#### UART x5

UART\_AO\_A Or DEBUG UARTO
UART\_AO\_B x1 UART4
UART\_EE\_A Or BLUETOOTH UART1
UART\_EE\_B Or WIFI GPIO UART2
UART\_EE\_C Or RS485 UART3

#### PWM x6

PWMA or WIFI GPIO PWMB or WIFI GPIO PWMC or WIFI GPIO PWMD or WIFI GPIO PWME or WIFI GPIO PWME or UFI 32.768K

#### VIDEO OUTPUT

MIPI DSI LCD x1 HDMI x1 CVBS OUT x1 ISO7816 x1 or GPIO

#### VIDEO INPUT

MIPI CSI CAMERA x2 CAMERA DVP x1 or GPIO TSIN x2 or GPIO

#### AUDIO

AUDIO SPK 0.8W x1 TDM/I2S x1 or GPIO SPDIF OUT x1 or GPIO

#### PCIE / USB x3

HOST 2.0 x1 OTG 2.0 x1 HOST 3.0 x1 or PCIE

## PRO-A311D CORE BOARD PRO-S905 CORE BOARD BLOCK DIAGRAM

A311D CPU AMLOGIC Quad Core A73 Dual-Core A53 GPU G52 MP4 NPU 5.0Tops

S905 CPU AMLOGIC Quad Core A55 GPU G31 MP2 NPU 1.2Tops

LPDD4 1GB/2GB/4GB EMMC 5.1 8GB-128GB SDIO x2

SDIO0 or TF Card SDIO1 or WIFI

SPI x2

SPI\_A or BT PCM SPI B or GPIO/UART

I2C x4

I2C\_AO\_MO or RTC/CAMERA1 I2C EE M1 or BT PCM I2C\_EE\_M2 or GPIO/CAMERA2 I2C\_EE\_M3 or TOUCH

ADC x4

ADC INPUT x4

IR RX x1

IR RX x1

GPIO x80

GPIO REPEAT x80

GMAC PHY

GMAC ETHERNET or GPIO

EMAC 10/100M

ETHNENET MAC x1

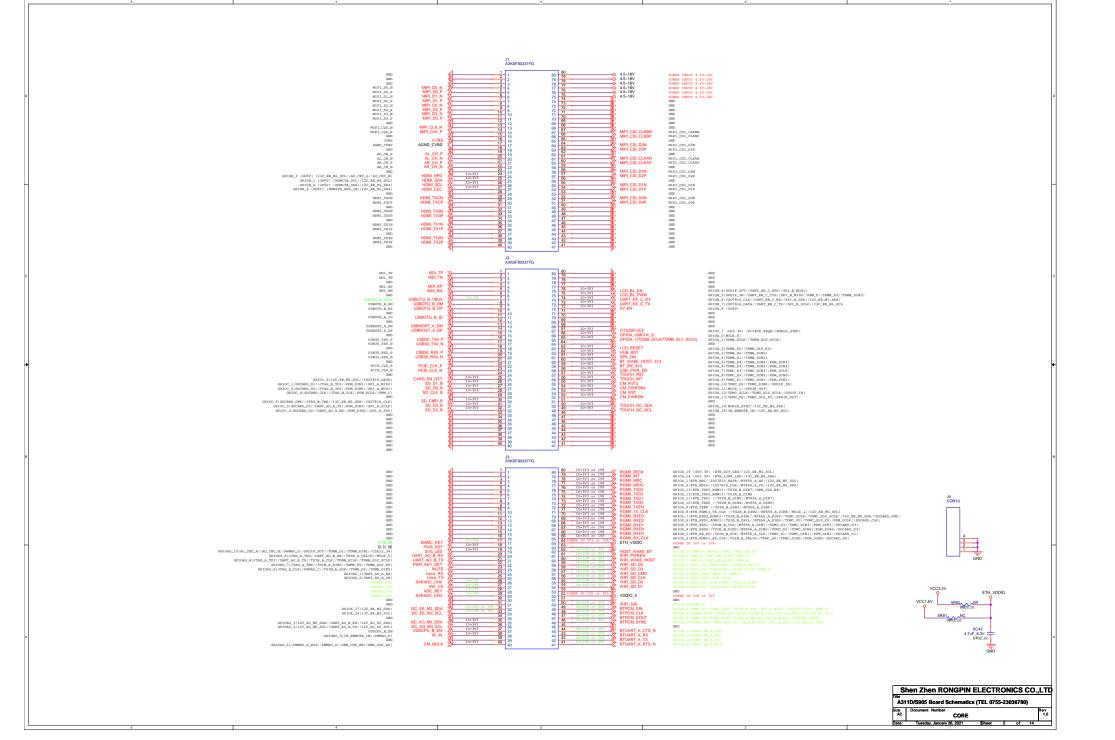
### Shen Zhen RONGPIN ELECTRONICS CO.,LTD

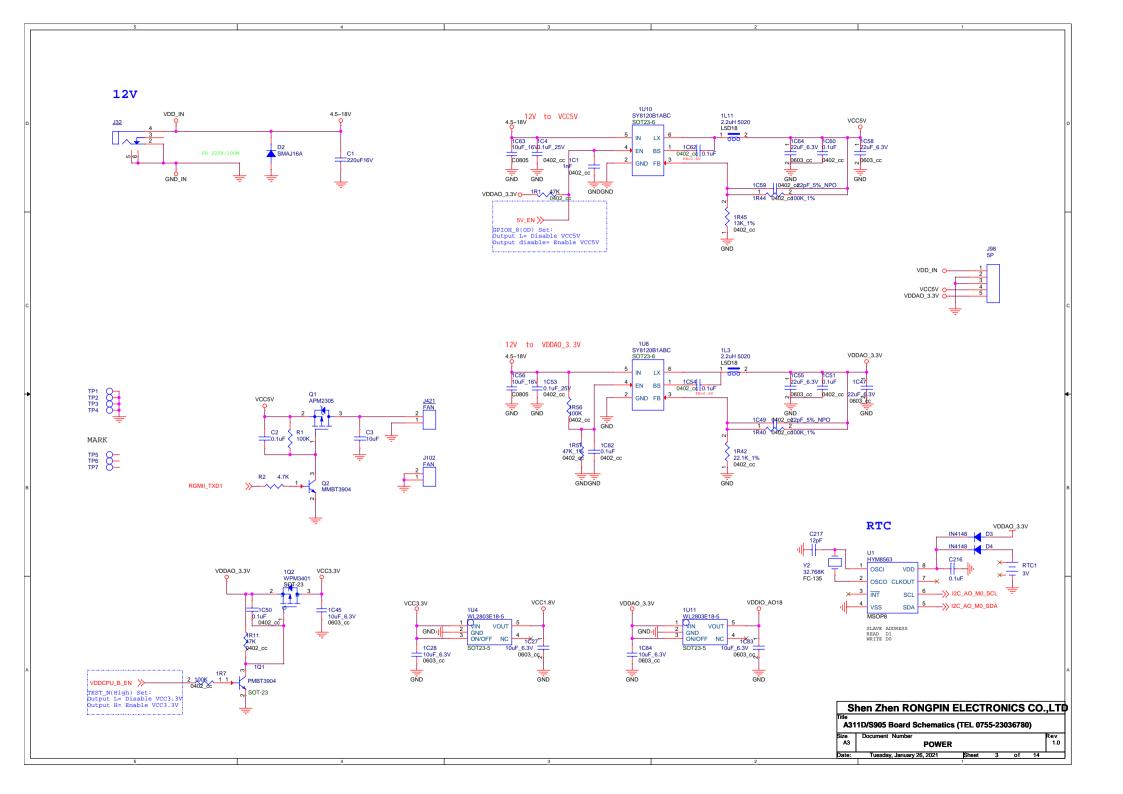
A311D/S905 Board Schematics (TEL 0755-23036780)

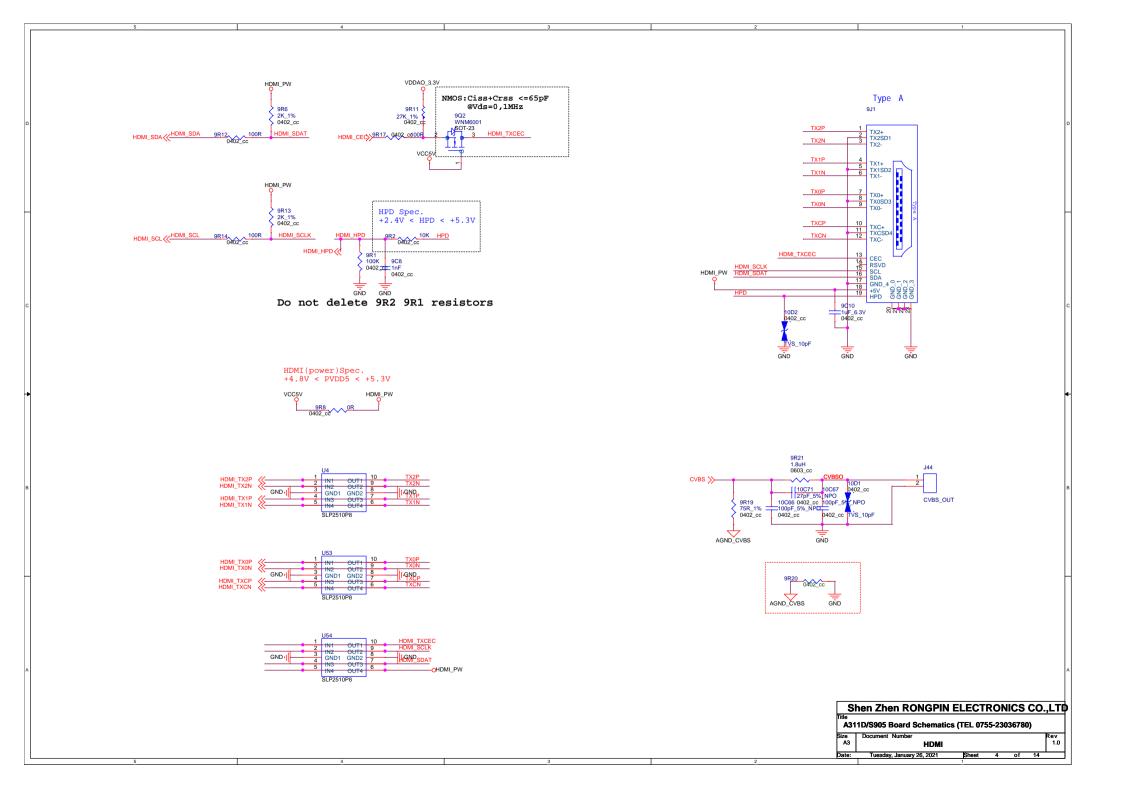
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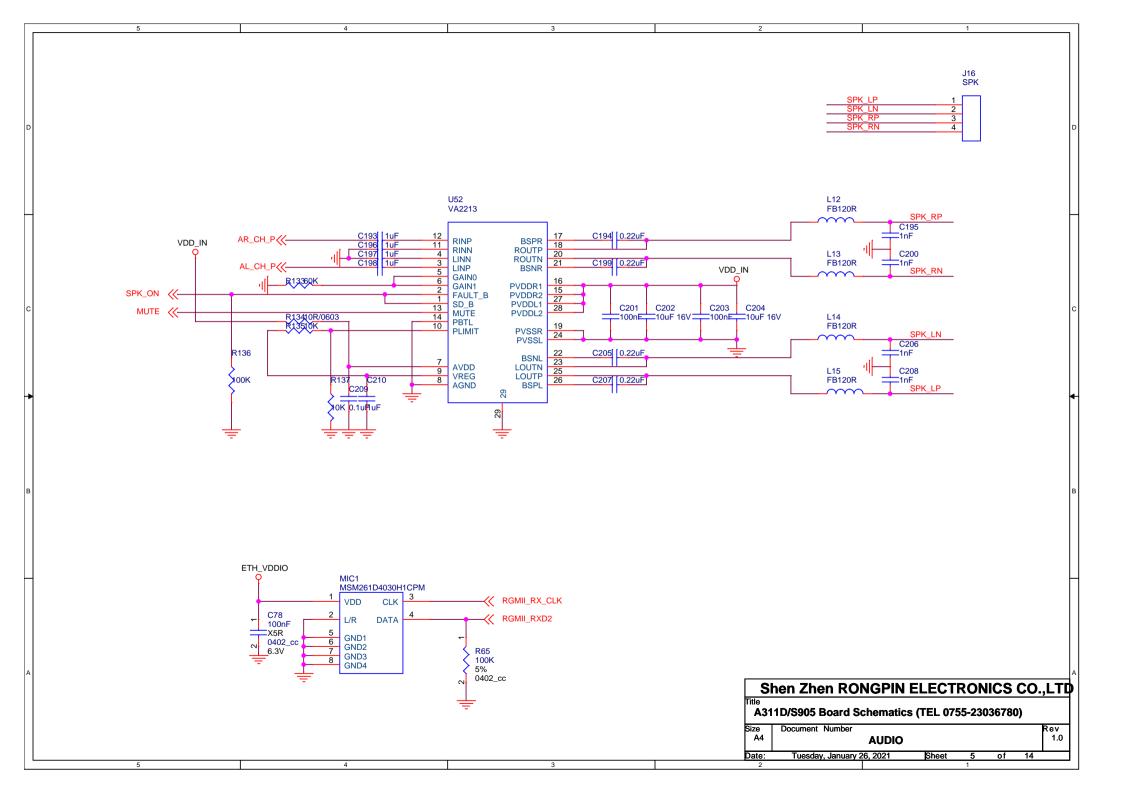
Wednesday, January 27, 2021 Sheet 1 of 14

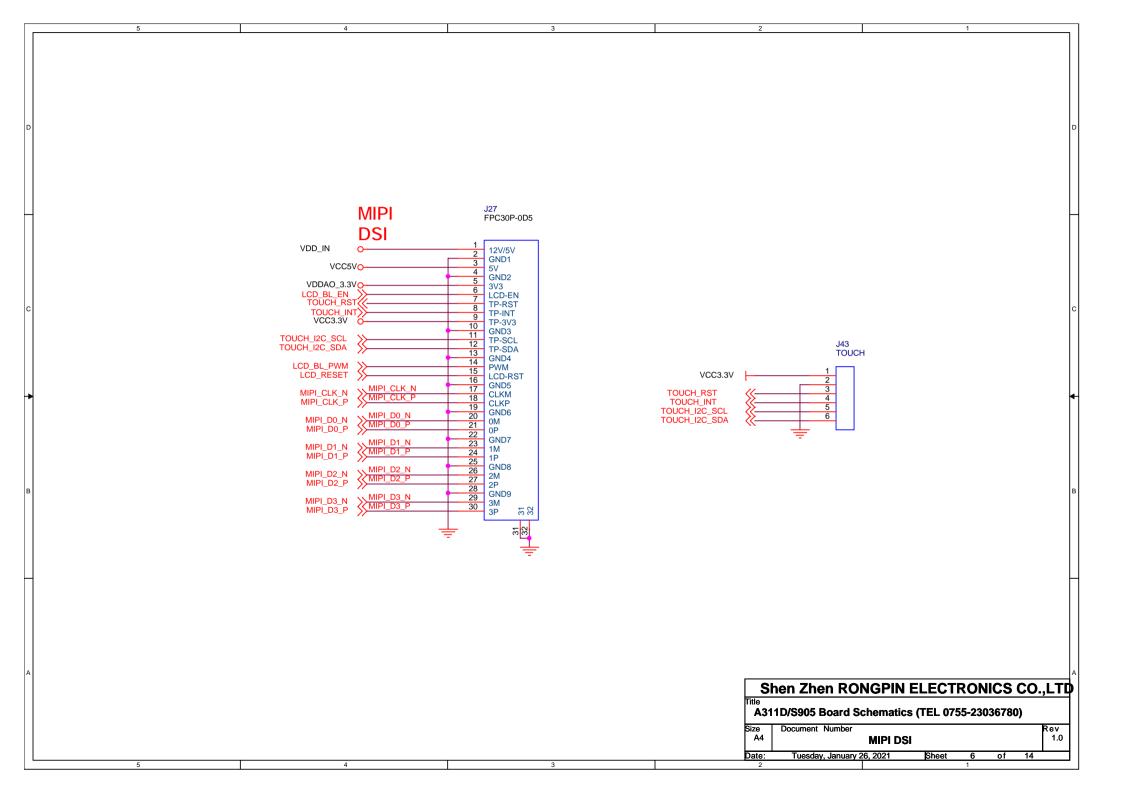
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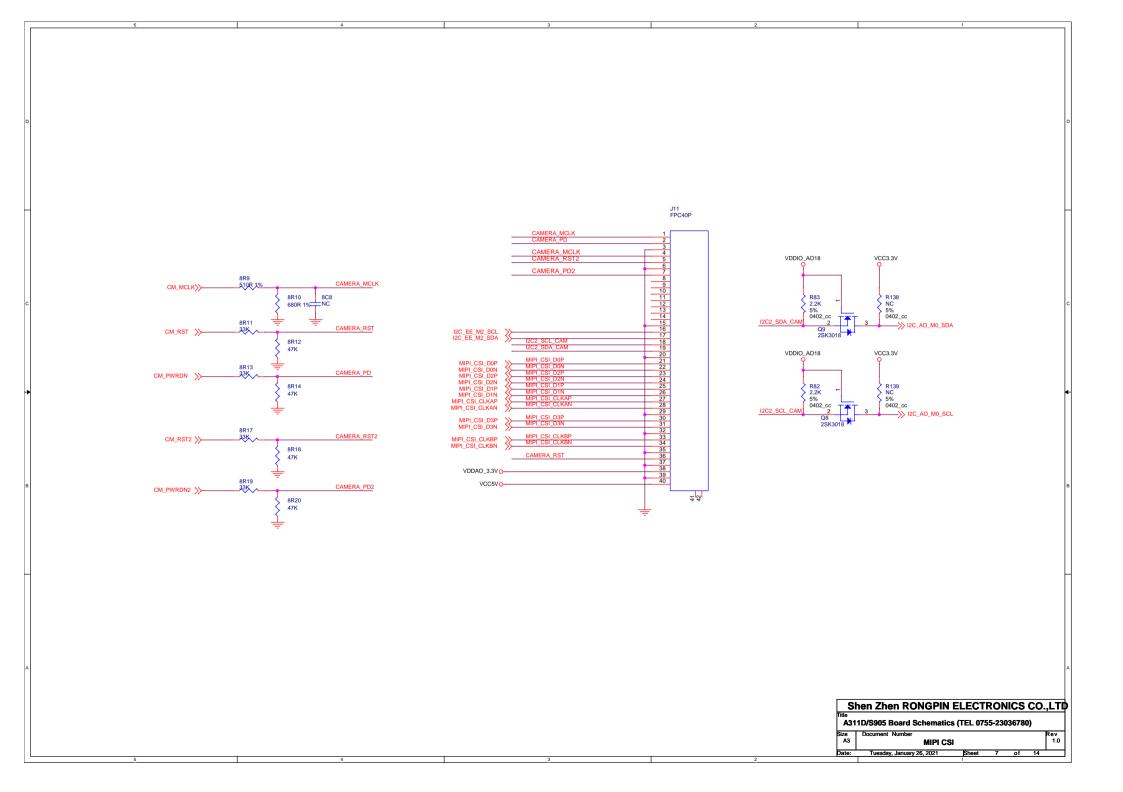


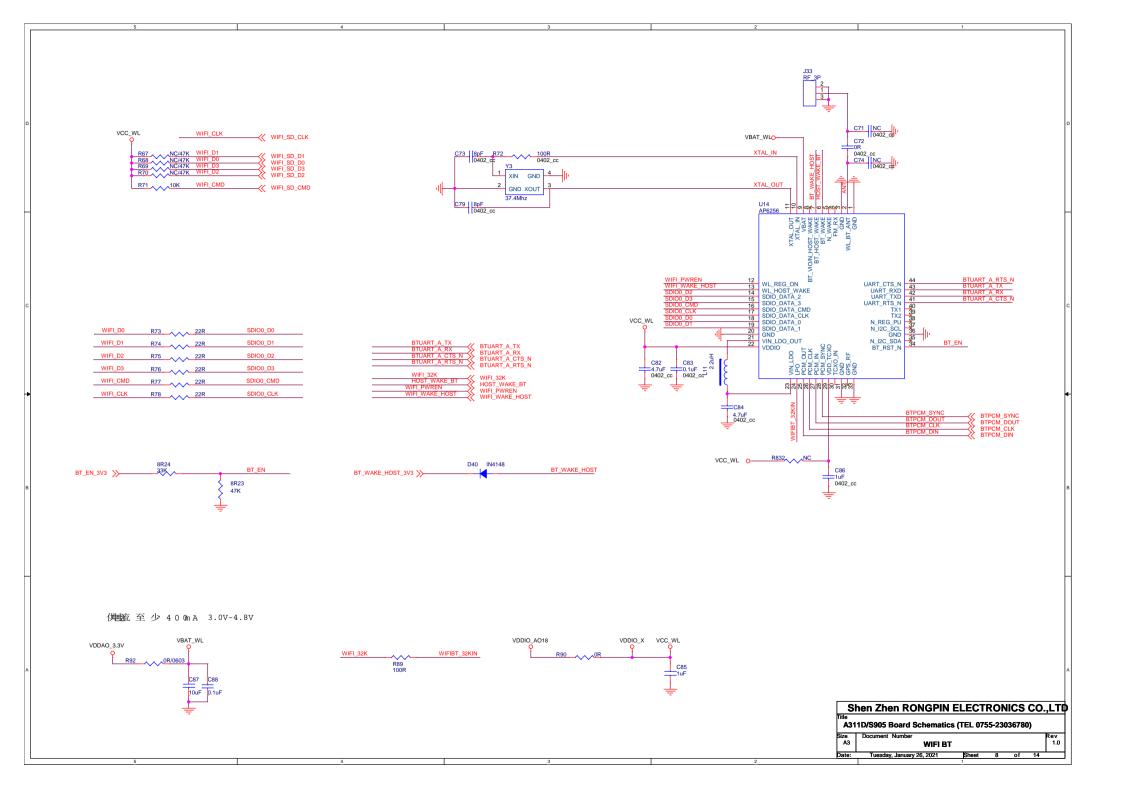


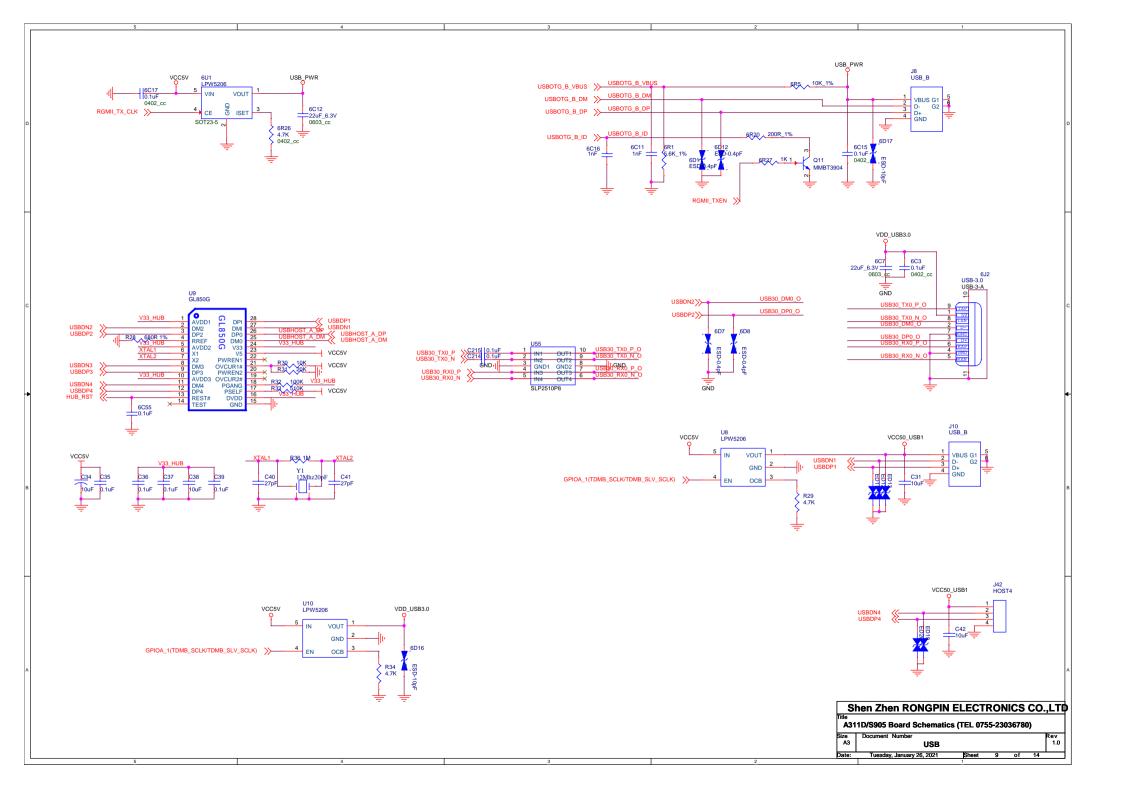




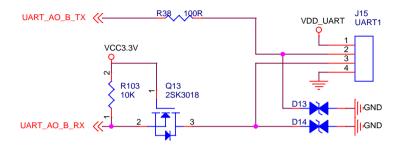








## **TTL UART4**



# For linux debug

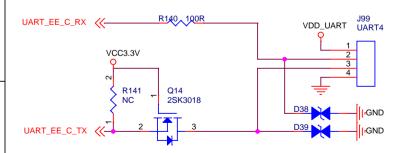
VDD\_UART

R113 0R/0603

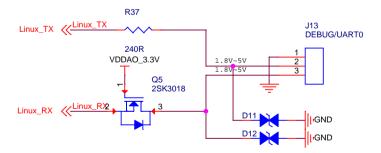
R114 NC/0603

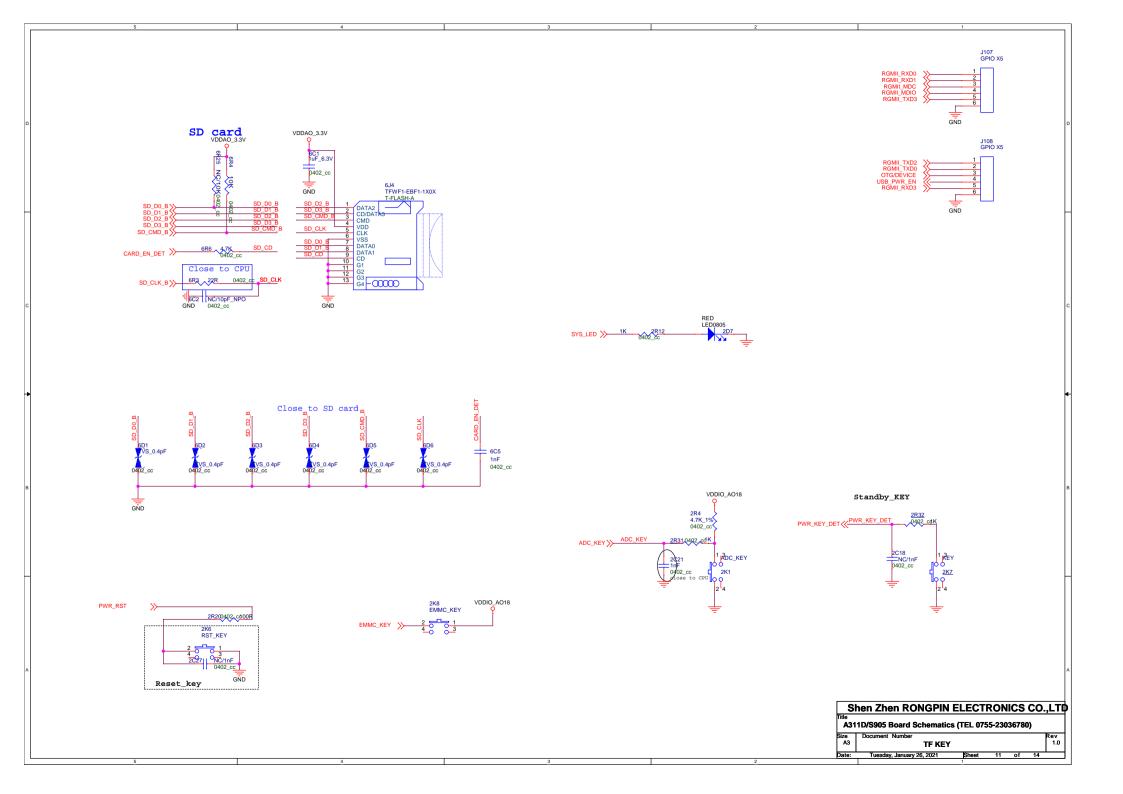
VCC5V

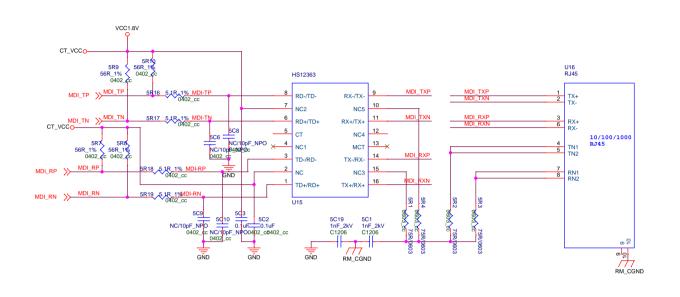
VCC3.3V



**TTL UART3** 









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A311D/S905 Board Schematics (TEL 0755-23036780)

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