

| Sheet # | Content                   | Sheet # | Content |
|---------|---------------------------|---------|---------|
| 01.     | Table of Content          |         |         |
| 02.     | L218 Module and Accessory |         |         |
| 03.     | Sim Card                  |         |         |
| 04.     | UART Port                 |         |         |
| 05.     | Audio                     |         |         |

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Title

Sheet

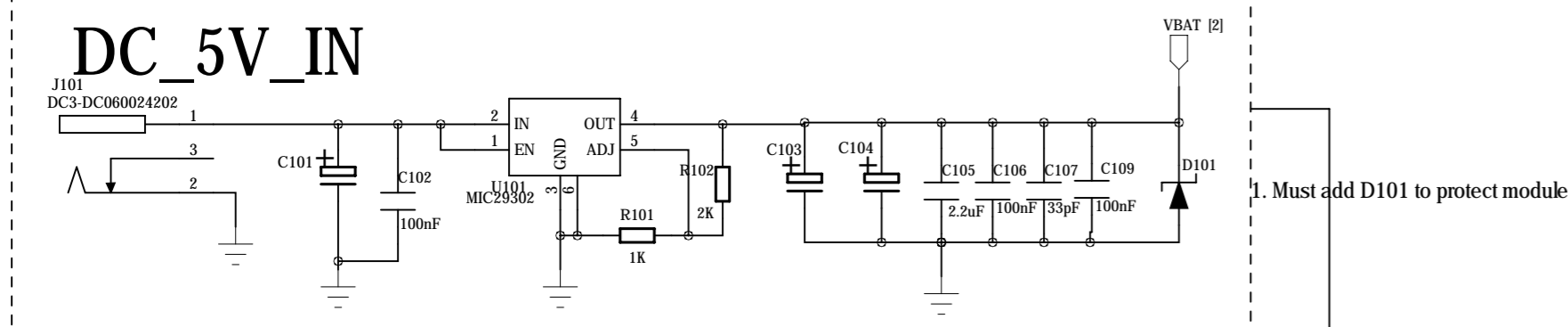
Rev

Date:

Sheet of

# POWER SUPPLY

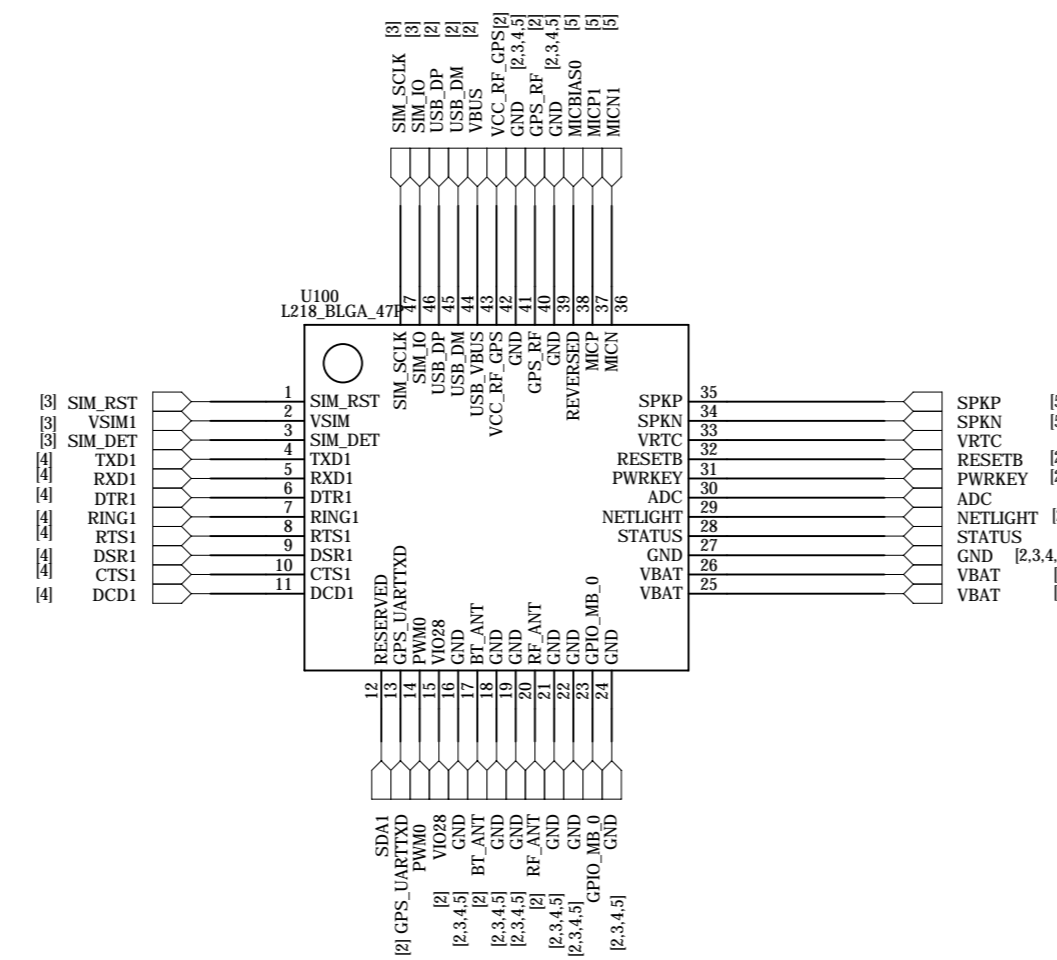
Note#  
The voltage converter should provide current at least 2.0A.  
It is used when the DC input voltage is below 7V.



1. VBAT ranges from 3.4V to 4.2V we strongly suggest use 3.8V.
2. Module drains the maximum current around 2.0A in burst time (577us). It's will cause the Voltage drop about 350mV.
3. The width of VBAT trace is recommended to be more than 2mm.
4. Capacitance is arranged in ascending order, the smallest one closes to the VBAT pad, and keep all capacitance as close to the VBAT pad as possible.

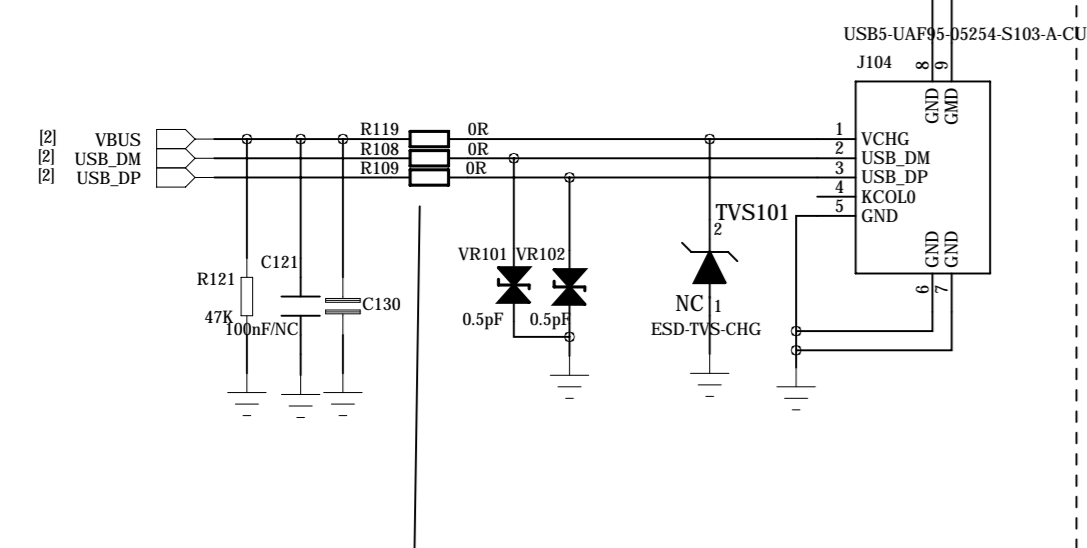
1. Must add D101 to protect module

# L218 MODULE



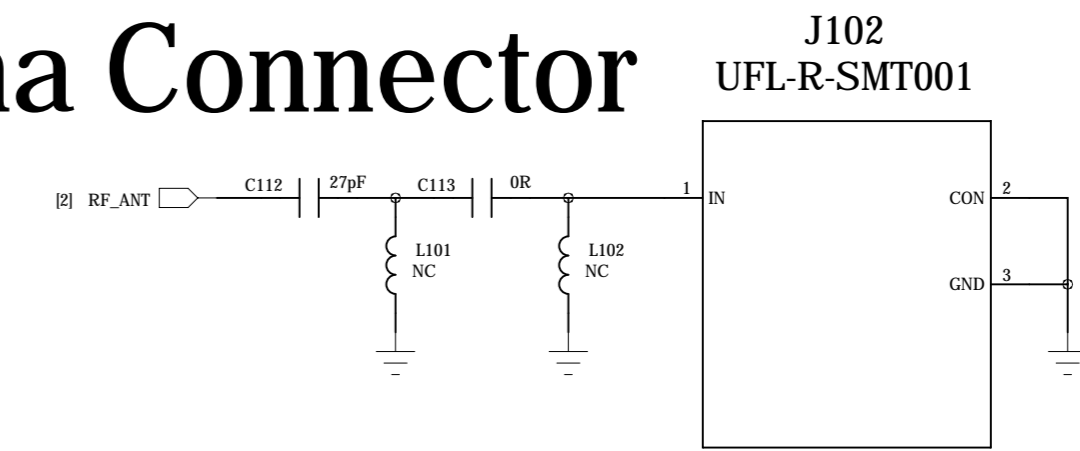
# USB\_CONNECTOR

NOT Support usb charge

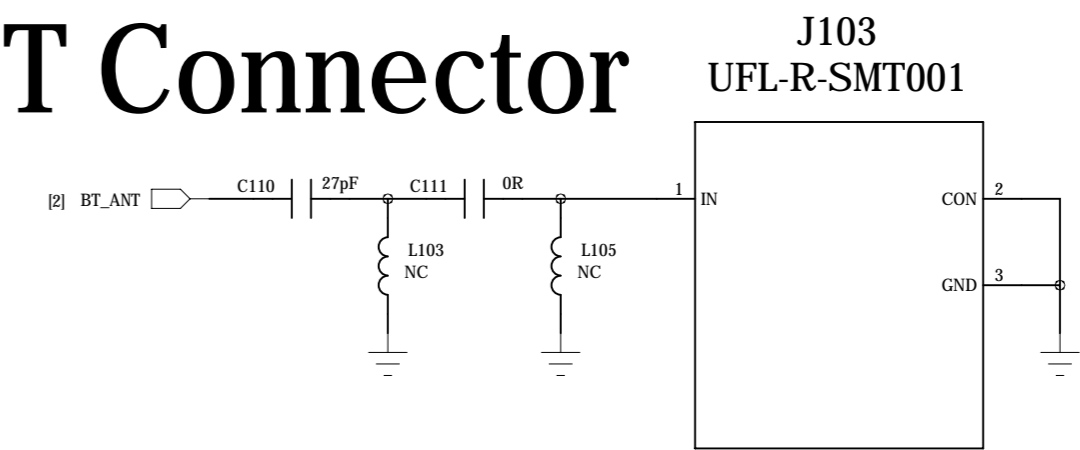


1. VR101/VR102 must be less than 2pF about junction capacitance
2. USB 2.0 High Speed, the USB\_DM and USB\_DP must route 90 ohm differential
3. Recommended that the rated voltage of the capacitance on the Vbus net is 25V.

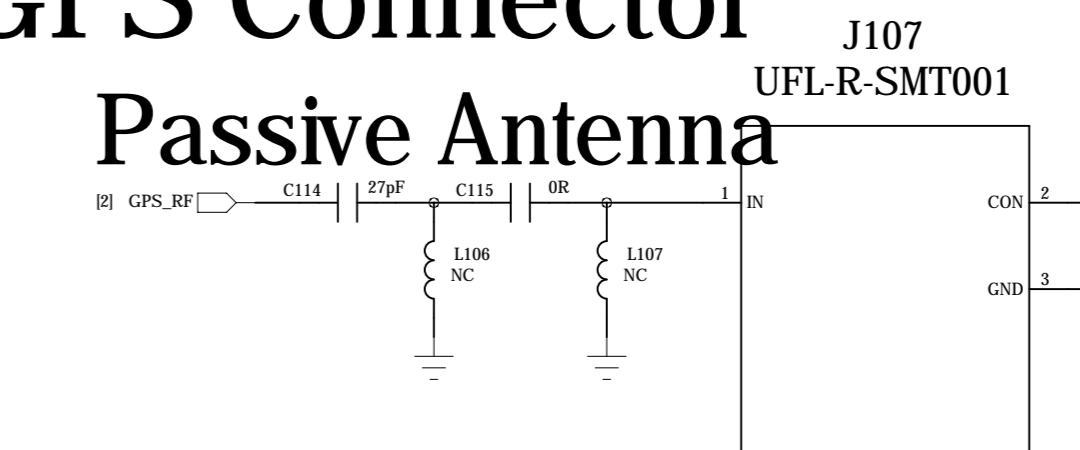
# Antenna Connector



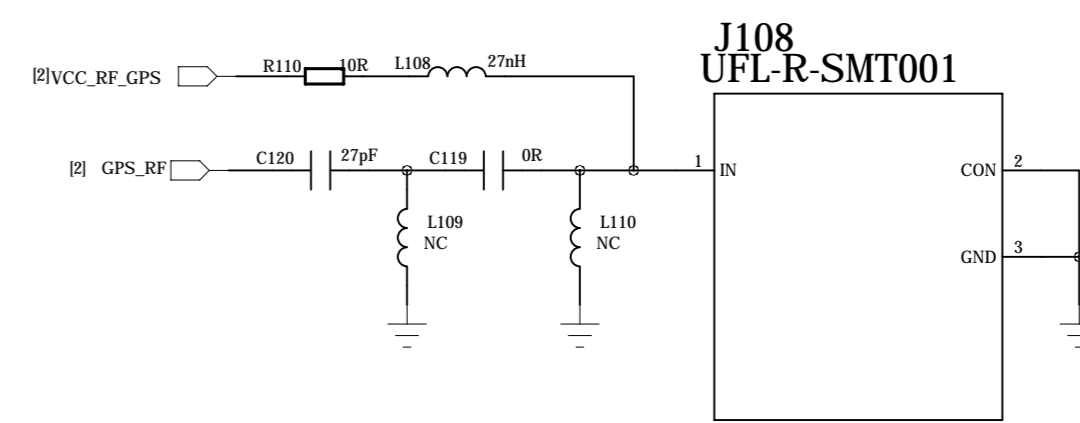
# BT Connector



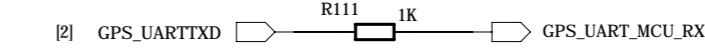
# GPS Connector



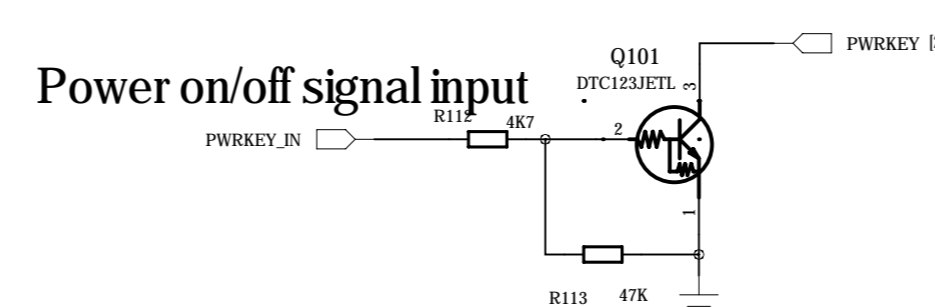
# Active Antenna



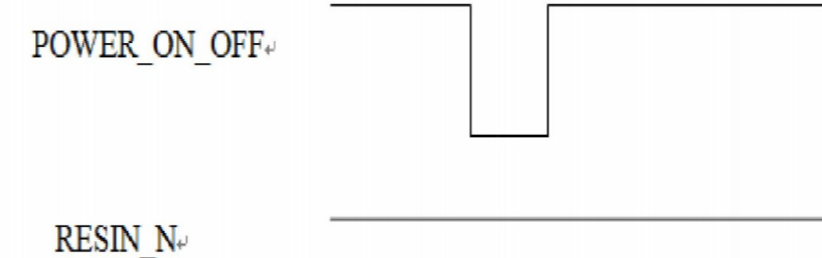
# GPS TX Signal Output



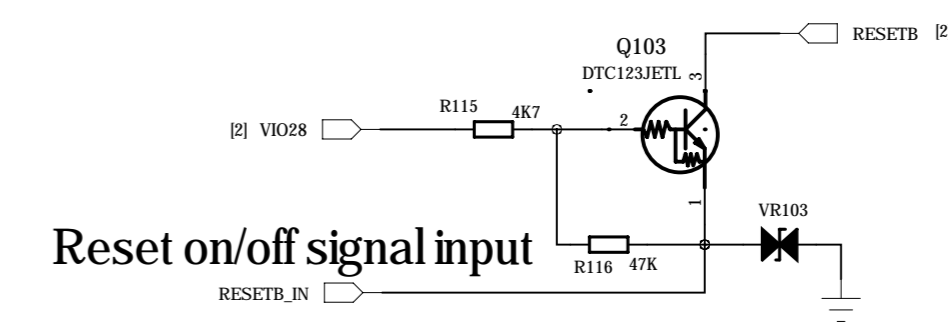
# POWER ON/OFF



Note#  
The module power on sequence must after the MCU and the power on diagram as below timing chart  
As shown in figure, Application processors need to control the formation of POWER\_ON\_OFF pulse, the pulse width should be in 2 seconds or so.

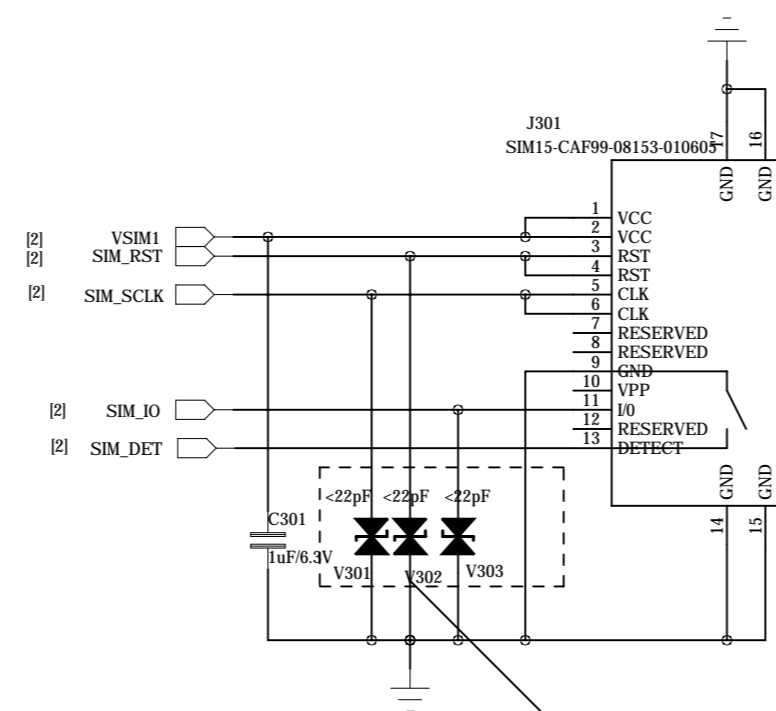


# RESET KEY



Note#  
Reset active low input must keep above 105ms

# SIM CARD



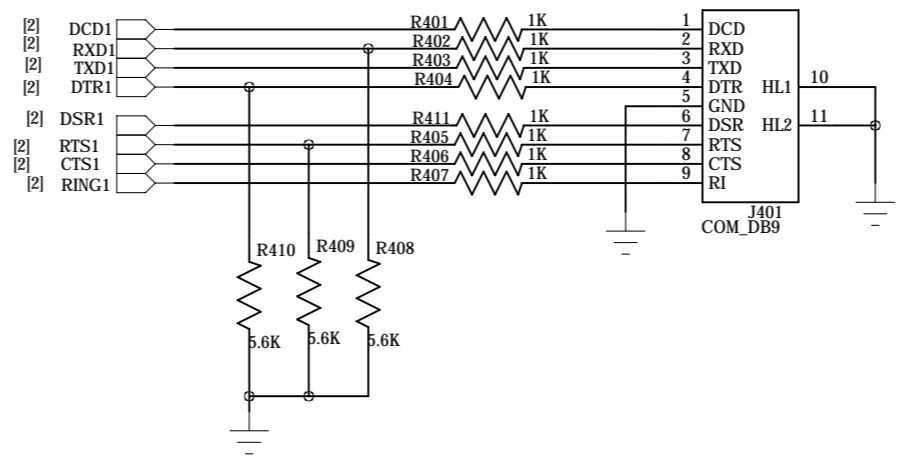
The ESD should placed close to the SIM Socket, and ESD typical capacitance must below 30pF

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| <p>1</p>  |             | <p>Sheet of</p>  |            |

# UART PORT1

Client RX should connected to the module TX, for detail please refer the hardwar document

Client TX should connected to the module RX, for detail please refer the hardwar document



Connection of All Functional UART Port for 3.3V System

- Note#
1. CTS&RTS will be used for HW flow control when mass data has been sent.
  2. When AT+QSCLK=1 is set on the module, customer's application can control
  3. When DTR is set to high level, and there is no on-air or hardware interrupt, such as GPIO interrupt or data on serial port, the module will enter into sleep mode automatically.
  4. RI will output an indication signal when activity such as voice call or SMS is coming.
  5. DCD is mainly applied in modem communication (PPP), the active status represents the communication link has been set up.
  6. Please pay attention to the level match of UART in product application.

