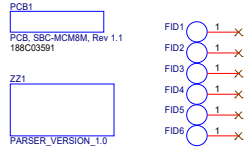
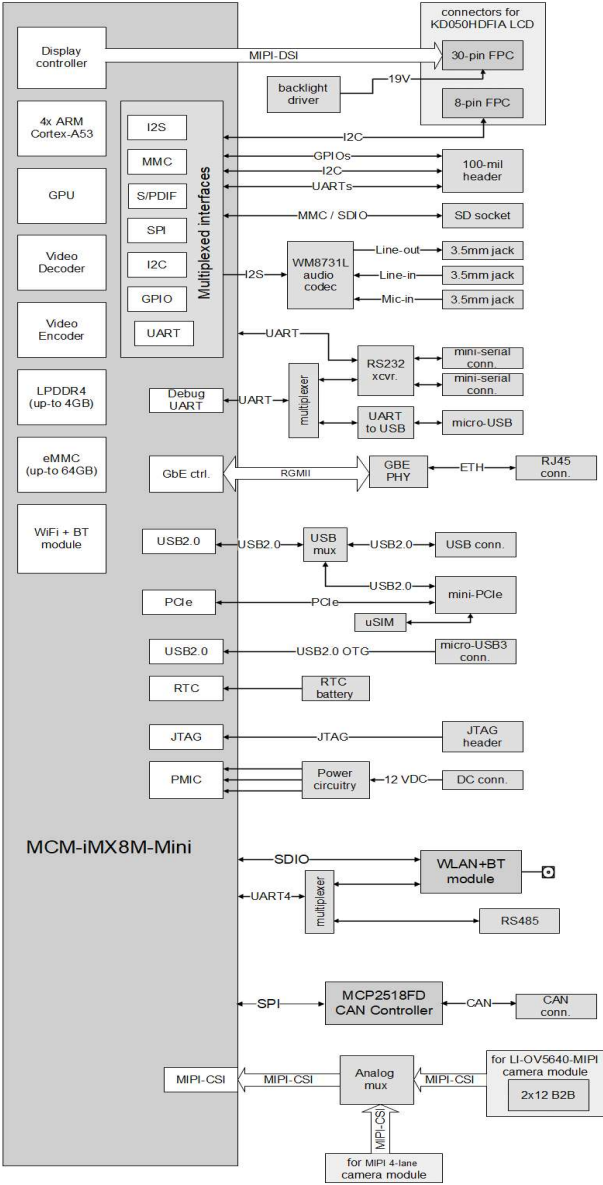


SB-MCM-MX8M

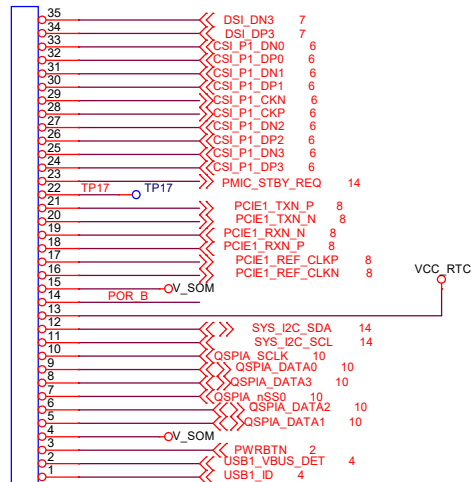
BOARD REVISION: 1.0

PAGE	DESCRIPTION
01	Index
02	Carrier-board interface
03	Gigabit Ethernet
04	USB
05	Audio
06	JTAG, CSI, GPIO expander
07	MIPI LCD
08	PCIe
09	Power
10	UART, RS232, SD, EEPROM, QSPI
11	WIFI&Bluetooth, RS485
12	ALT Boot
13	CAN interfaces
14	Mechanical,MISC connectors

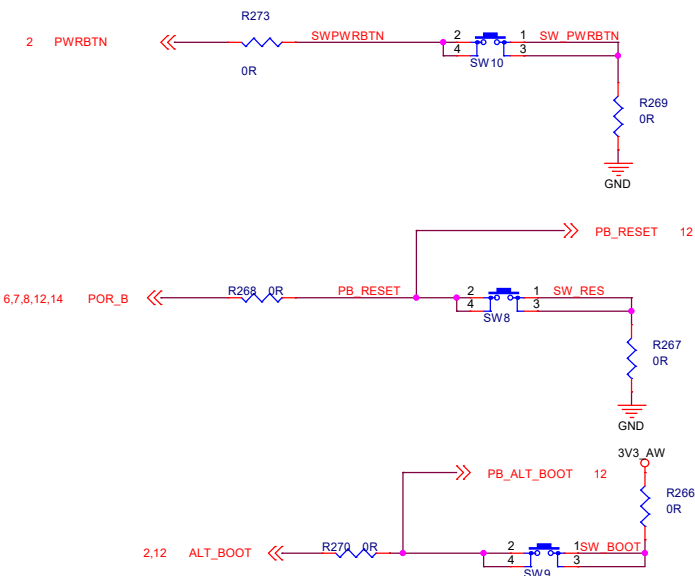


LGA-140-080-30x30

UP

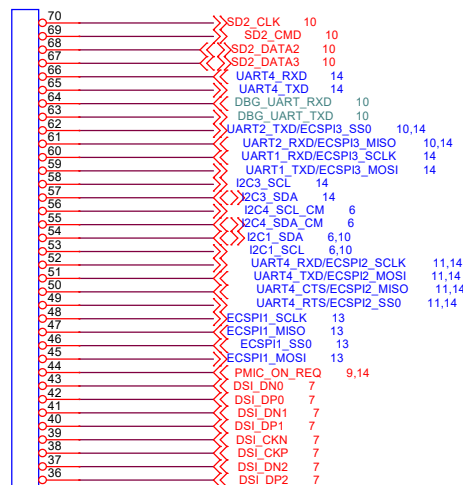


POWER/RESET/BOOT SWITCHES

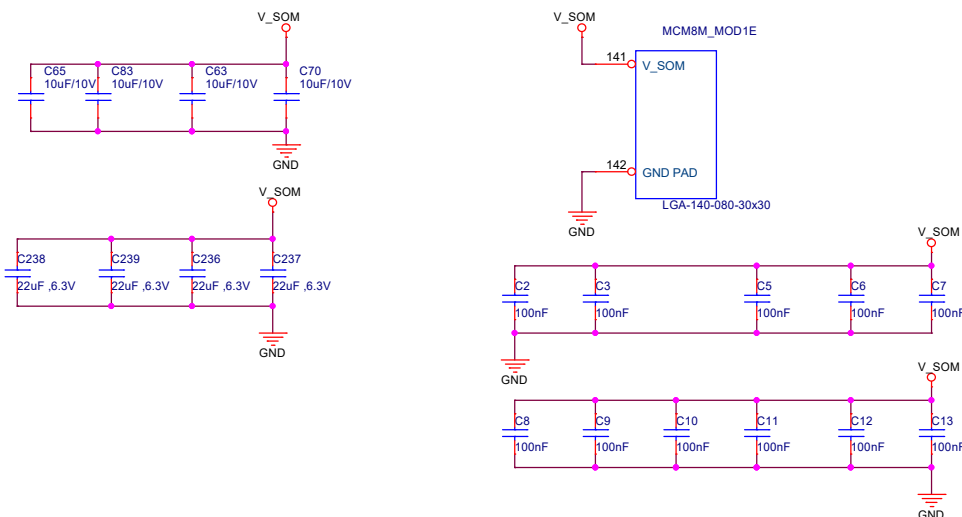


LEFT

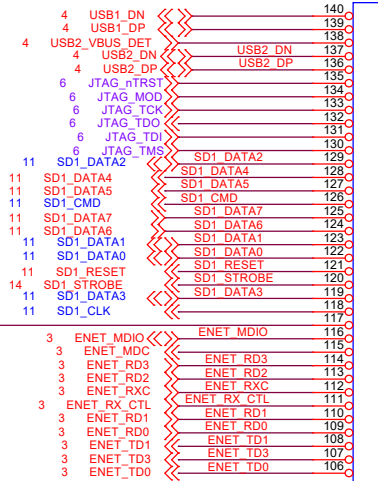
LGA-140-080-30x30



V-SOM decoupling capacitors

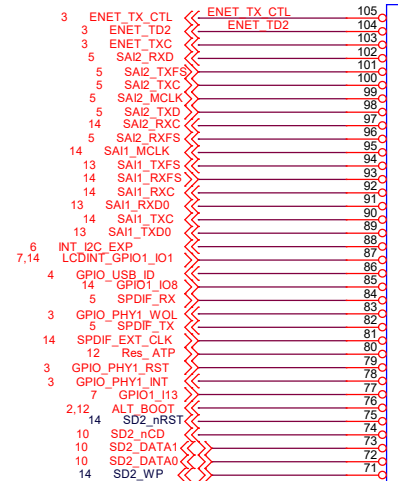


LGA-140-080-30x30



RIGHT

LGA-140-080-30x30

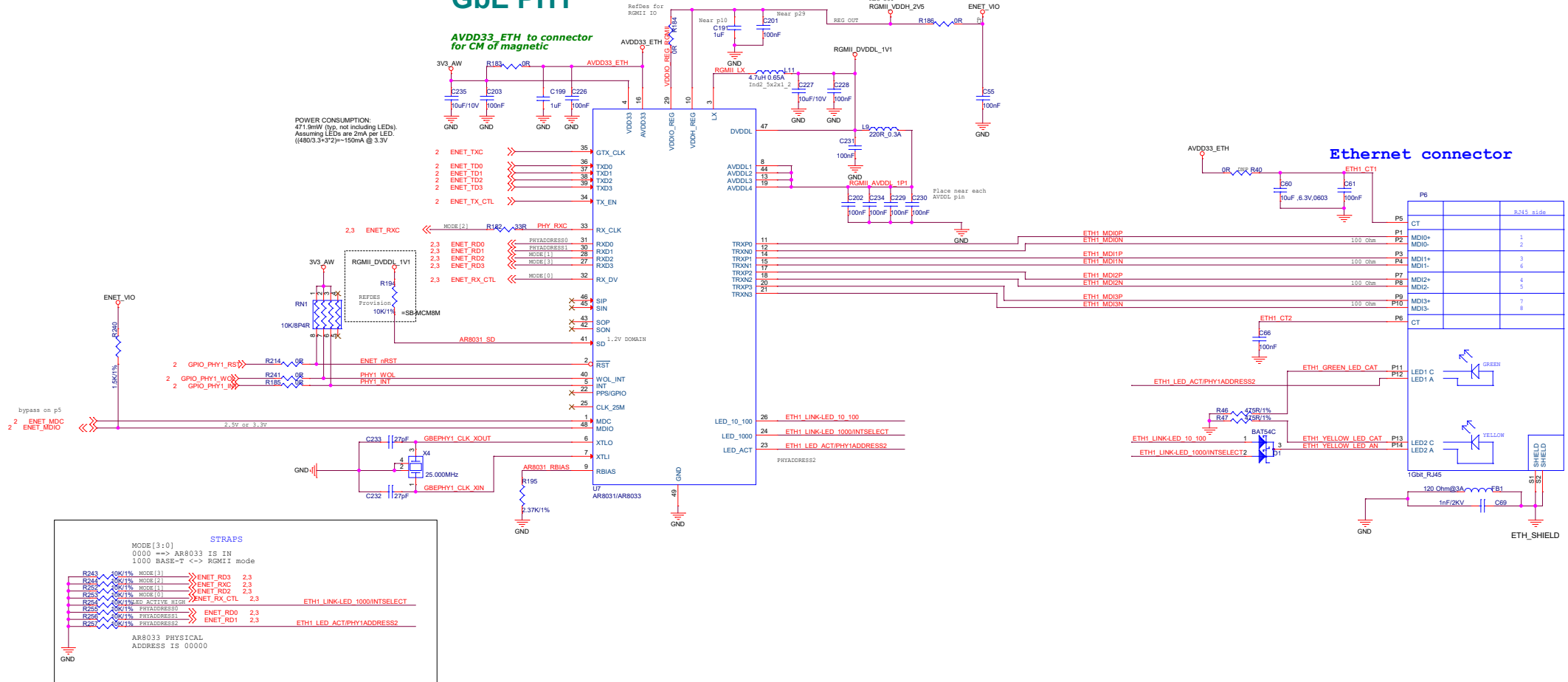


DOWN

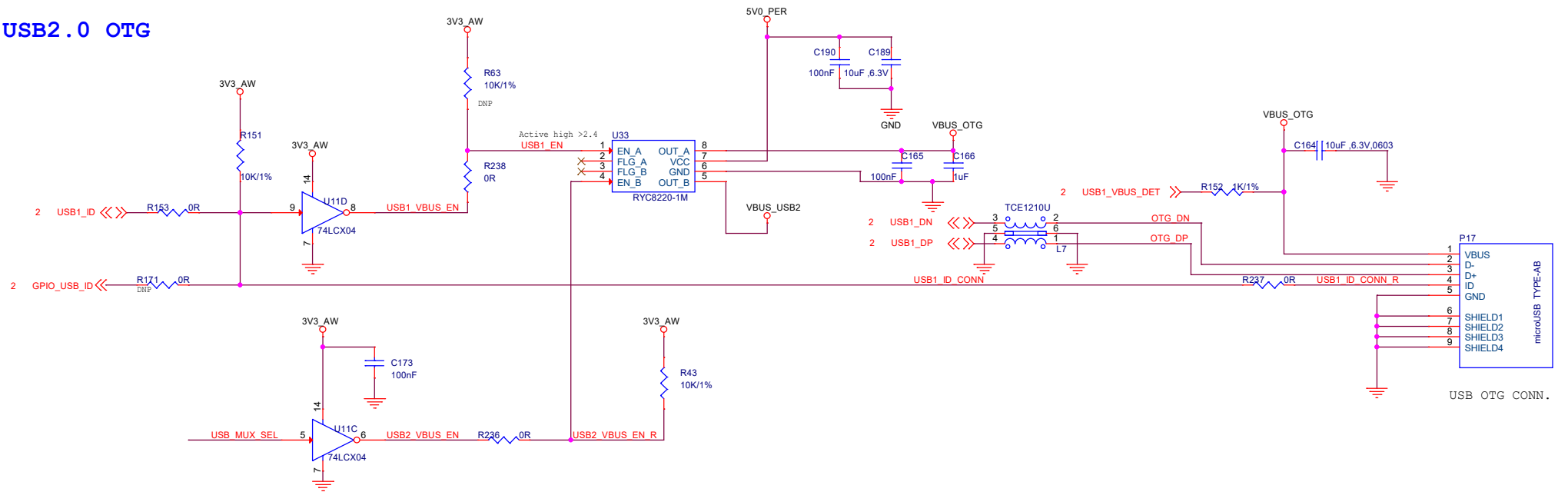
Gbe PHY

AVDD33_ETH to connector for CM of magnetic

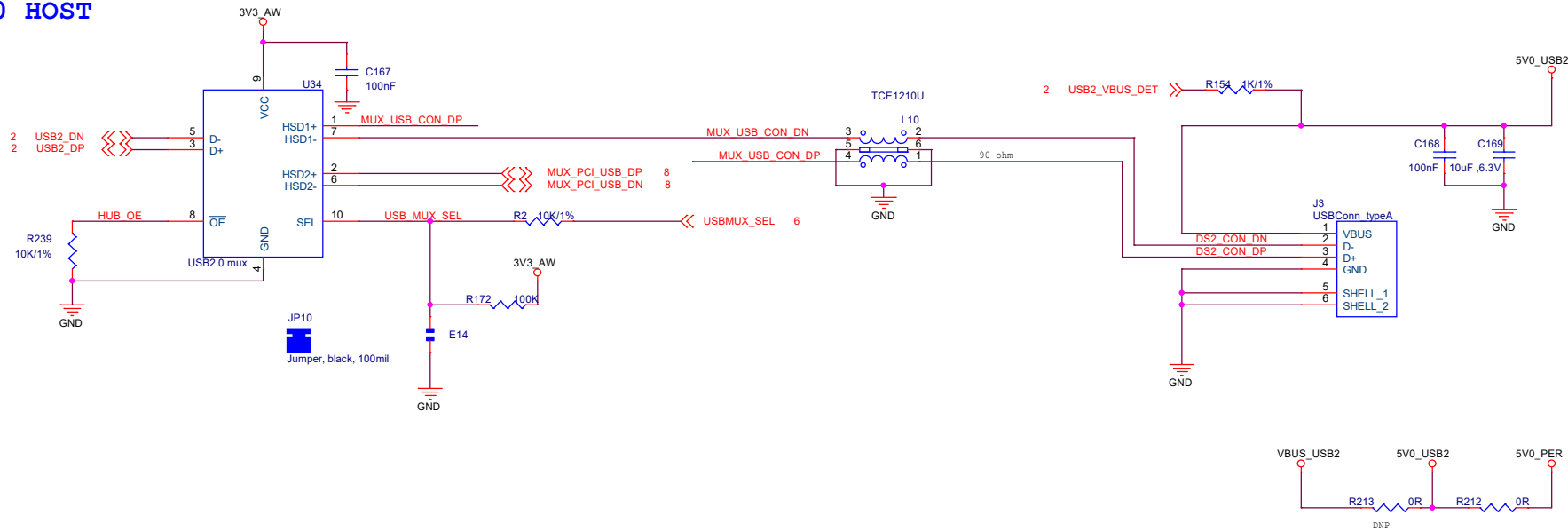
POWER CONSUMPTION:
471.9mW (typ. not including LEDs).
Assuming LEDs are 20mA per LED.
((480/3+3*2)*150mA @ 3.3V)



USB2.0 OTG

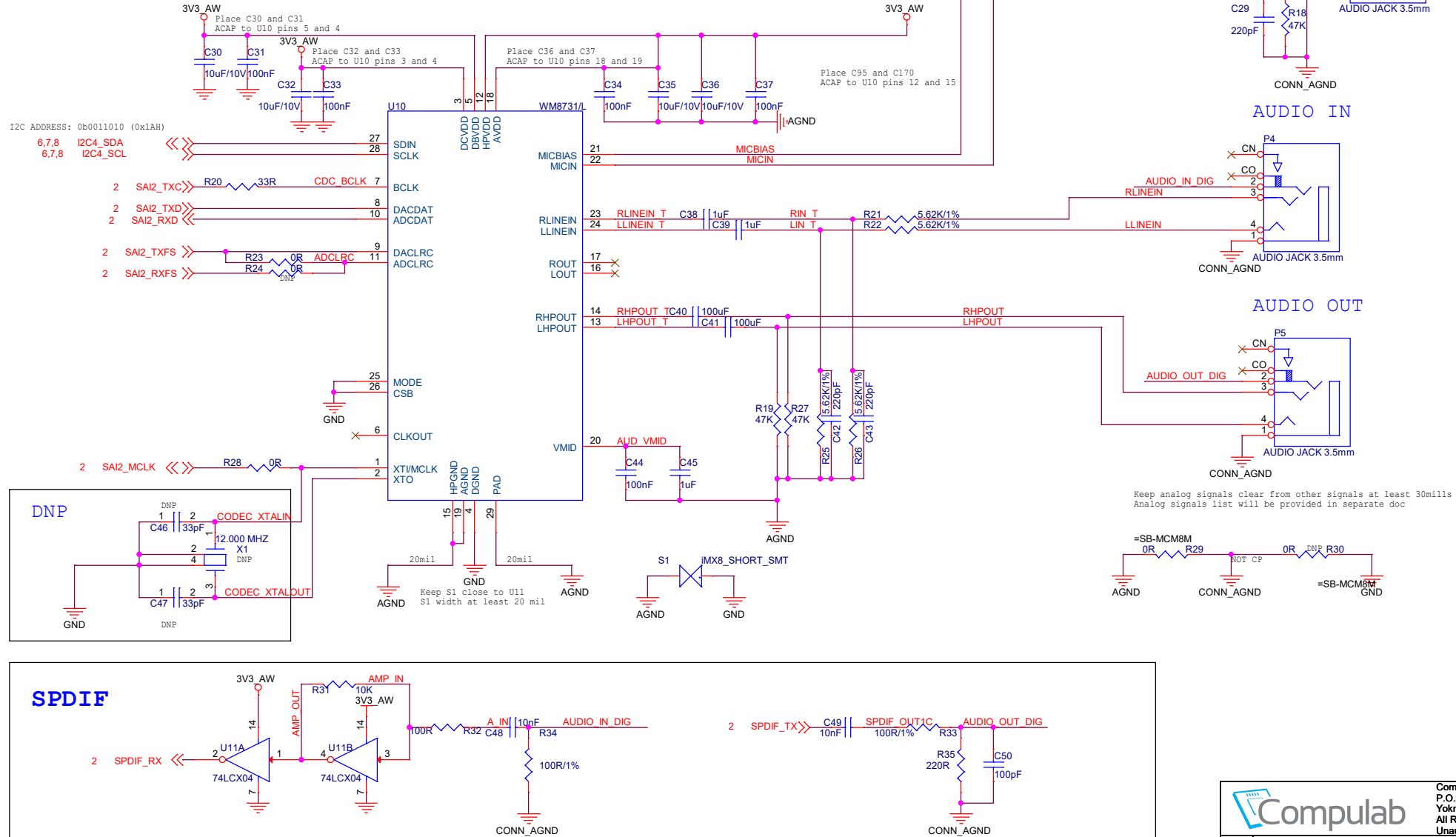


USB2.0 HOST

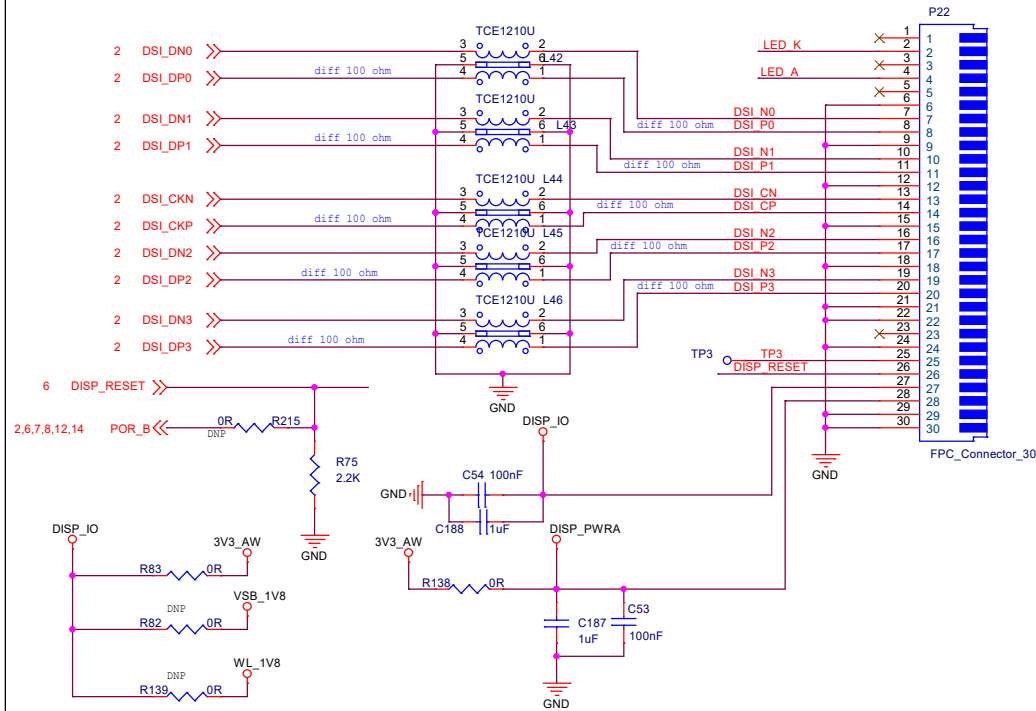


Audio Codec

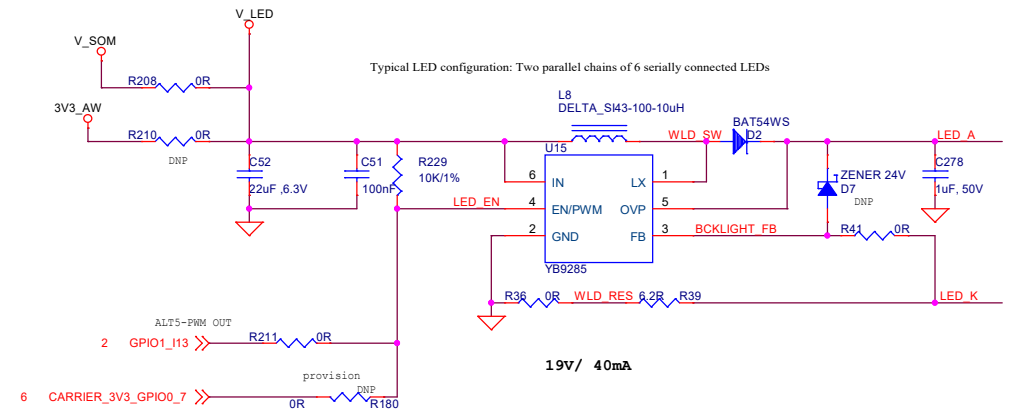
POWER CONSUMPTION:
 DBVDD = 1.5mA @ 3.3V (typ)
 DCVDD = 3.2mA @ 1.5V (typ) ==> assuming same current @ 3.3V
 HPVDD = 1.7mA @ 3.3V (typ)
 AVDD = 13.1mA @ 3.3V (typ)
 1.5+3.2+1.7+13.1=19.5mA @ 3.3V (typ):
 Assuming worst case is 50mA @ 3.3V



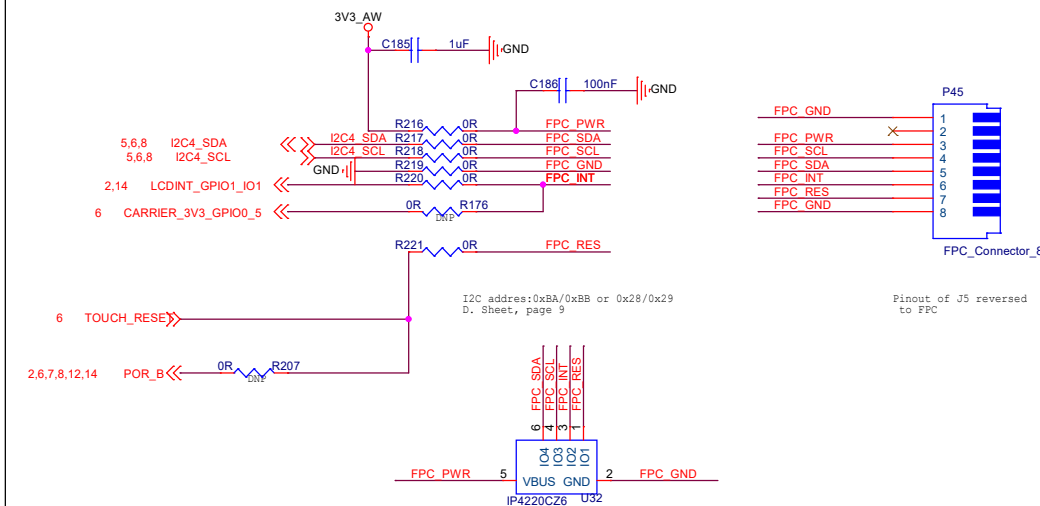
KD050HDFIA020 LCD connector



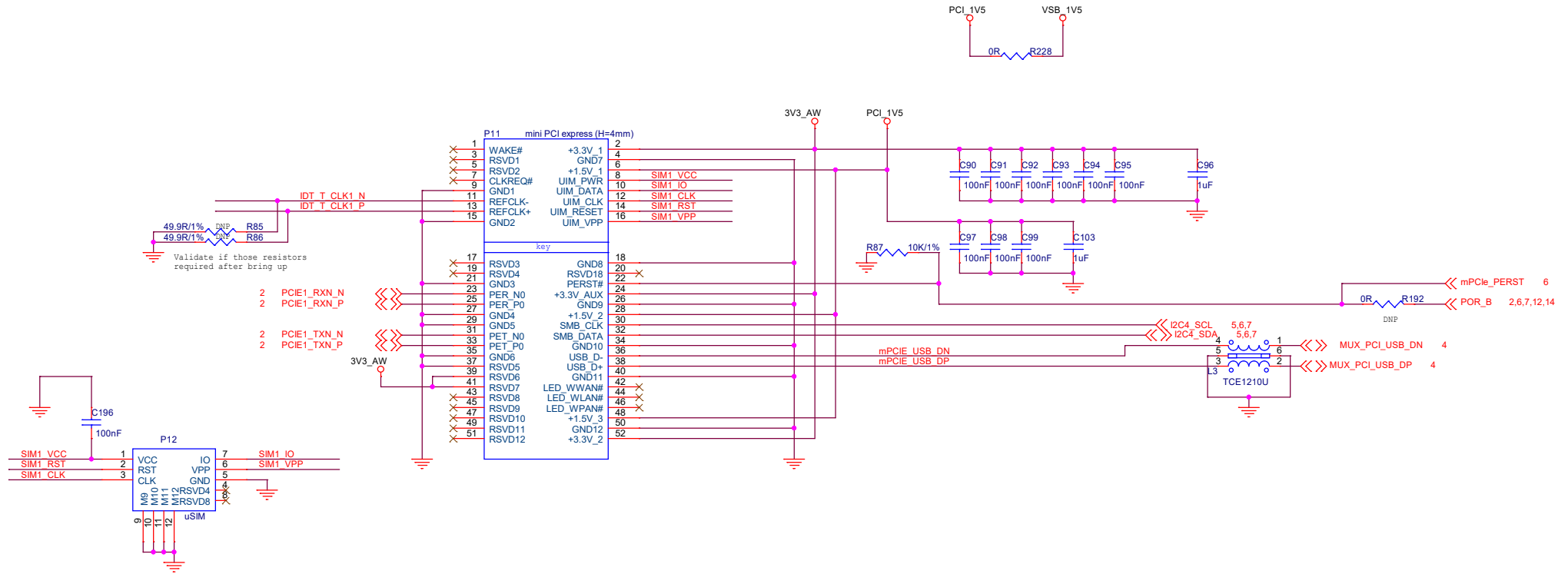
LCD back-light power



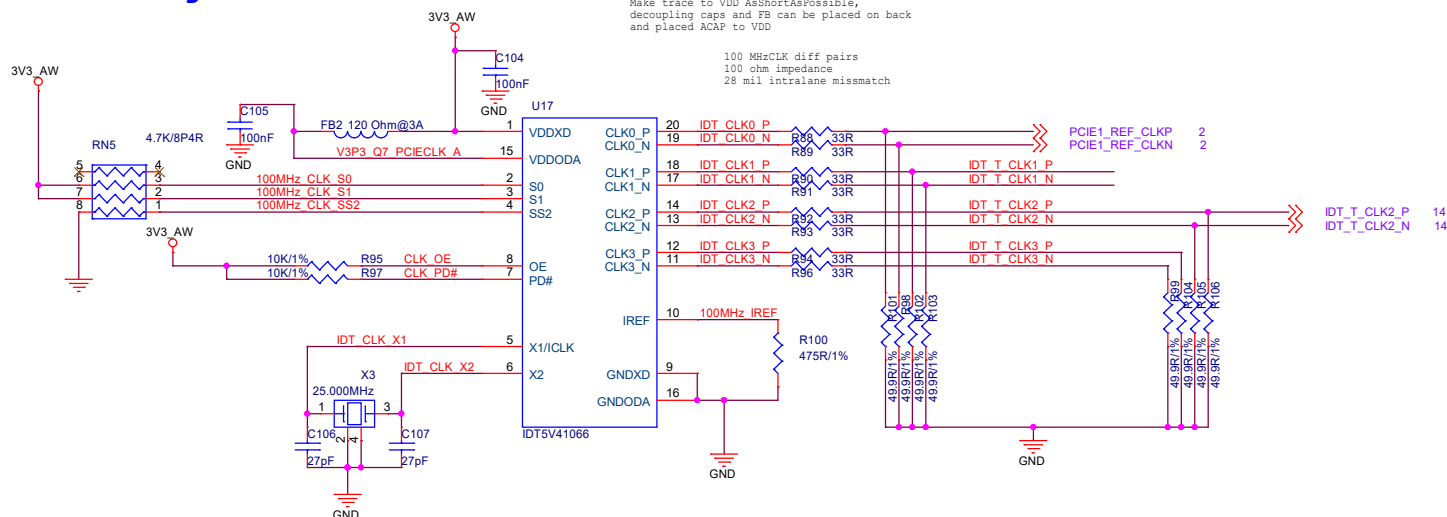
KD050HDFIA020 touch-panel connector



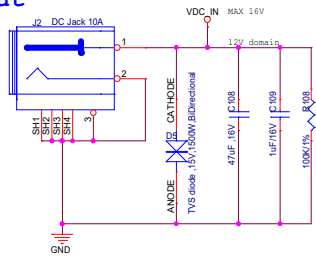
mini PCIe socket & SIM socket



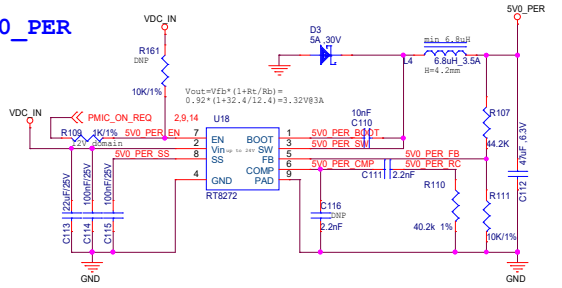
PCIe clock generator



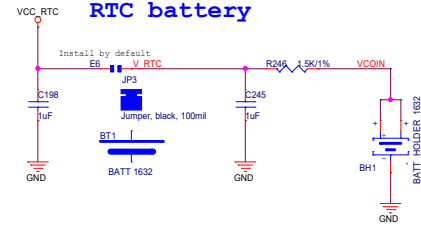
DC input



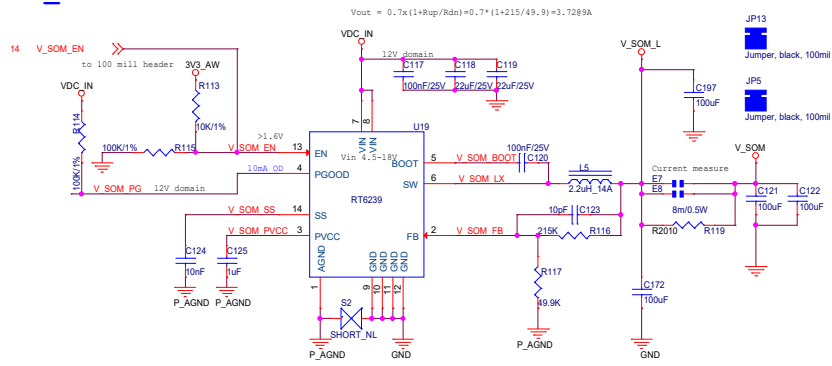
5V0_PER



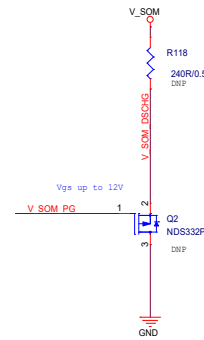
RTC battery



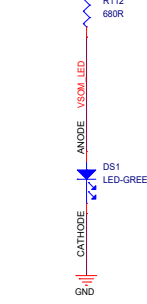
V_SOM



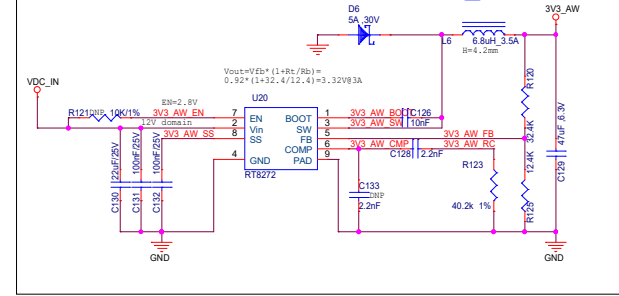
V_SOM discharge



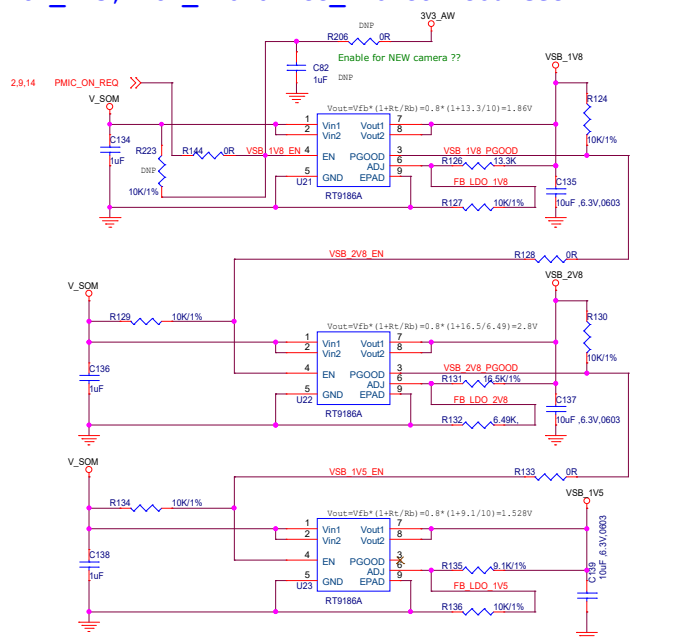
V_SOM



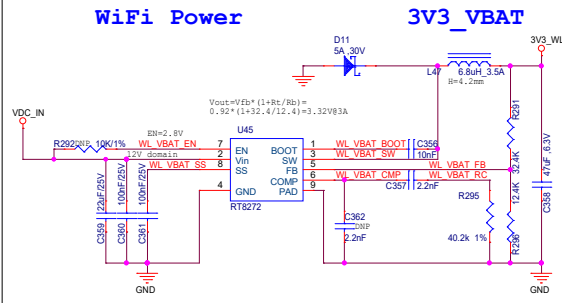
3V3_AW



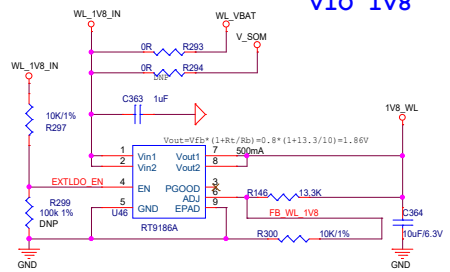
VSB_1V5, VSB_1V8 & VCC_2V8 CSI sources



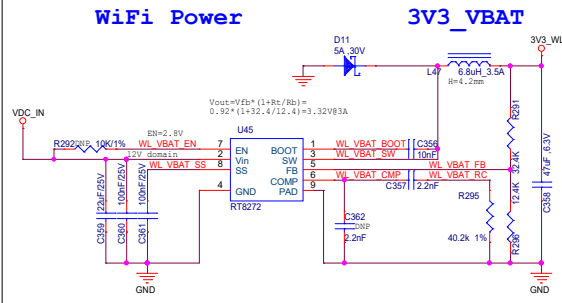
WiFi Power



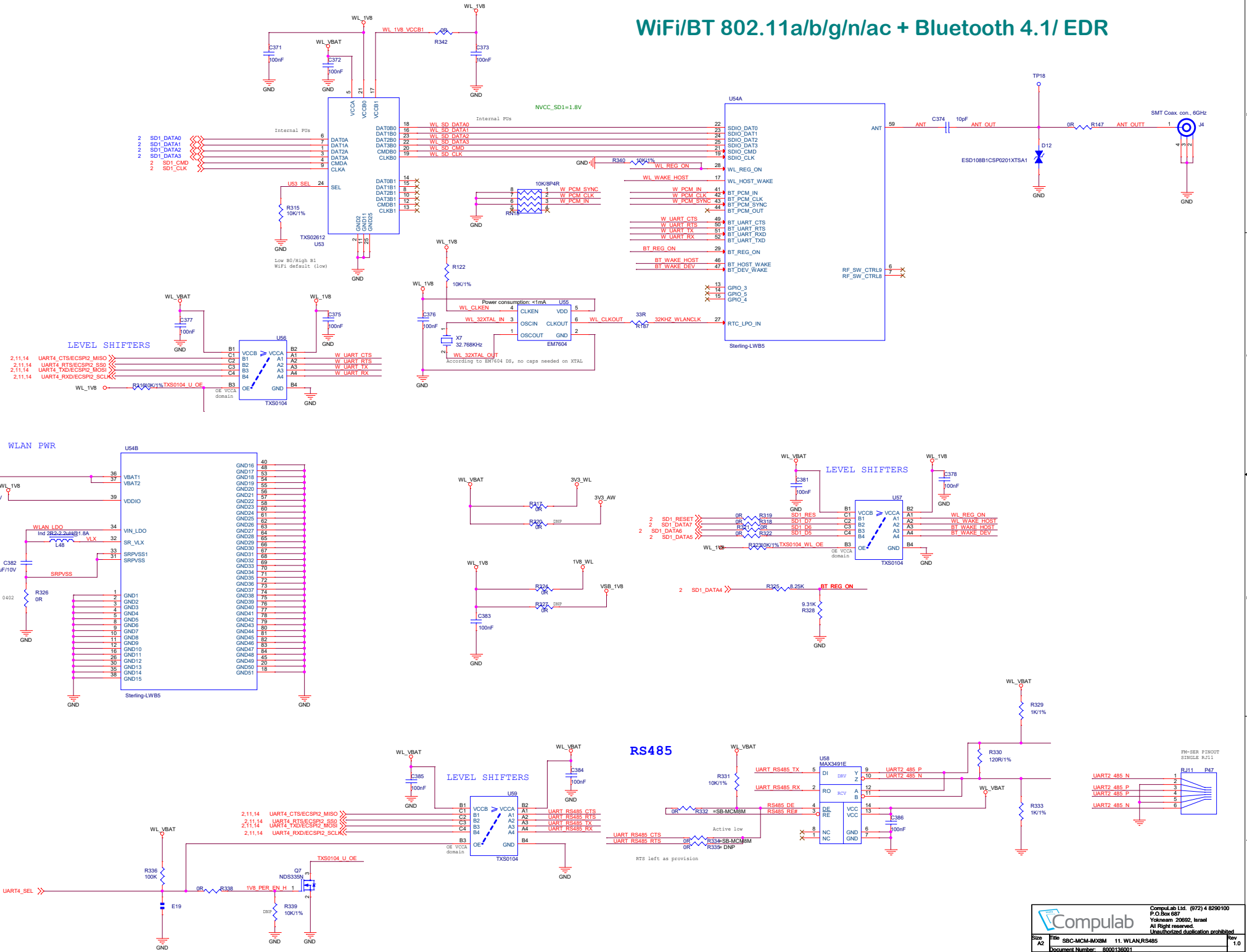
VIO 1V8



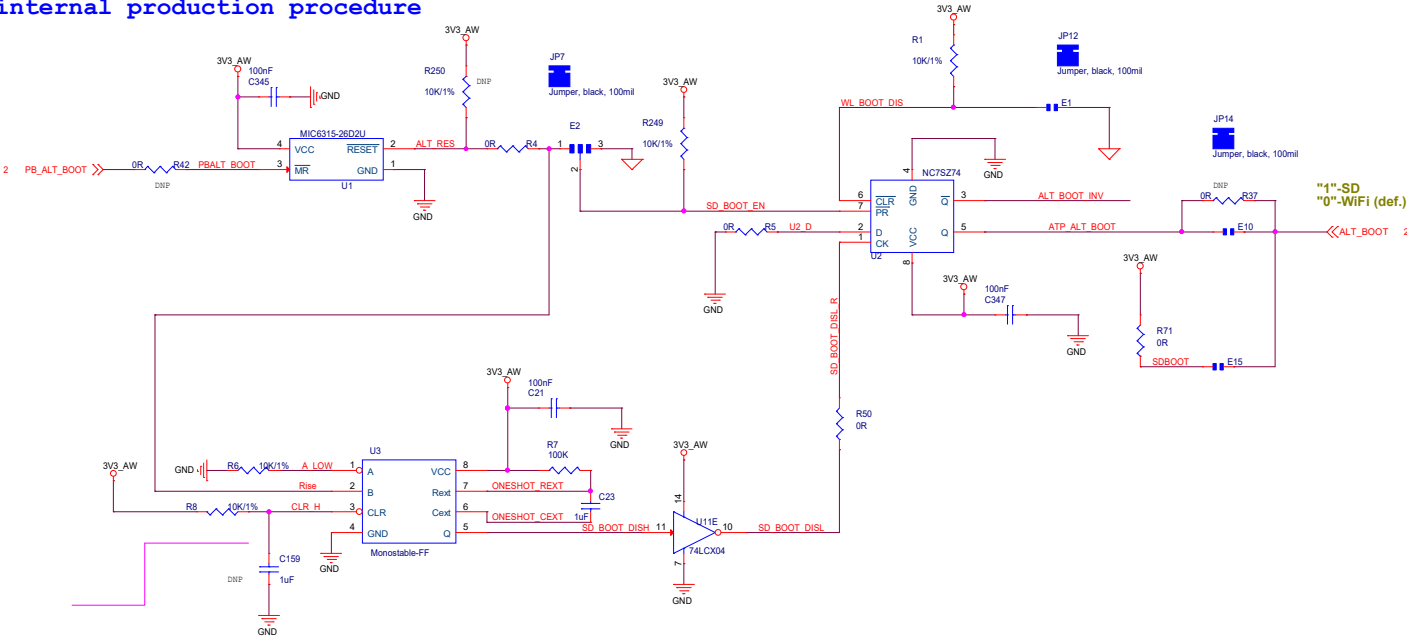
3V3_VBAT



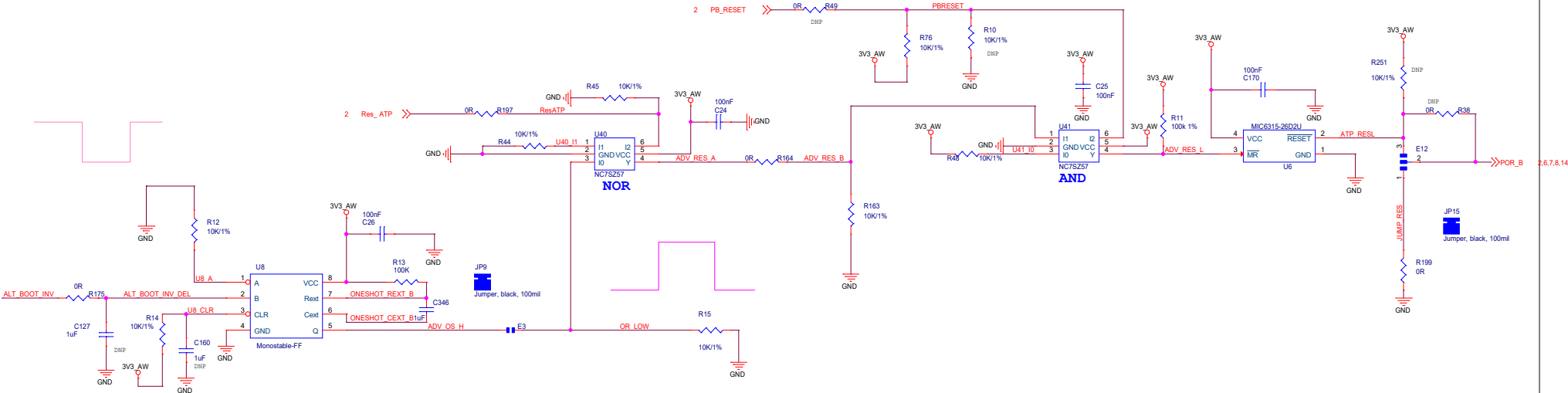
WiFi/BT 802.11a/b/g/n/ac + Bluetooth 4.1/ EDR

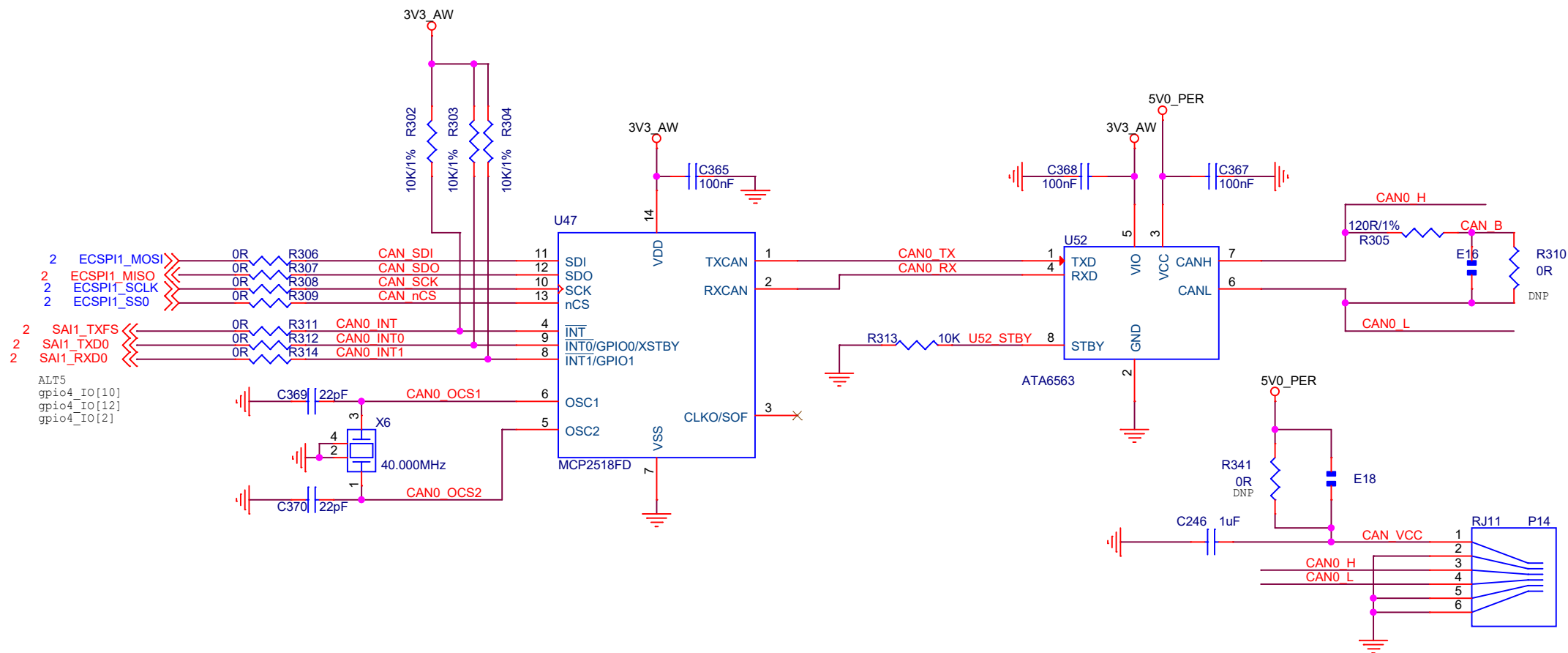


Auto alt-boot for internal production procedure

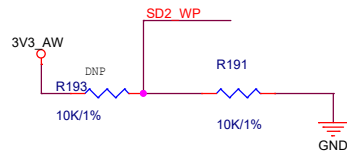
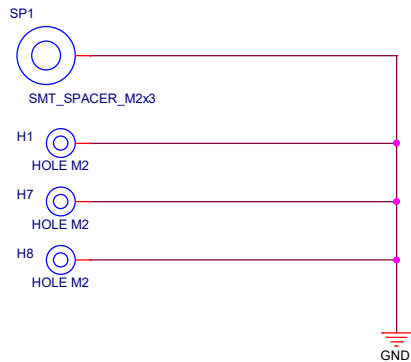


Auto-reset for internal production procedure

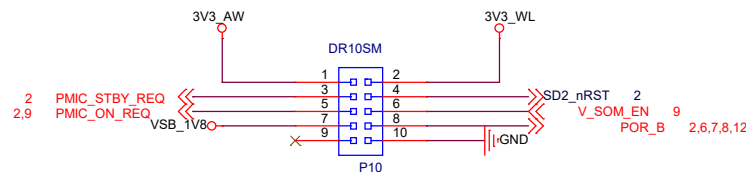
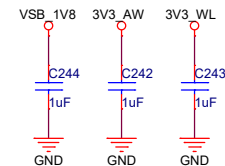
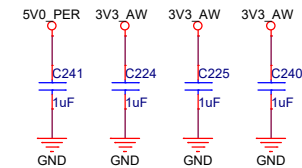
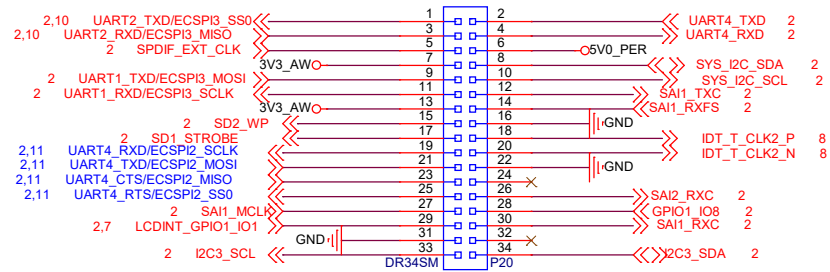




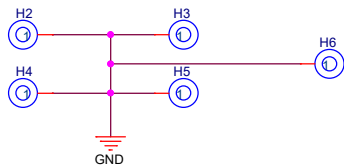
For PCIe module



MISC connectors



For carrier-board stand-offs



Stitching capacitors

