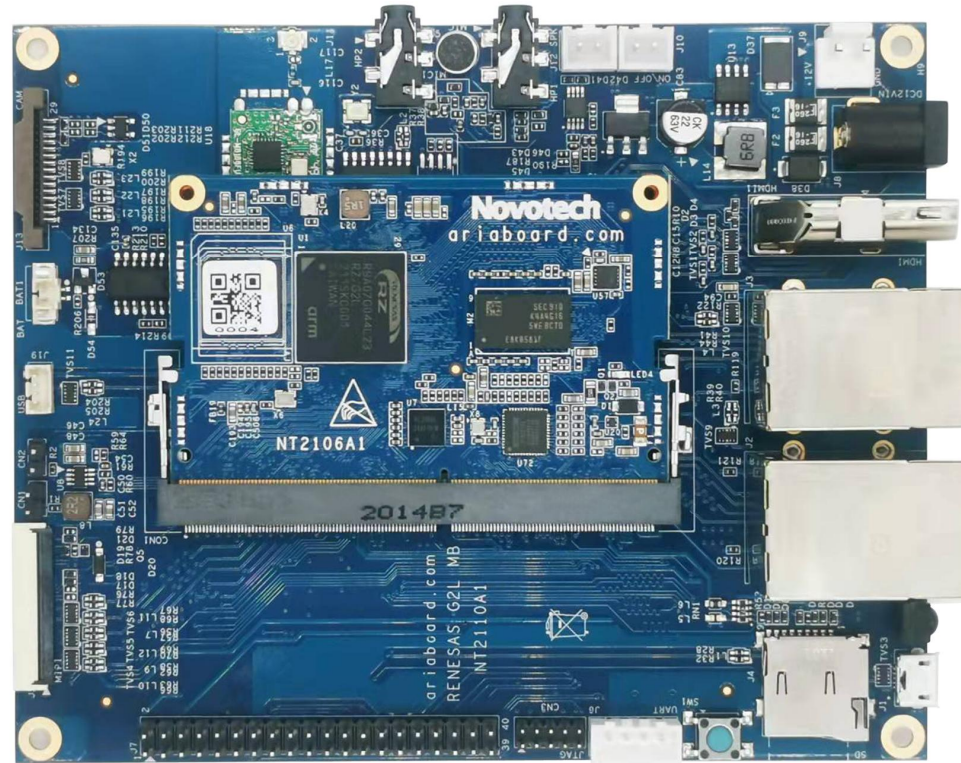
Ariaboard.com

NT2110A1

Shanghai Novotech



G2L EVB Board

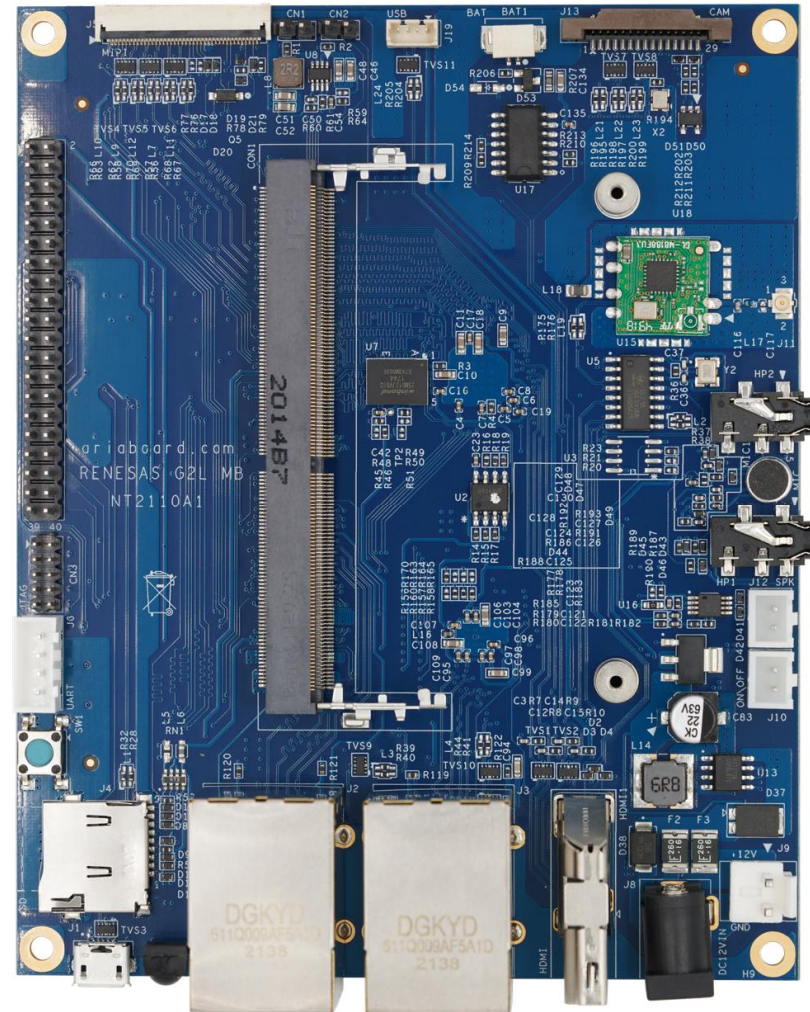


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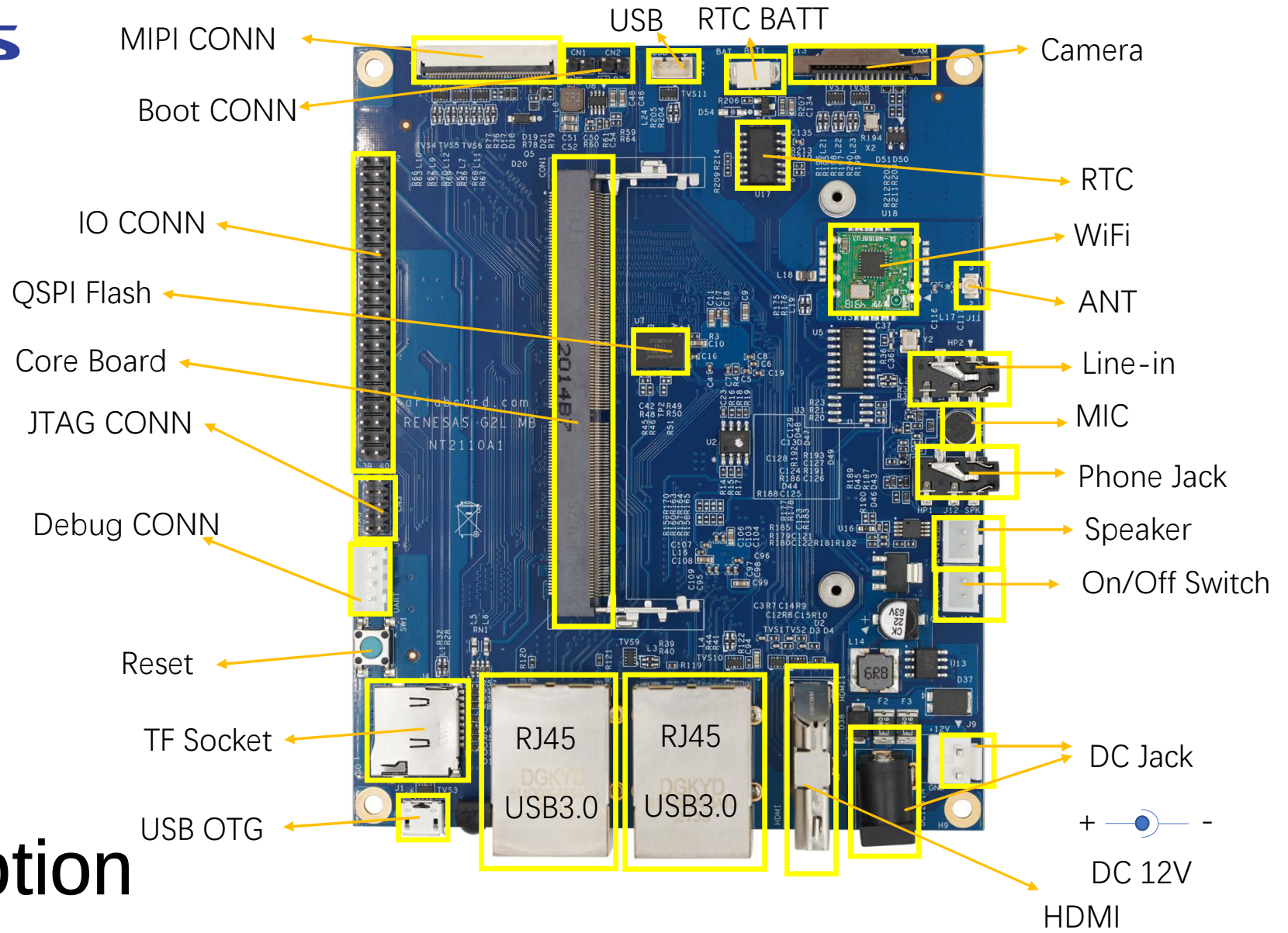
- EVB Size : 105mm x 130mm x 27mm (without Heat sink) ;

Hardware Spec

- RTC: RX-8025SA;
- QSPI Flash: W25M512JVBIQ;
- WiFi: BL-M8188 (802.11b/g/n)
- Audio IO: Stereo Headphone x1;
Stereo Line-in x1;
Mic x1;
MONO Speaker CONN (2W/8ohm)
- Ethernet: RJ45 100/1000M x2
- LCD CONN: MiPi; (with TP)
- Camera CONN: 2-line CSI;
- HDMI x1
- CAN BUS x1
- RS485 x1
- IRDA x1
- USB2.0 OTG x1
- USB2.0 x2
- Reset KEY
- Debug Port (UART TTL3.3V 115200)
- JTAG CONN x1
- TF Socket x1
- DC JACK: DC12V@1.5A



RENESAS



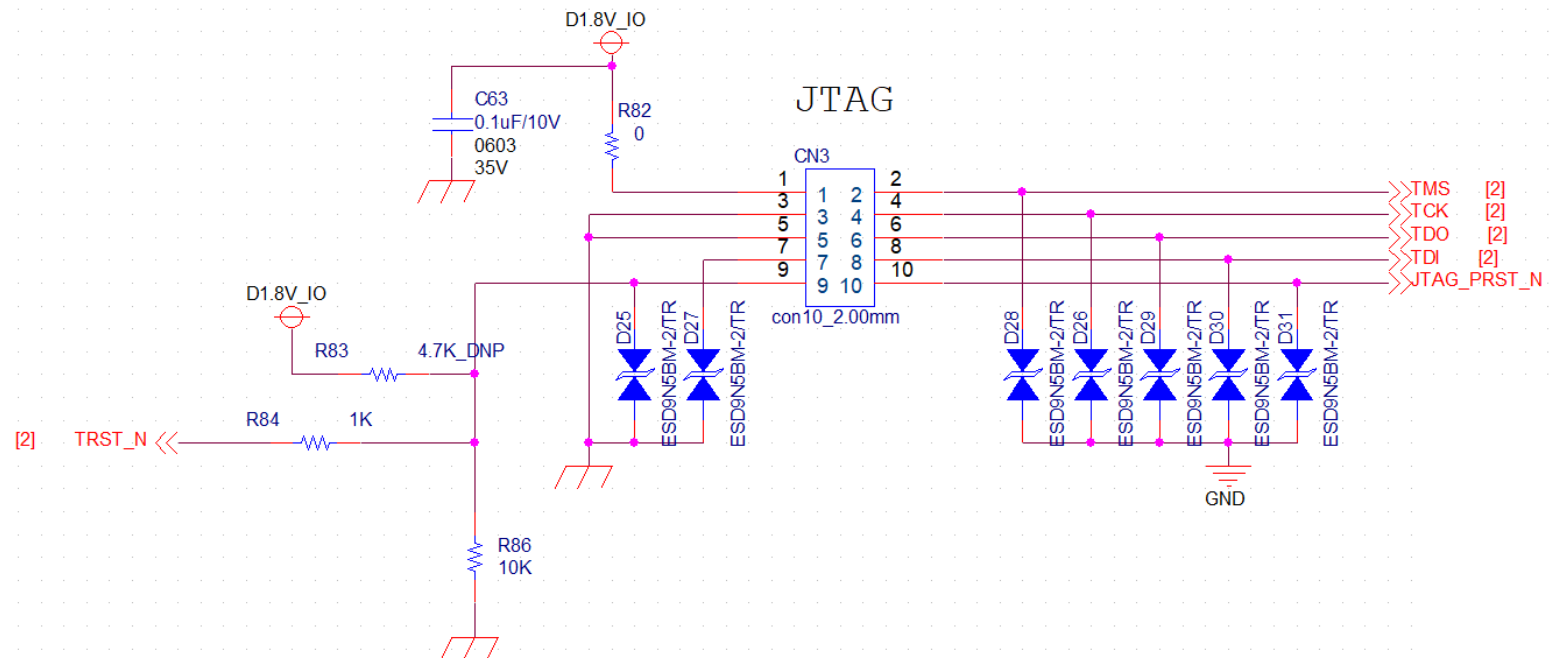
IO Description

IO Description

- Boot CONN
 - CN1
 - (Short) : Boot from Debug UART for Download mode;
 - (Open) : Boot from eMMC for normal mode;
 - CN2
 - (Short) : Debug mode;
 - (Open) : Normal mode;

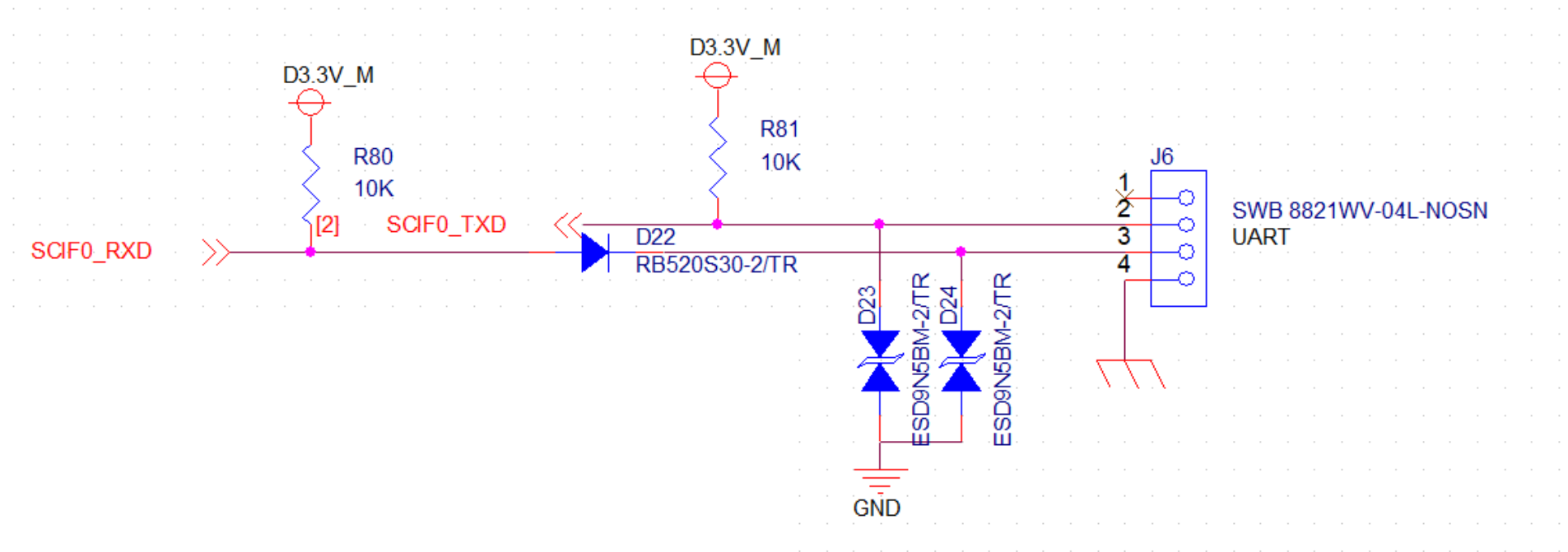
IO Description

- JTAG CONN



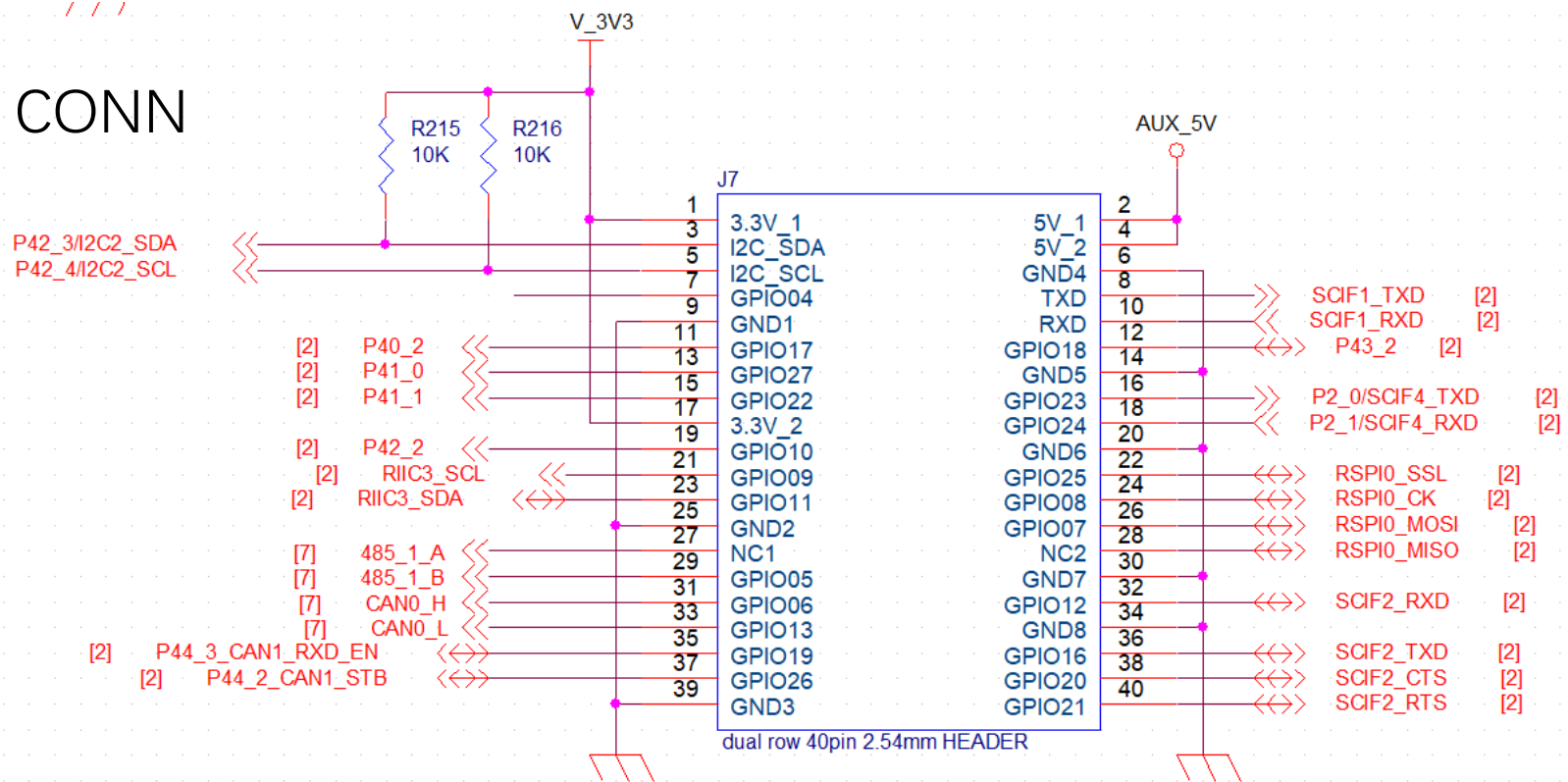
IO Description

- Debug CONN



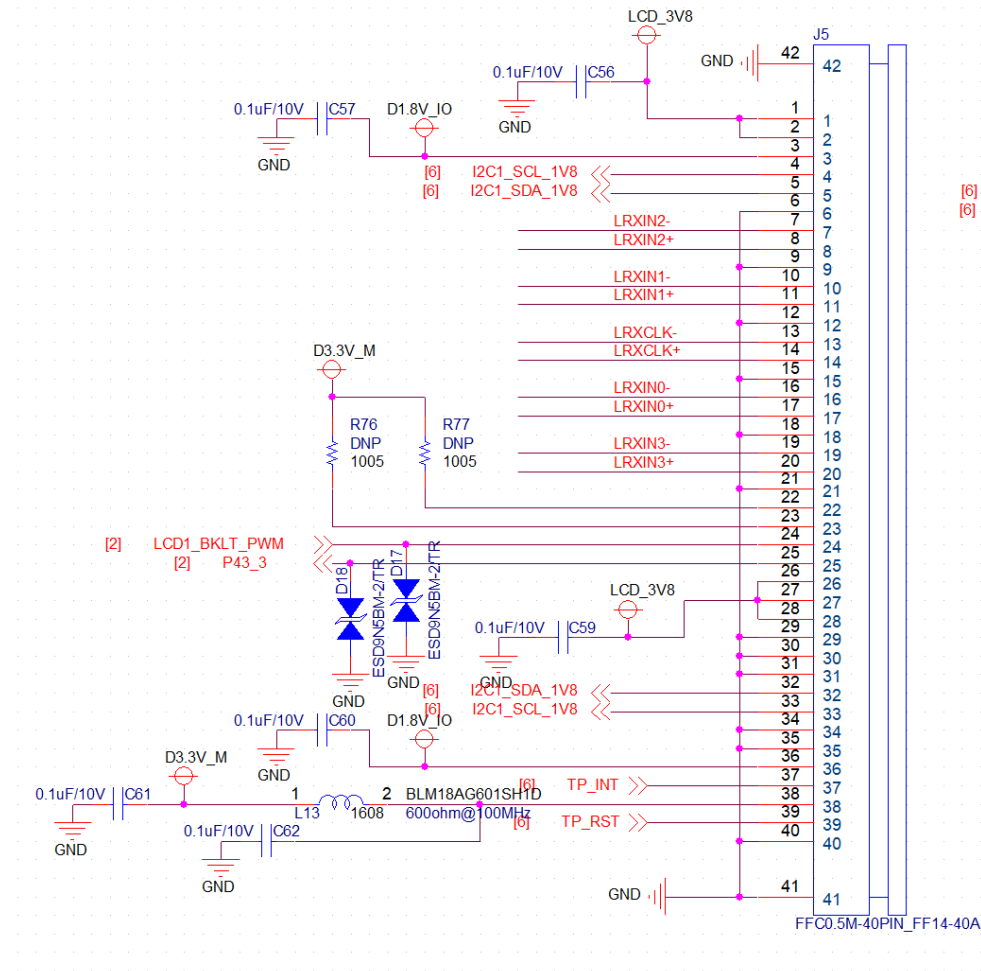
IO Description

• IO CONN



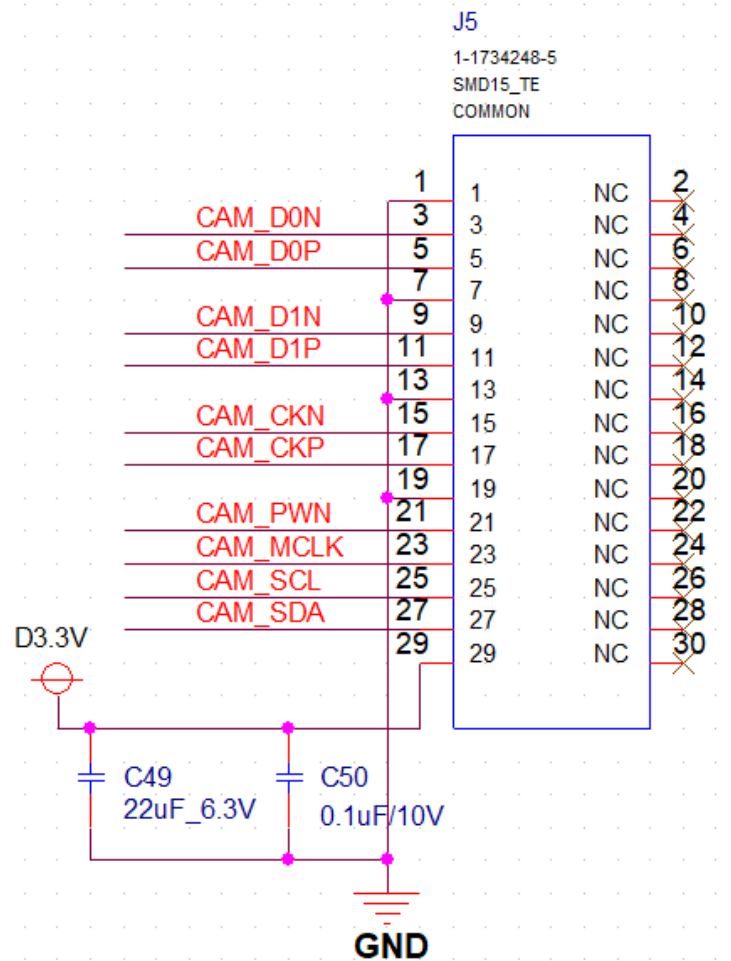
IO Description

- MiPi CONN



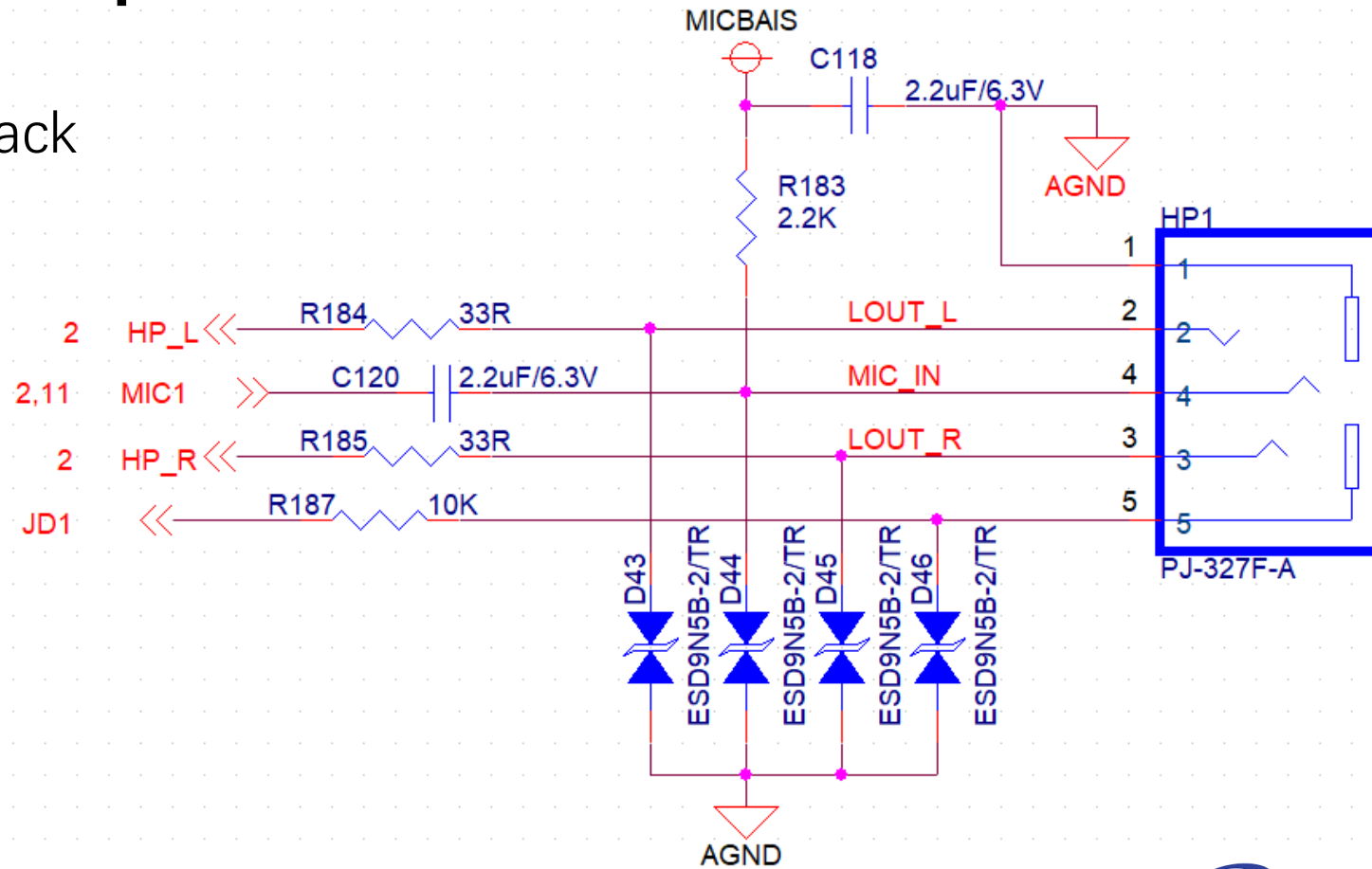
IO Description

- Camera CONN



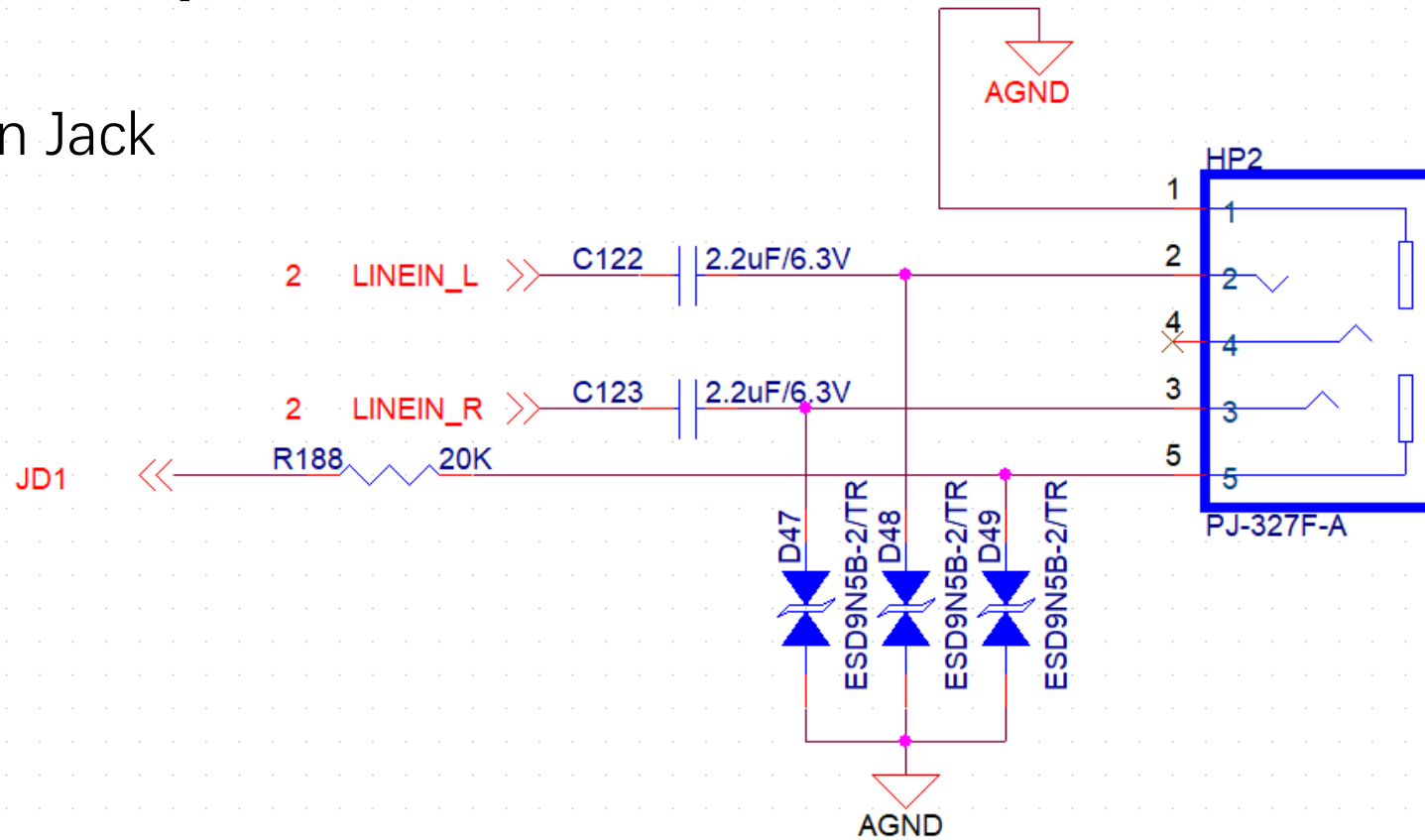
IO Description

- Phone Jack



IO Description

- Line-in Jack



IO Description

- RTC BATT CONN
 - PIN1: BATT+
 - PIN2: GND
- Speaker CONN
 - PIN1: Speaker-
 - PIN2: Speaker+
- ON/OFF CONN
 - (Short) : Power OFF
 - (Open) : Power ON

