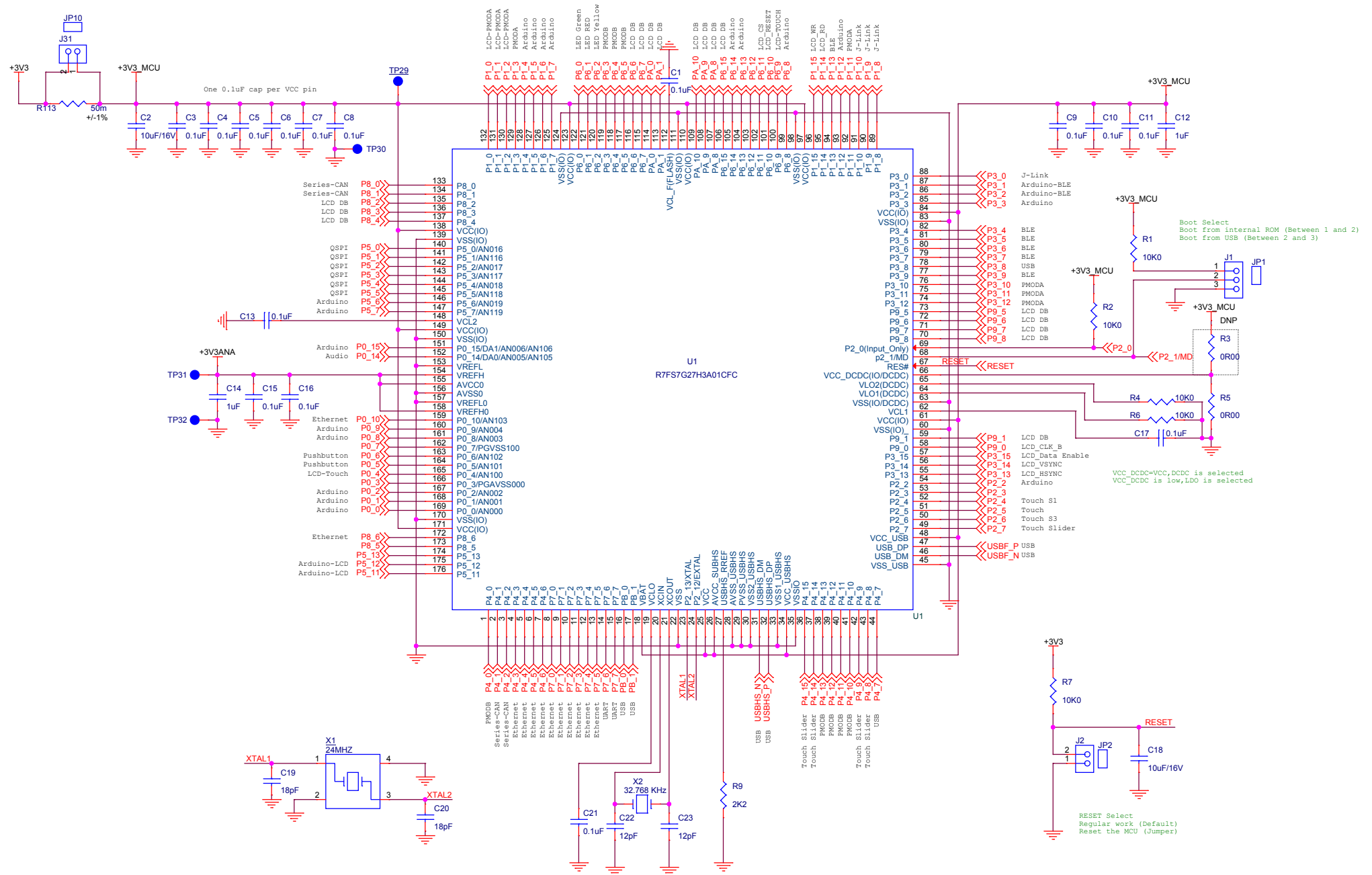


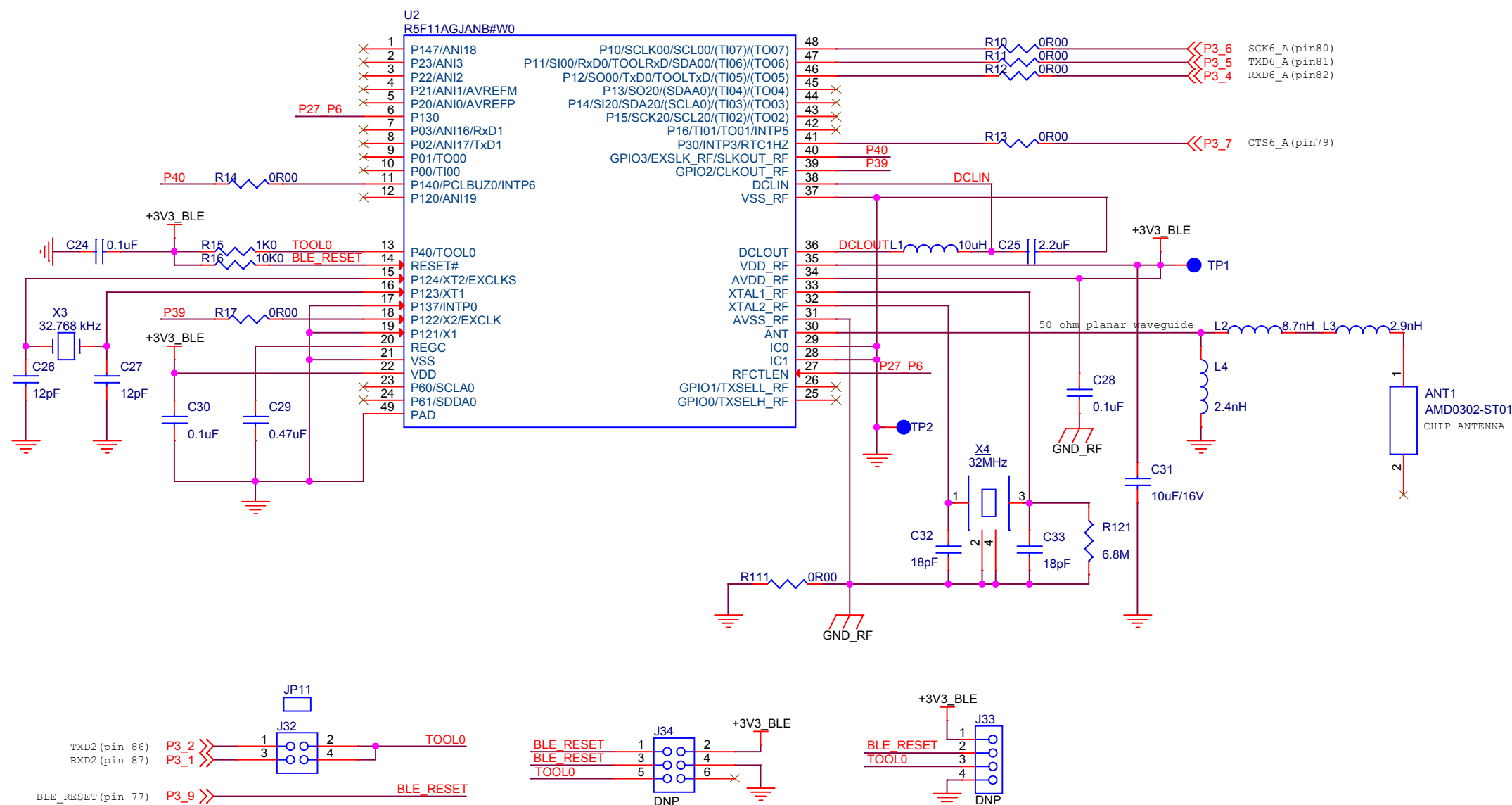
Table of Contents	
1	TITLE PAGE
2	MCU Main Signals
3	Bluetooth Low Energy
4	LCD Hot Bar Interface
5	USB Host and Device Interface
6	QSPI
7	RS232/485,CAN Interface
8	Ethernet Interface
9	Touch Sense Interface
10	PMOD Interface
11	Audio Amplifier
12	LEDs,Push Buttons
13	JTAG,J-Link On Board with RX621
14	SC32 MCU Breakout Pins
15	Arduino Shield
16	Power Supplies

Rev. Code	Date	Description
V0.5	04/14/2015	Initial Draft
V0.6	05/14/2015	
	08/05/2015	- DNP the resistors:R20,R26,R28. - Place the resistors:R19,R22,R29. - Cut the tray from J3 pin 14 to U3 pin 10,Connect pin 14 of J3 to pin 2 of J14. - Cut the tray from J3 pin 17 to U3 pin 9,Connect pin 10 of U3 to pin 17 of J3. - Connect pin 9 of U3 to pin 18 of J3. - Changed U14 from RT9722BGB to AP2141DWG-7. - DNP the capacitor:C80,C81. - Changed the footprint of J17.
	08/10/2015	- Changed the RF unit oscillation circuit of U2.
	08/13/2015	- Changed the touch controller IC from XPT7603 to SX8656. - Changed the connections of LCD 4-wire SPI. - Changed the BLE power supply circuit.Add connectors to program RL78.
V3.0	12/10/2015	- Exchanged the RX and TX of Arduino connector(J27) with each other.

SK-S7G2

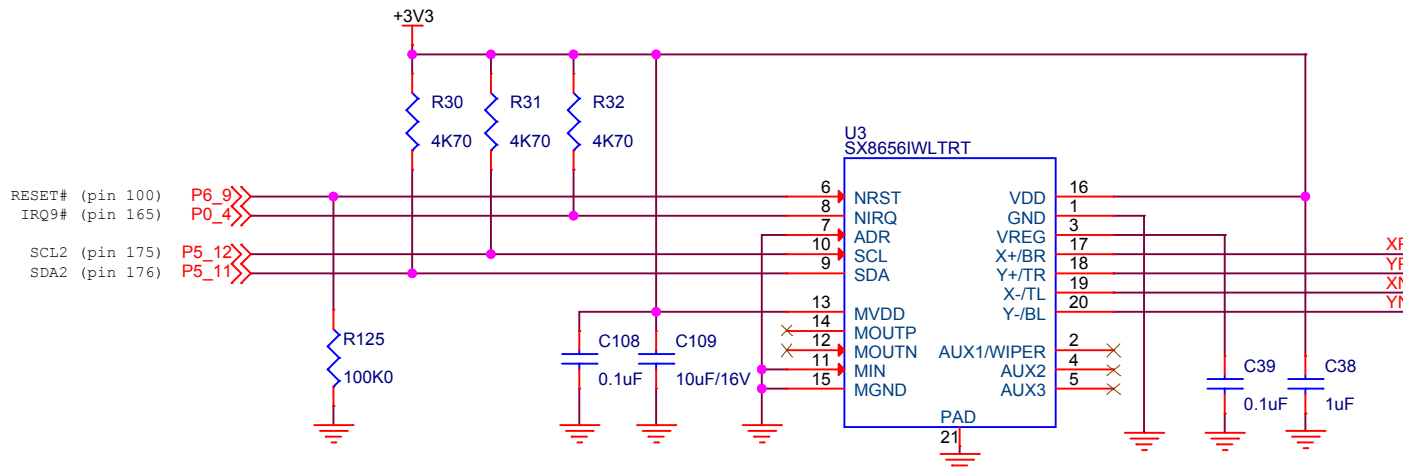
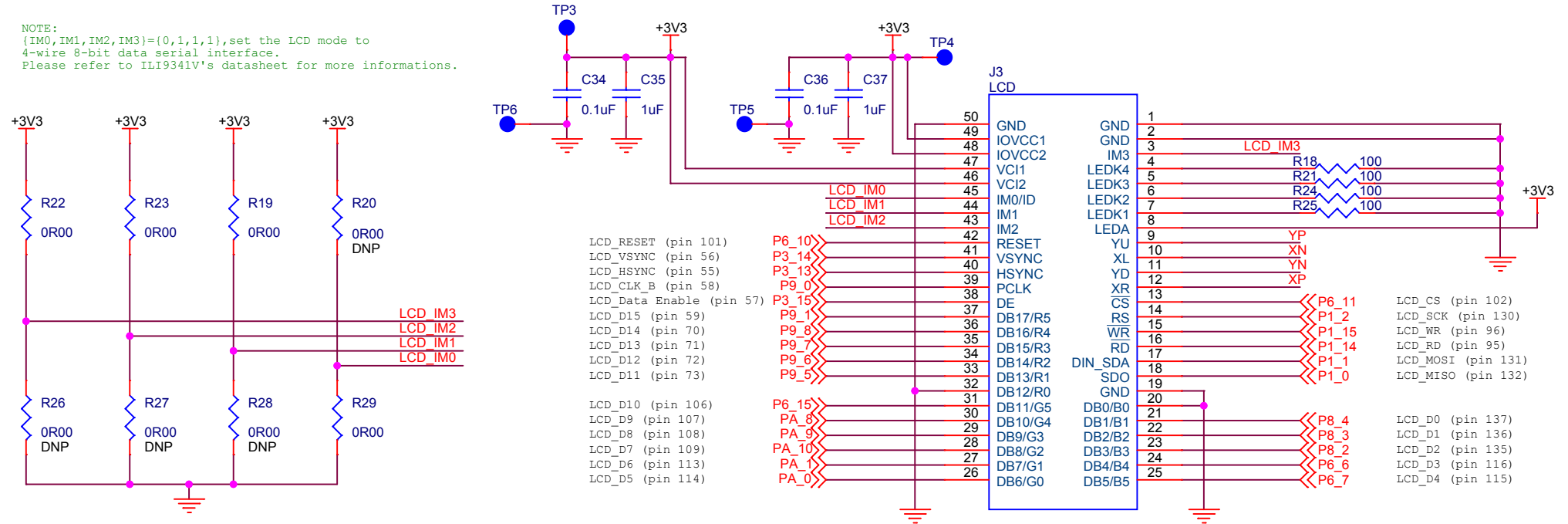


Bluetooth

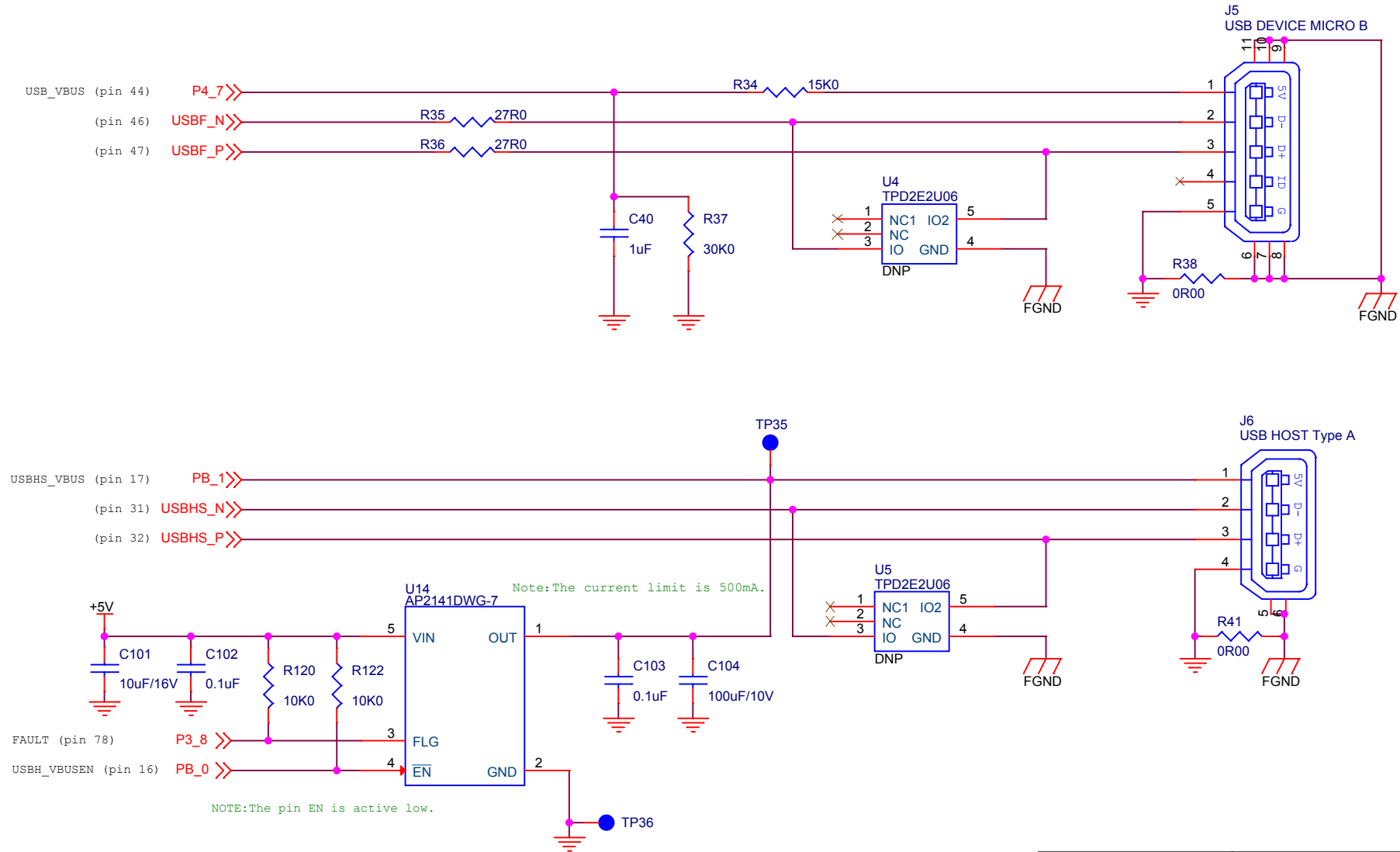


LCD

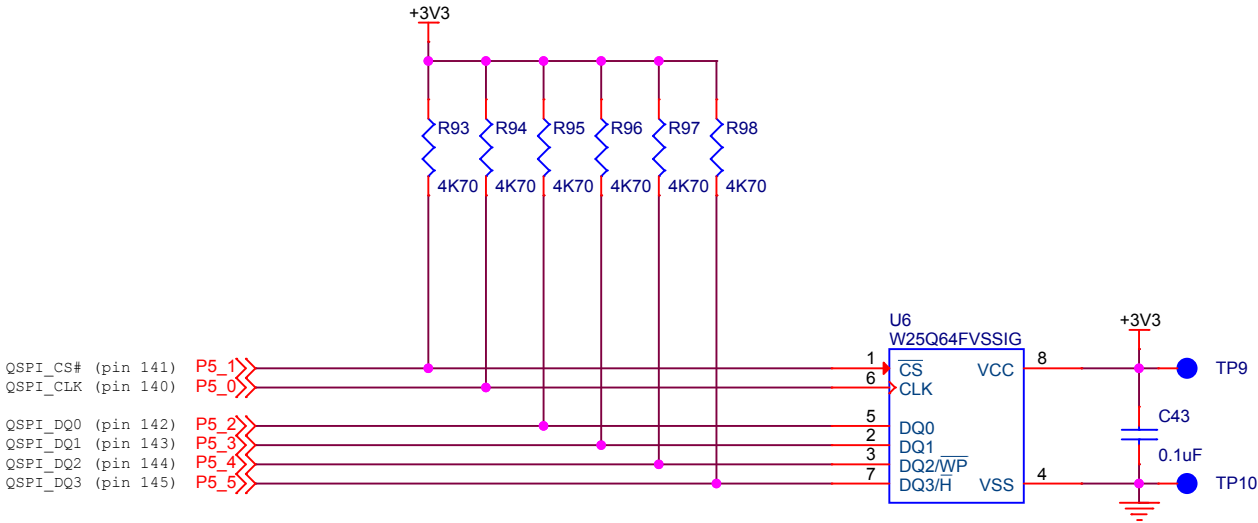
NOTE:
{IM0,IM1,IM2,IM3}={0,1,1,1},set the LCD mode to
4-wire 8-bit data serial interface.
Please refer to ILI9341V's datasheet for more informations.



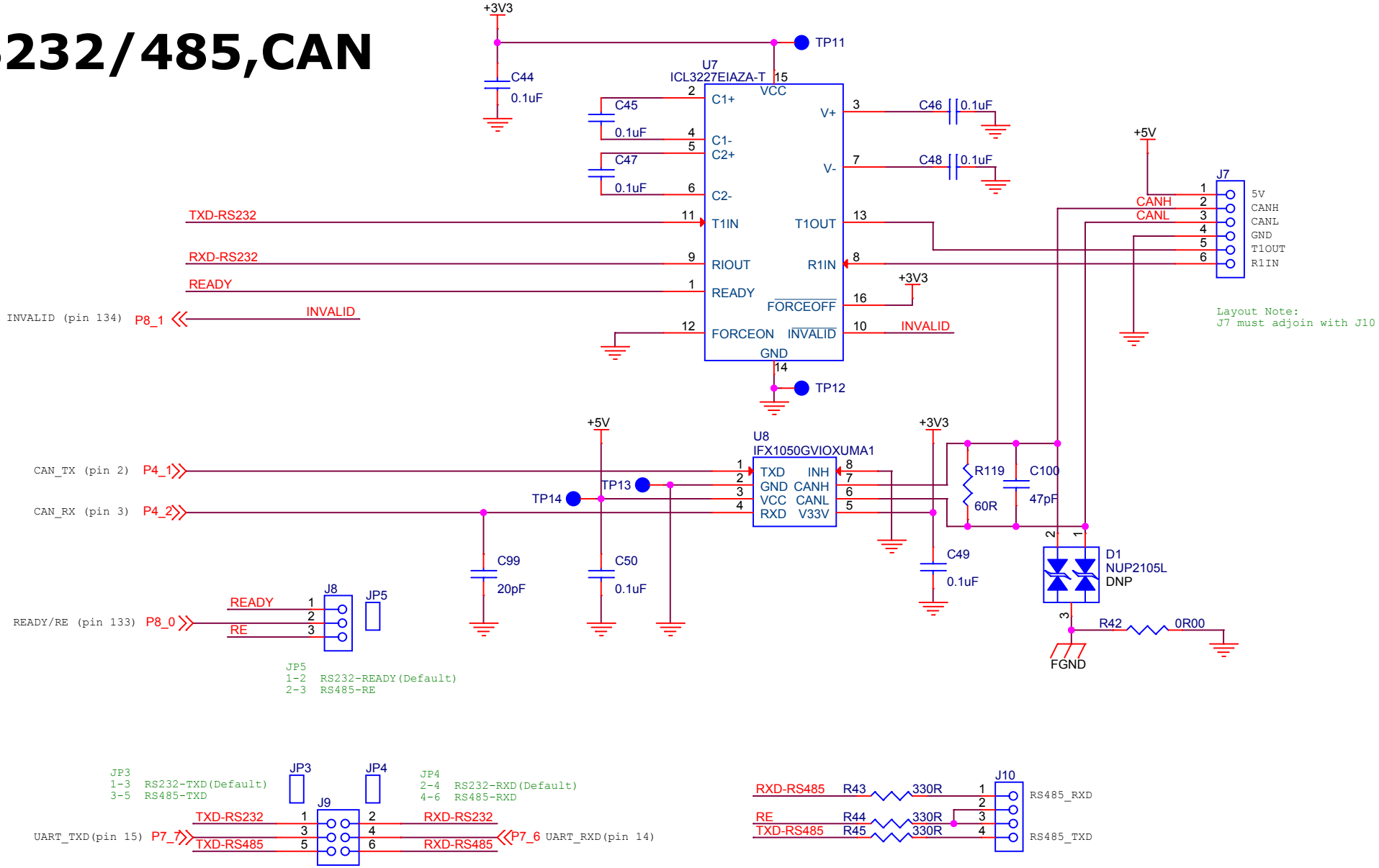
USB



QSPI



RS232/485,CAN



<http://arm.embedinfo.com>

Title: RS232/485,CAN Interface

Size: A4

Document Number: core

Rev: v3.0

Draw By: George

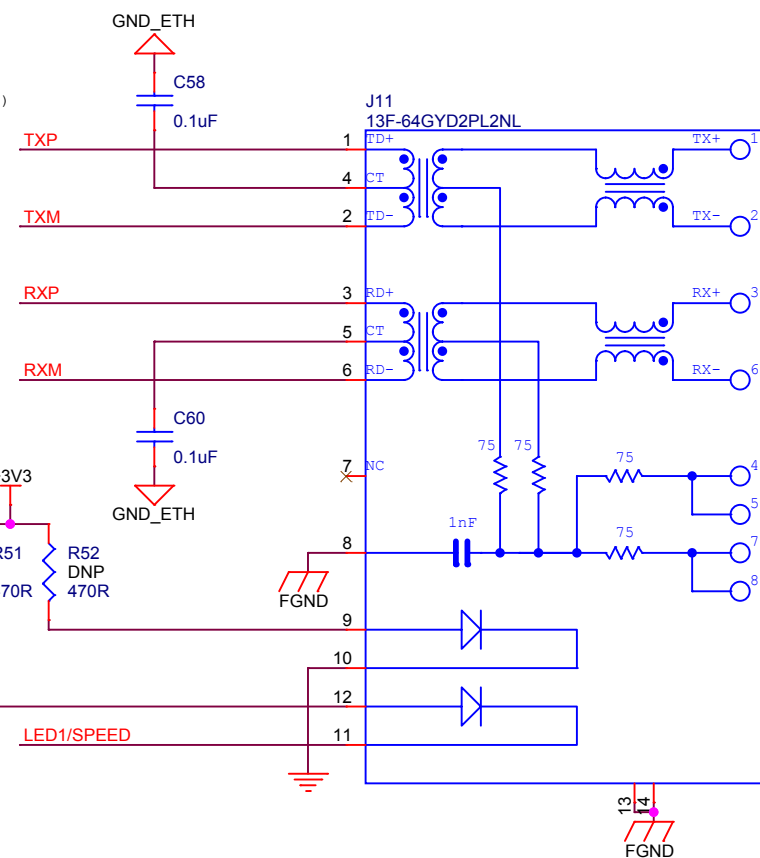
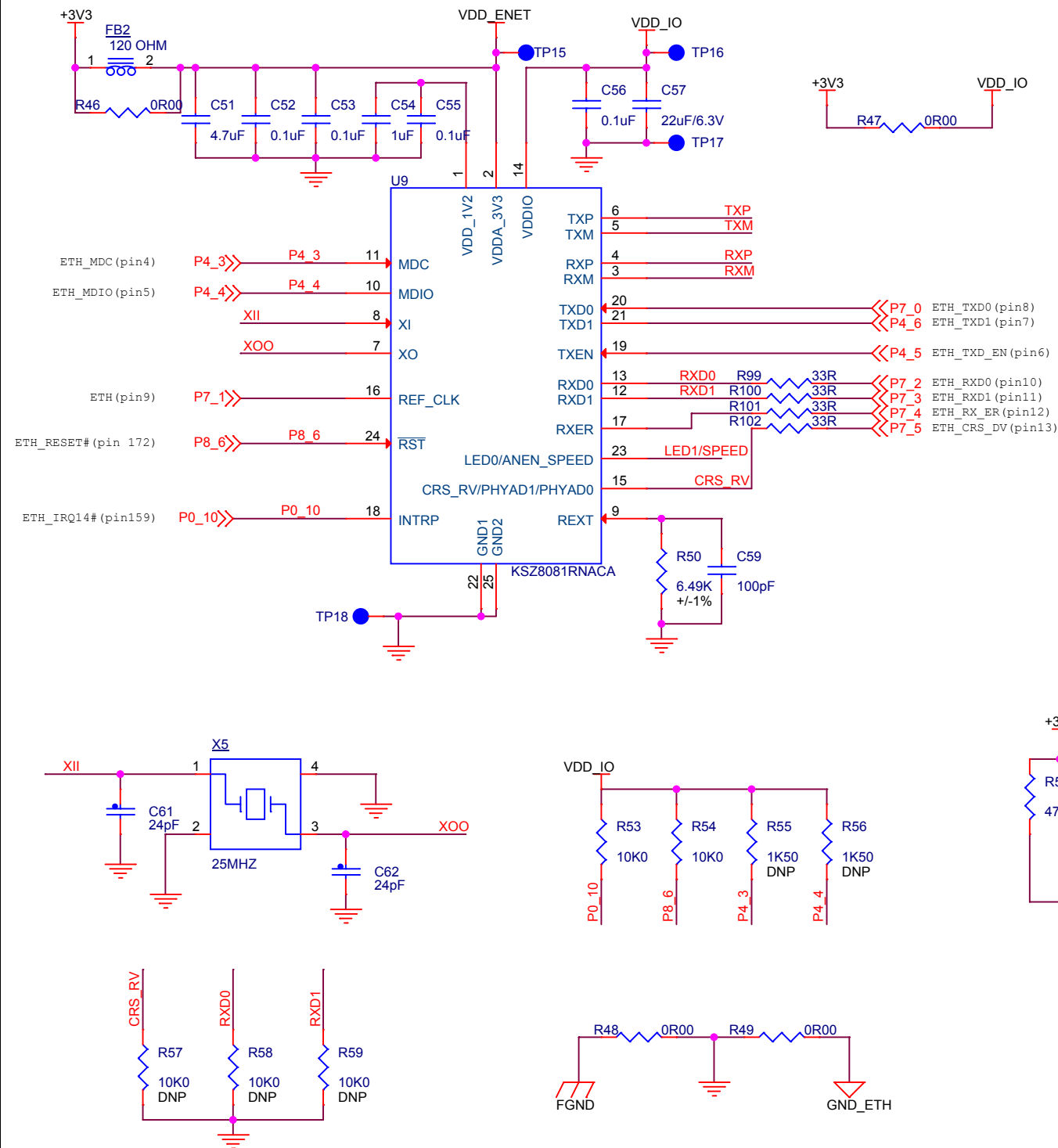
Date: Wednesday, January 06, 2016

Sheet: 7 of 16

Ethernet

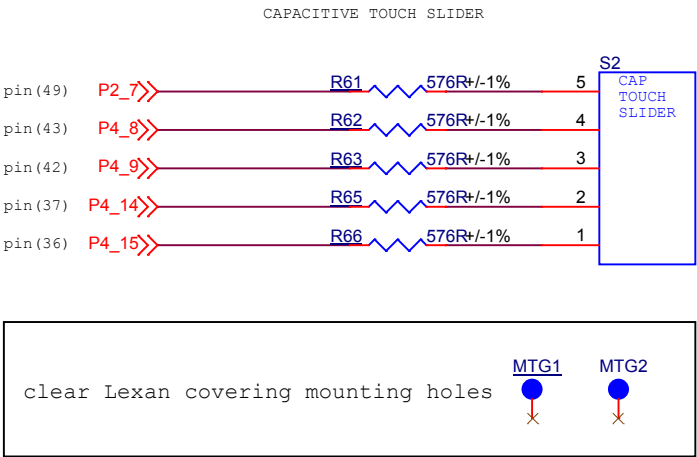
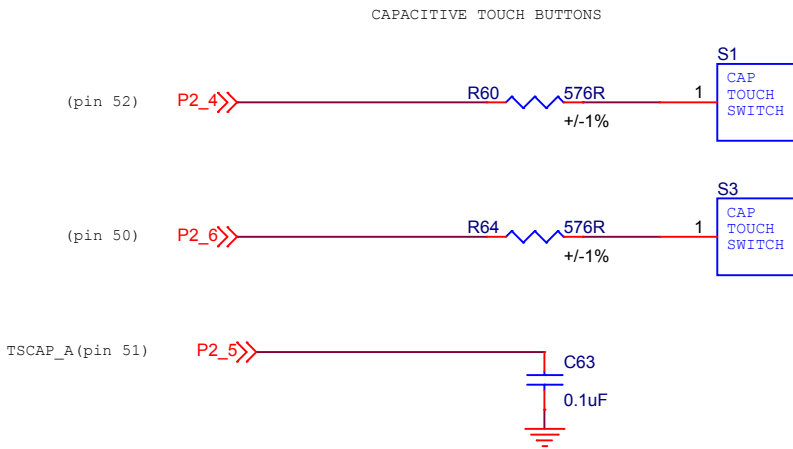
Layout NOTES:

1. The differential pair (TX+/- or RX+/-) should be routed away from all other signals and close together to use 5-mil trace width and 5-mil trace space in same length as possible with a 100ohm controlled trace.
2. Keep both traces of each differential pair as identical to each other as possible.
3. Route each differential pair on the same PCB layer. Avoid via and pad in the path.
4. Route both TX+/- and RX+/- pairs as far as away each other at least four times of 5-mil trace space.

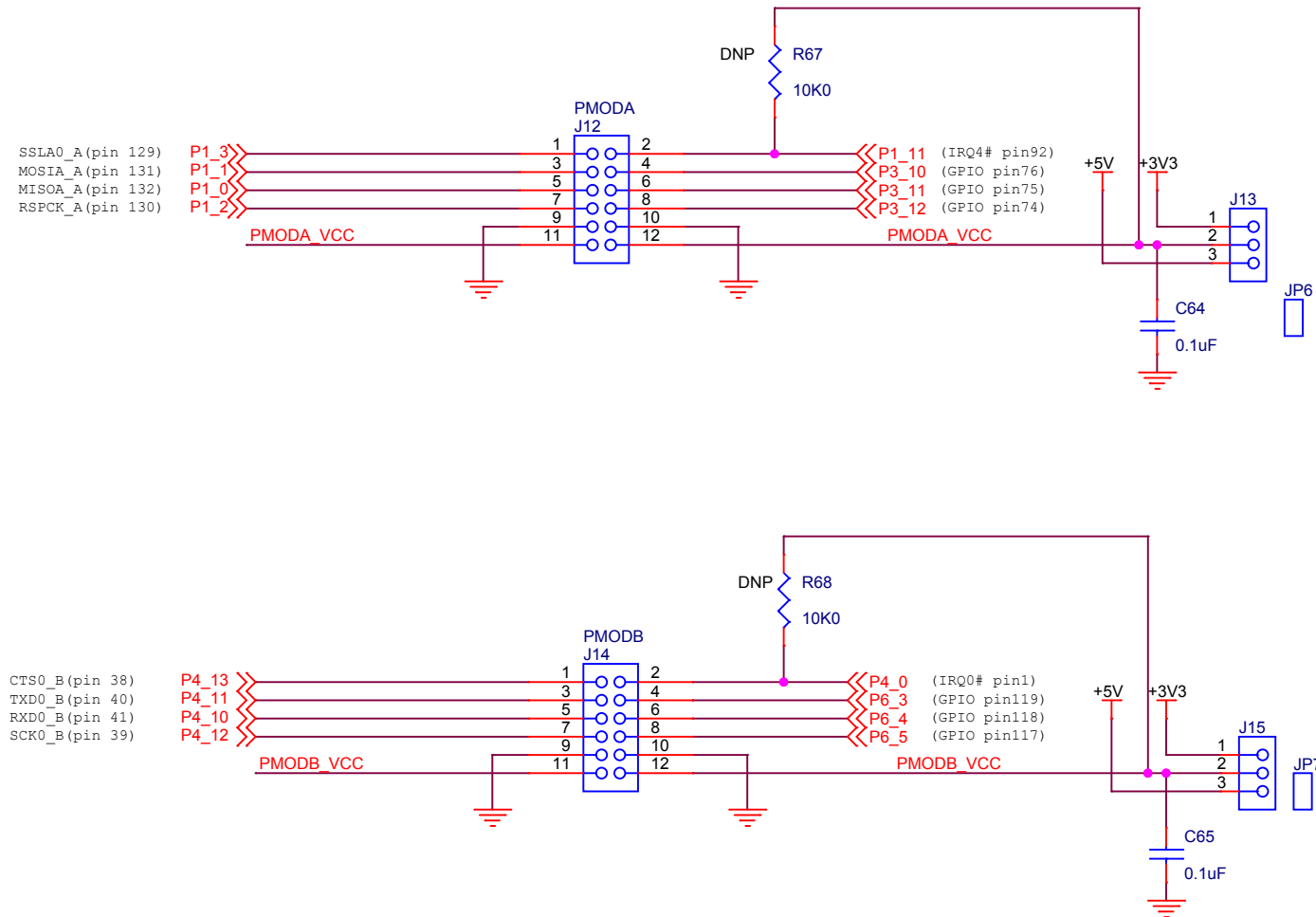


Touch

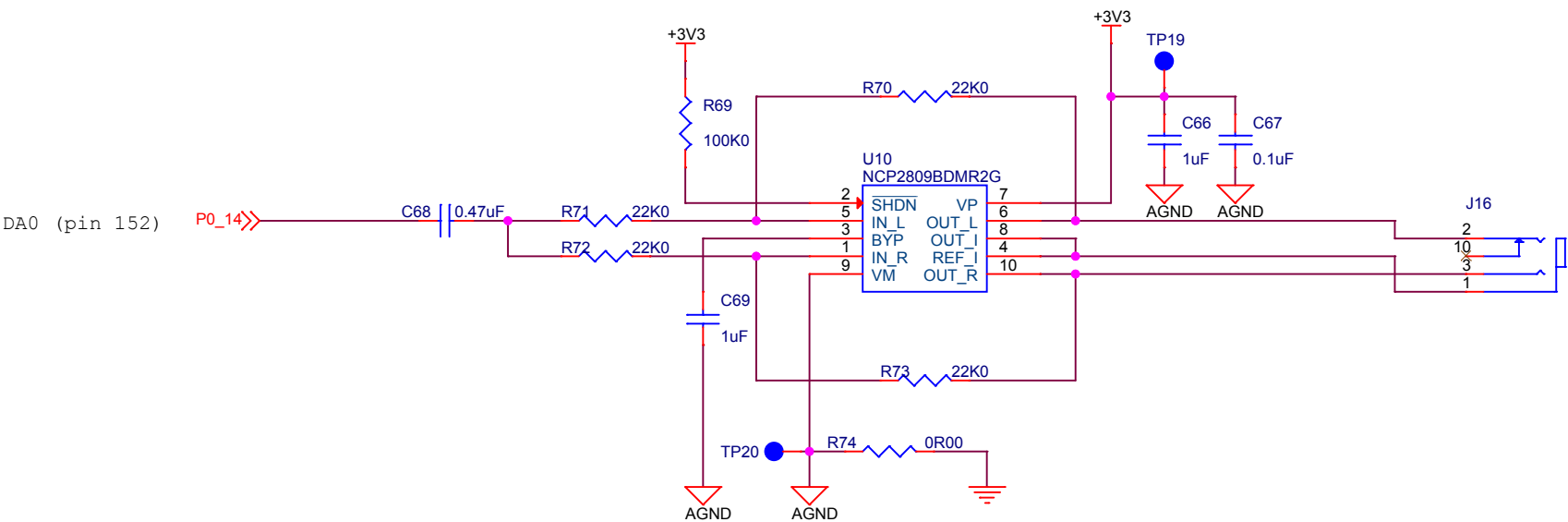
Layout NOTE:
The wiring between the electrode and the Touchsensor (TS) port should be the shortest length possible. It is recommended to separate the trace from noisy signal lines.



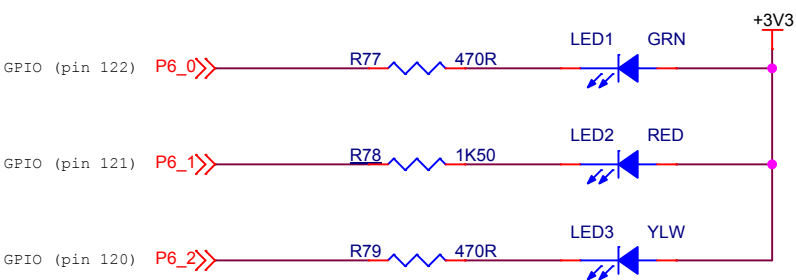
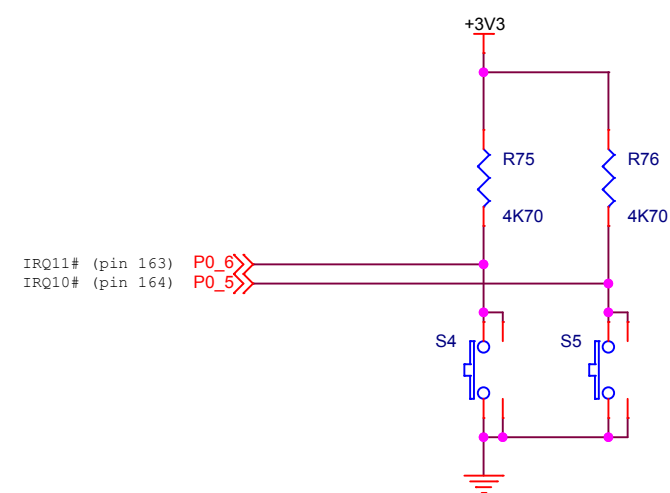
PMOD



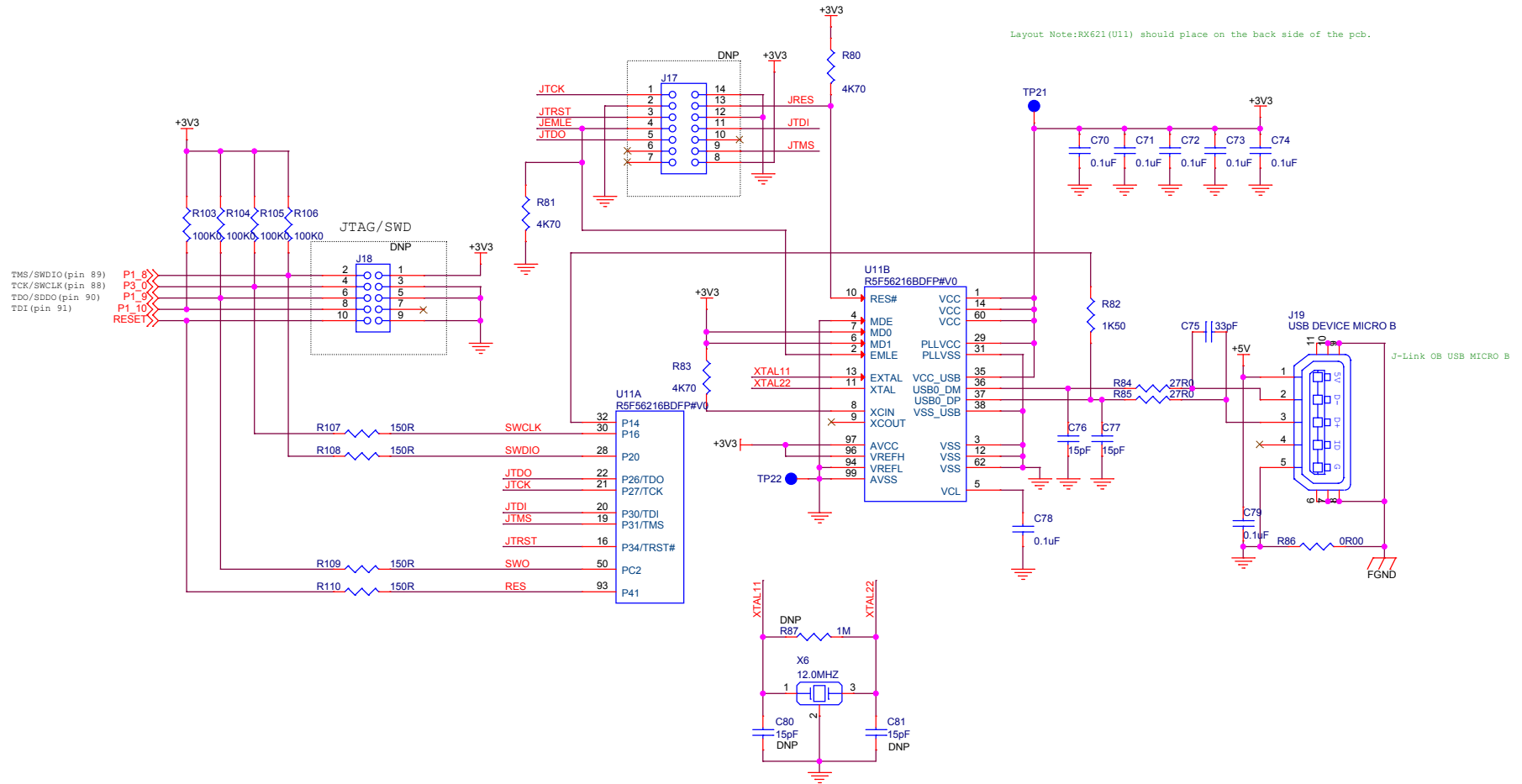
Audio



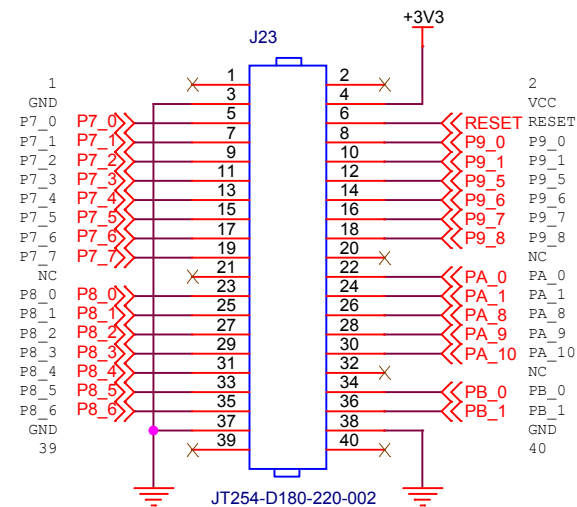
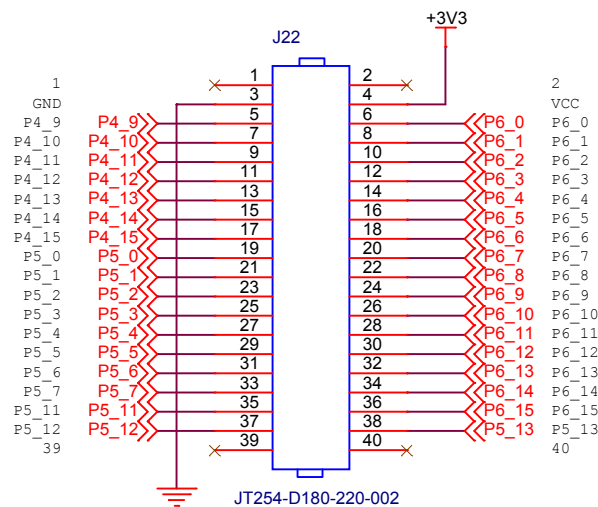
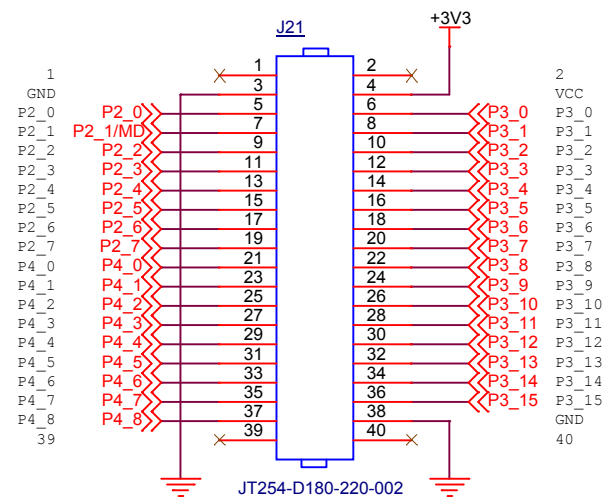
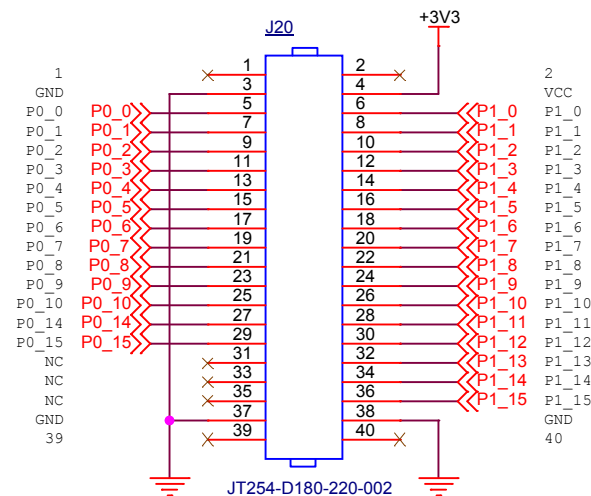
LED,Push Button



J-link

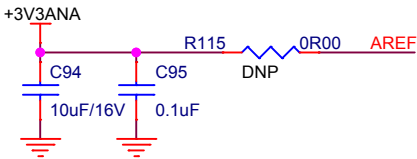
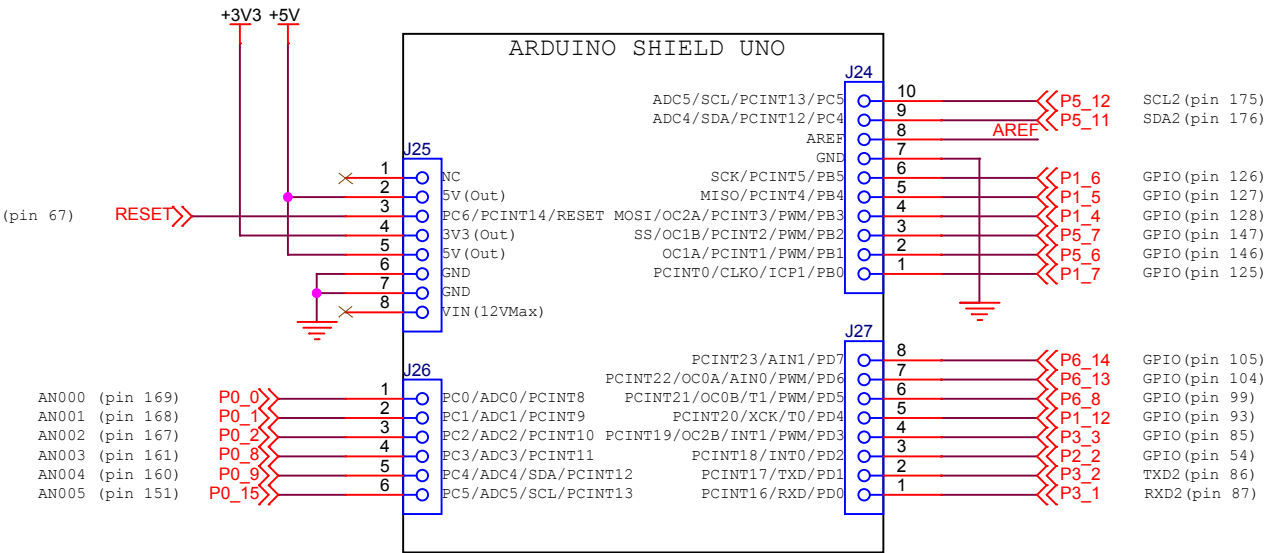


Breakout Pin

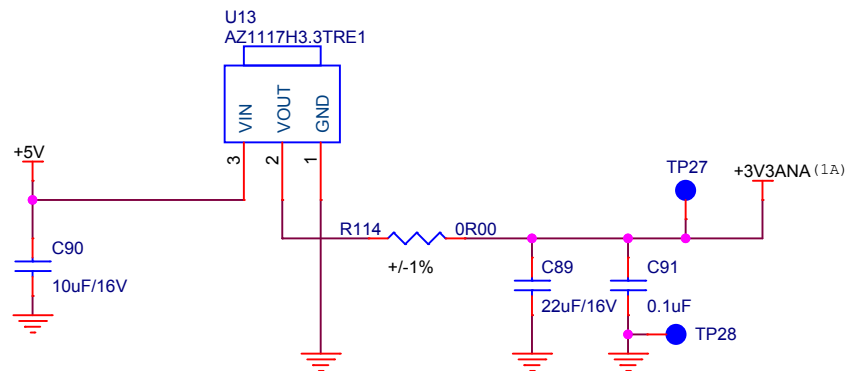
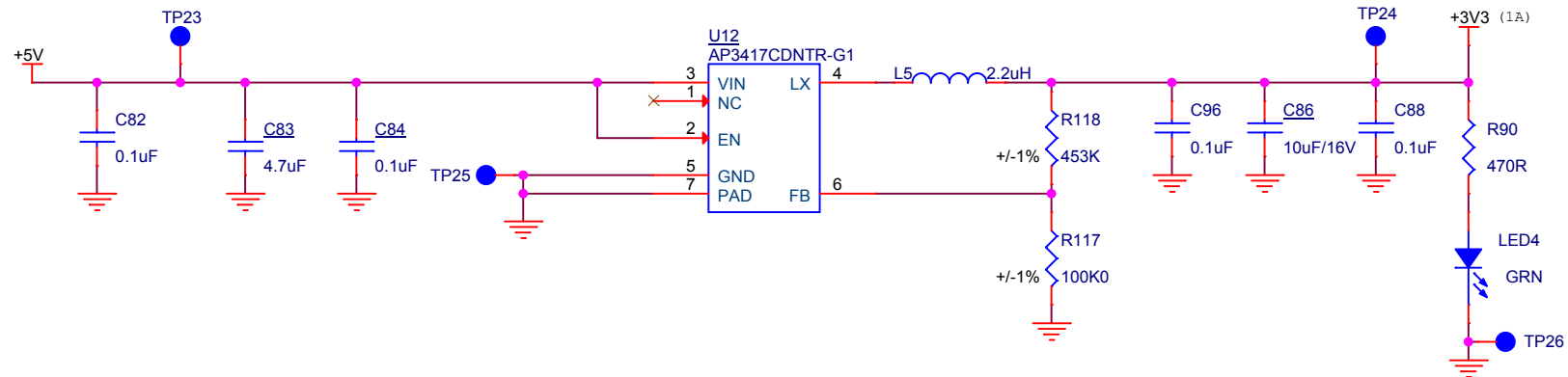


Layout Note: Place the text of each pin

Arduino



Power



BLE Power Switch

