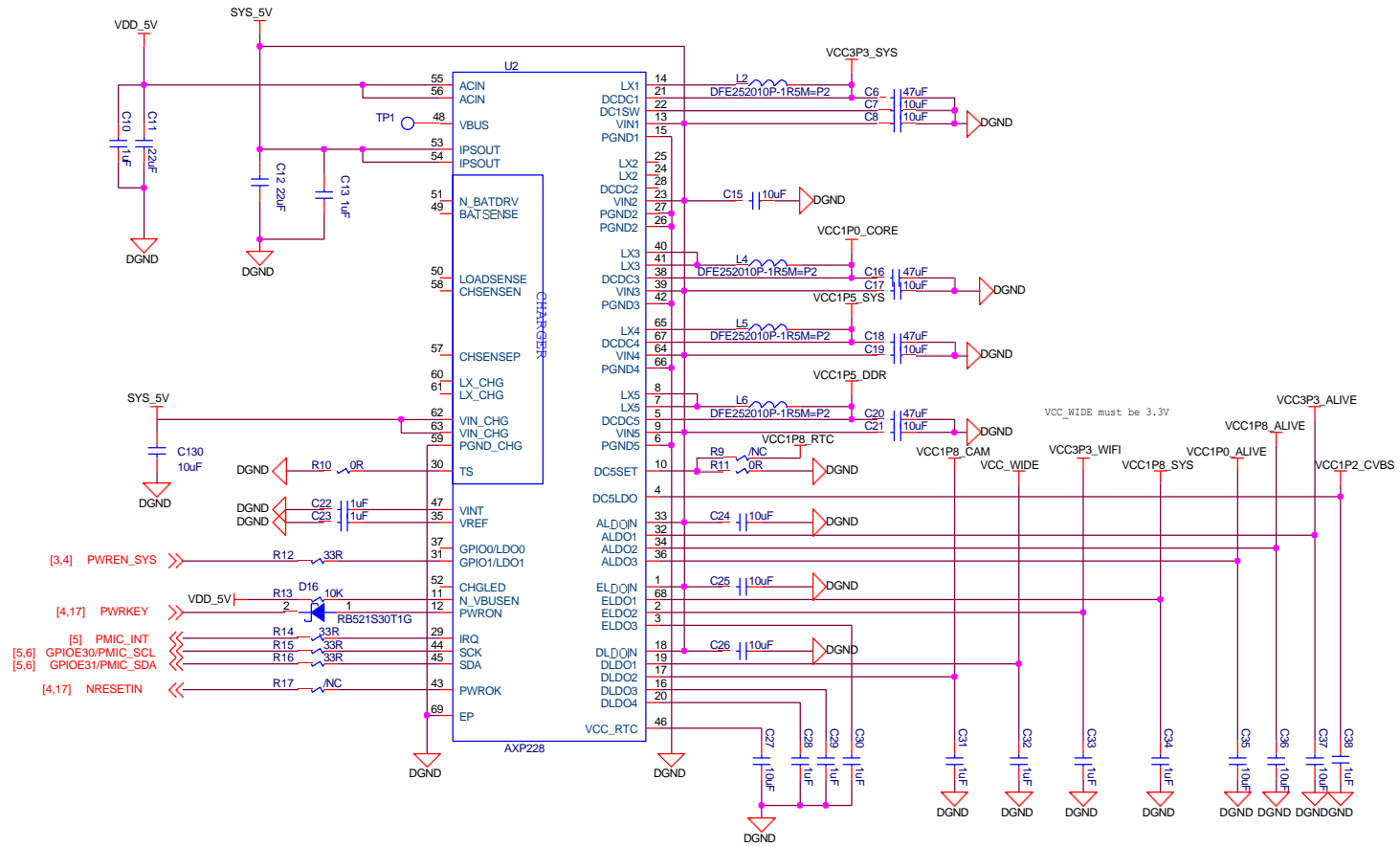
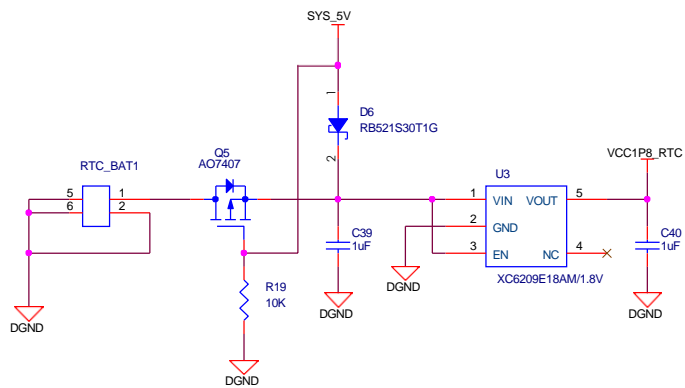


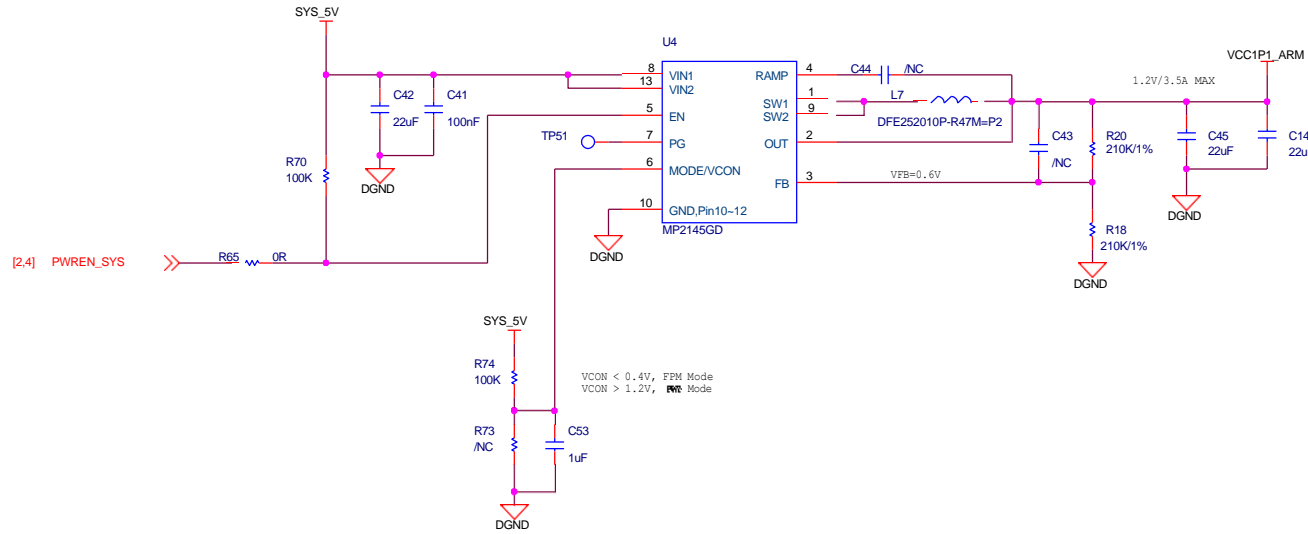
PMIC



RTC Power



VDD_ARM



PCB Layout Recommendation

Proper layout of the switching power supplies is very important, and sometimes critical to make it work properly. Especially, for the high switching converter, if the layout is not carefully done, the regulator could show poor line or load regulation, stability issues.

For MP2145, the high speed step-down regulator, the input capacitor should be placed as close as possible to the IC pins. As shown in Figure 7, the 0805 size ceramic capacitor is used, please make sure the two ends of the ceramic capacitor be directly connected to PIN 8 (the Power Input Pin) and PIN 10/11/12 (the Power GND Pin).

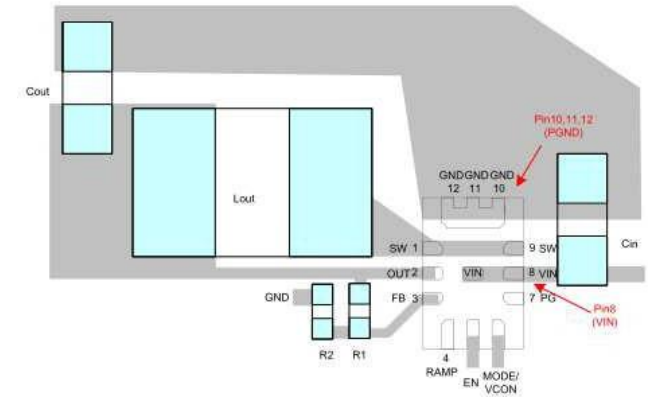
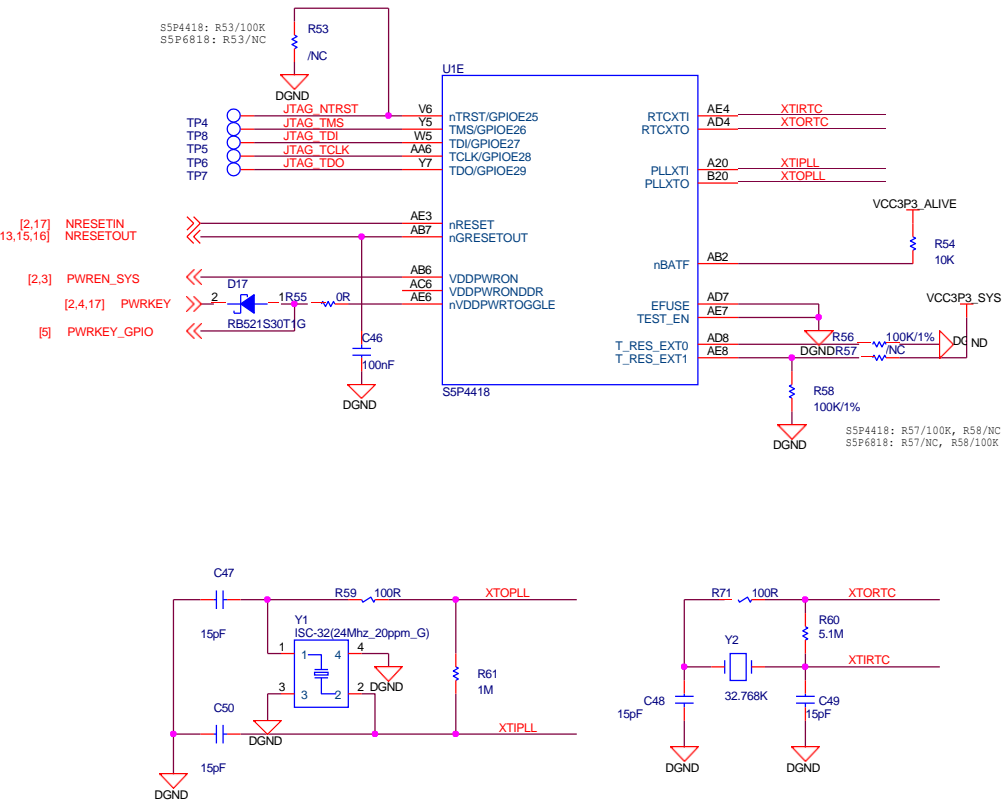


Figure 7: Two ends of Input decoupling Capacitor close to Pin 8 and Pin 10/11/12

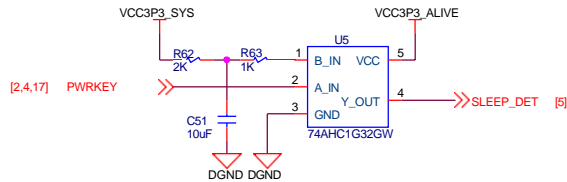
FRIENDLYARM

NanoPC-TZ/T3		
Size A3	Document Number 03.VDD_ARM	Rev 1603
Date: Saturday, April 09, 2016	Sheet 3	of 17

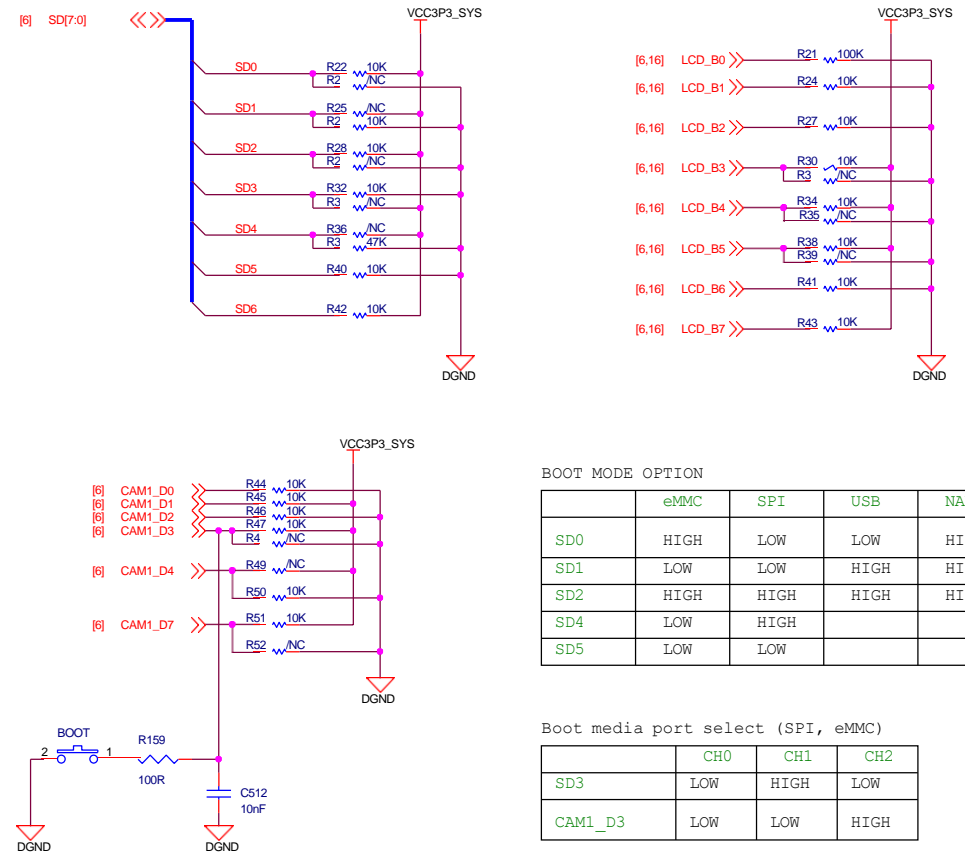
System Reset, Clocks



Sleep Detect



Boot Mode Config



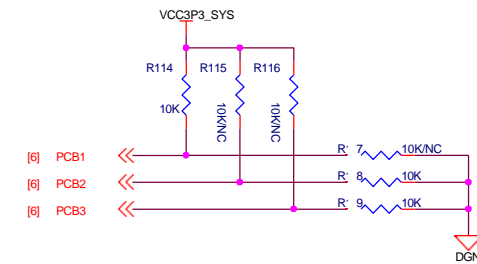
BOOT MODE OPTION

	eMMC	SPI	USB	NAND
SD0	HIGH	LOW	LOW	HIGH
SD1	LOW	LOW	HIGH	HIGH
SD2	HIGH	HIGH	HIGH	HIGH
SD4	LOW	HIGH		
SD5	LOW	LOW		

Boot media port select (SPI, eMMC)

	CH0	CH1	CH2
SD3	LOW	HIGH	LOW
CAM1_D3	LOW	LOW	HIGH

PCB Version



FRIENDLYARM

AP Peripherals

R78, R79 is as close as possible to the SOC

VCC1P8_At

VCC1P8_At

4.7K/1%

RT1
DAE06GJ103H3435V
As close as possible to the AP

DGND

DGND

DGND

DGND

DGND

DGND

DGND

DGND

DGND

DGND

DGND

DGND

DGND

DGND

DGND

DGND

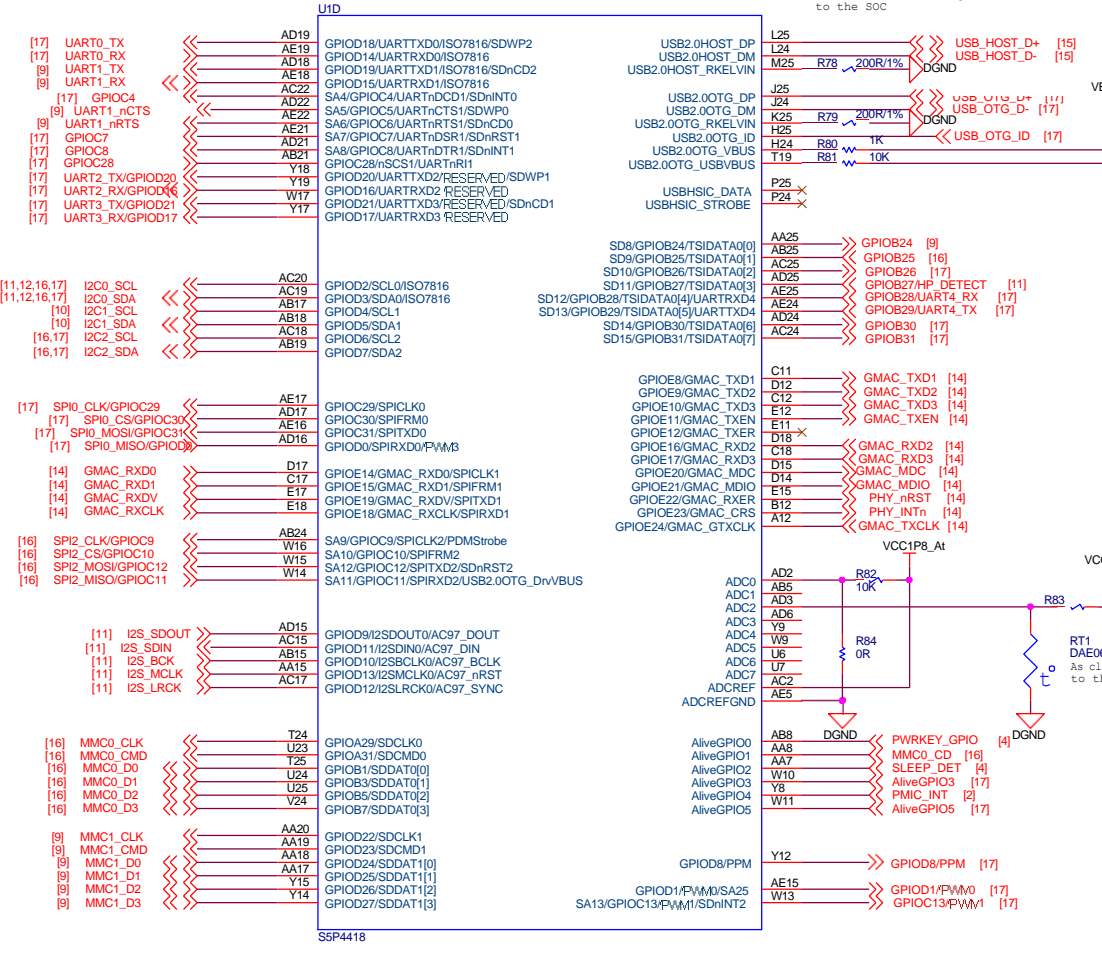
DGND

DGND

DGND

DGND

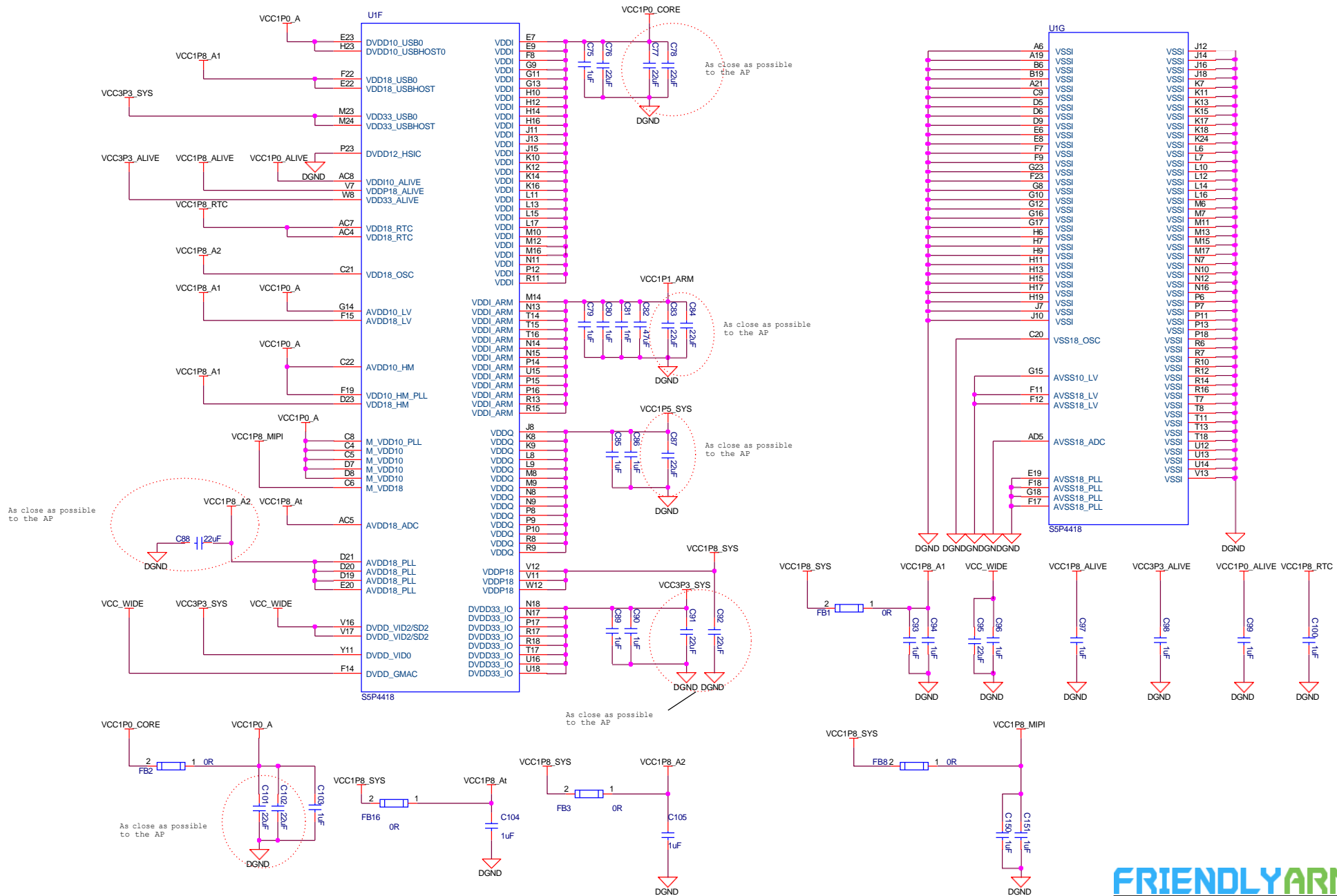
DGND



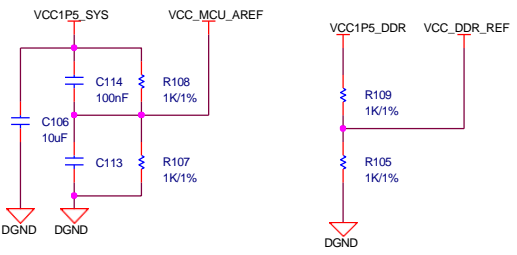
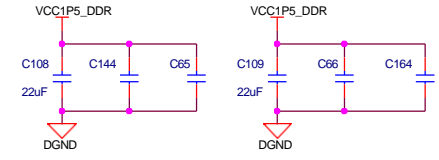
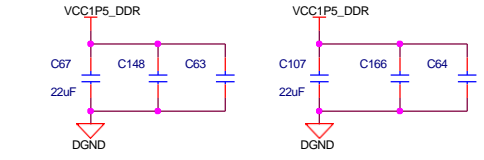
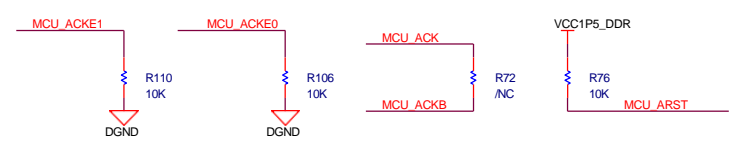
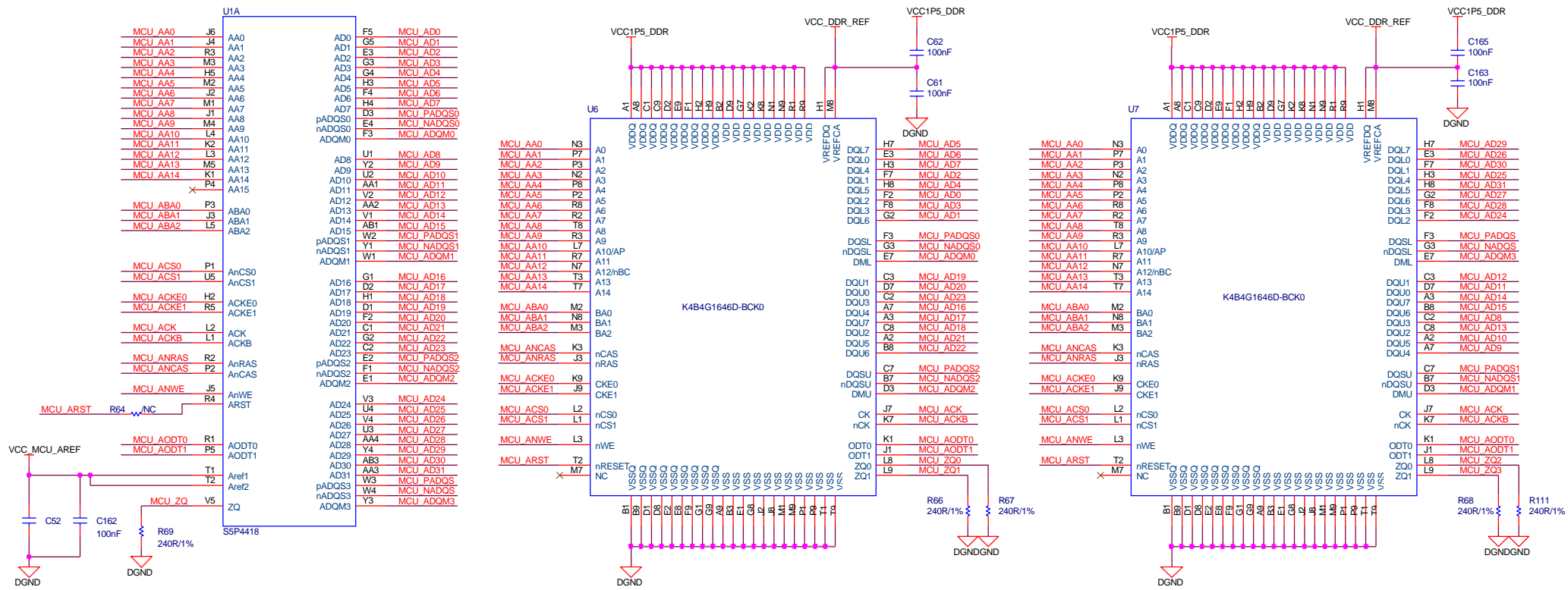
I2C CH0 : Camera
I2C CH1 : HDMI EDID
I2C CH2 : Touch
PMIC_I2C : PMIC



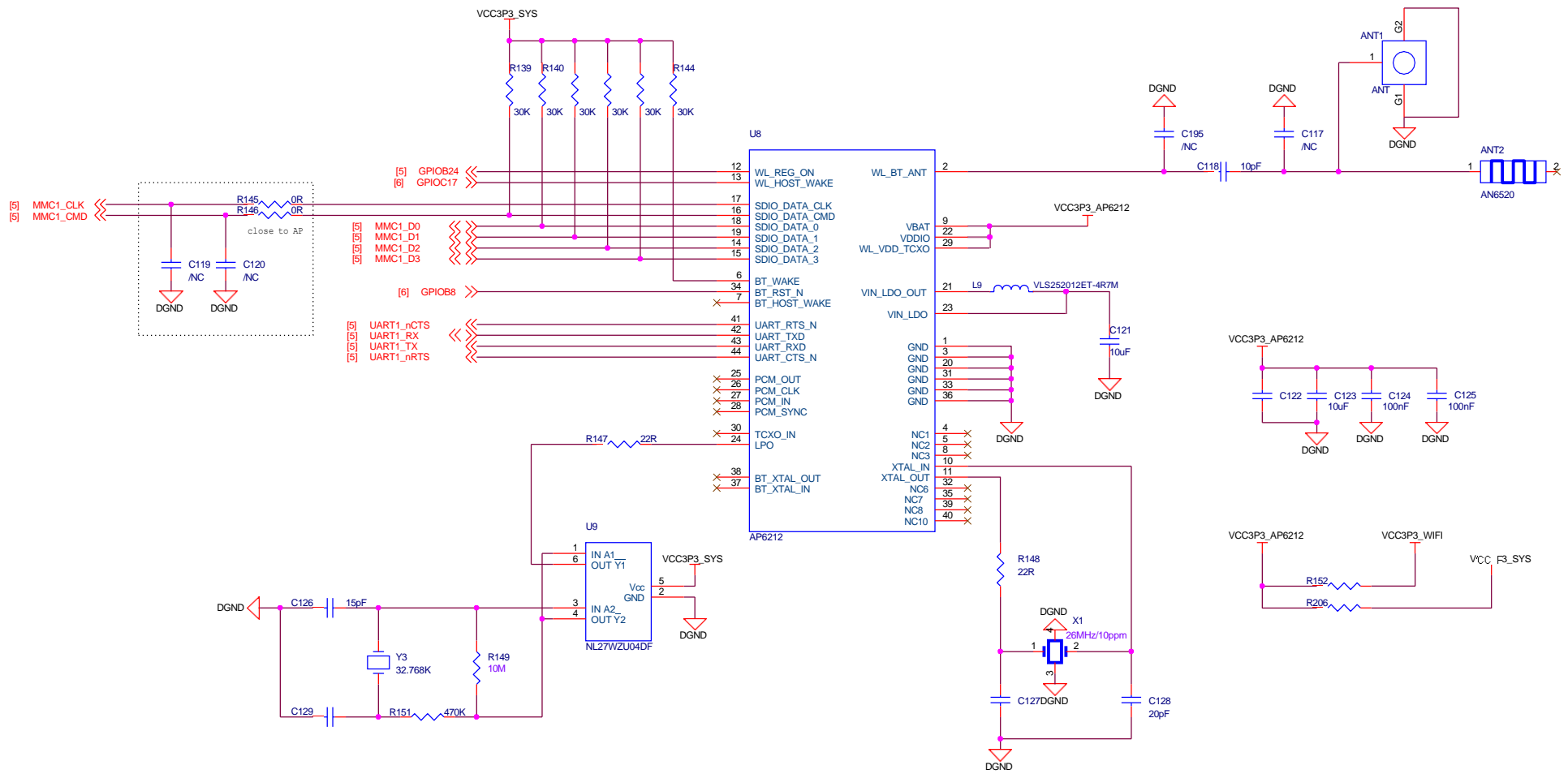
AP Power



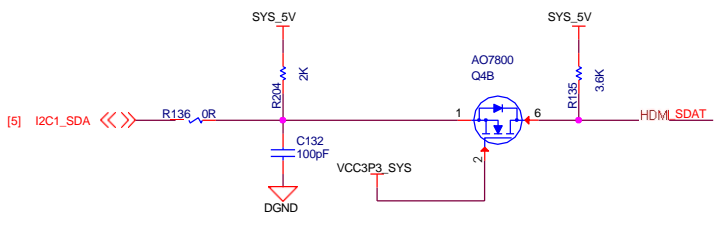
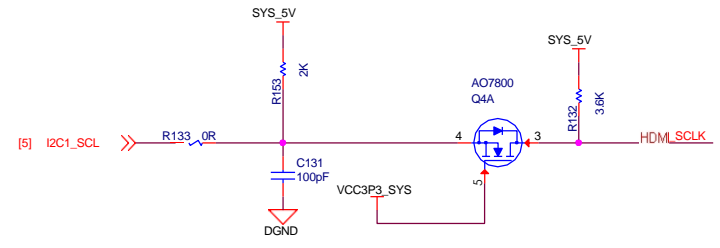
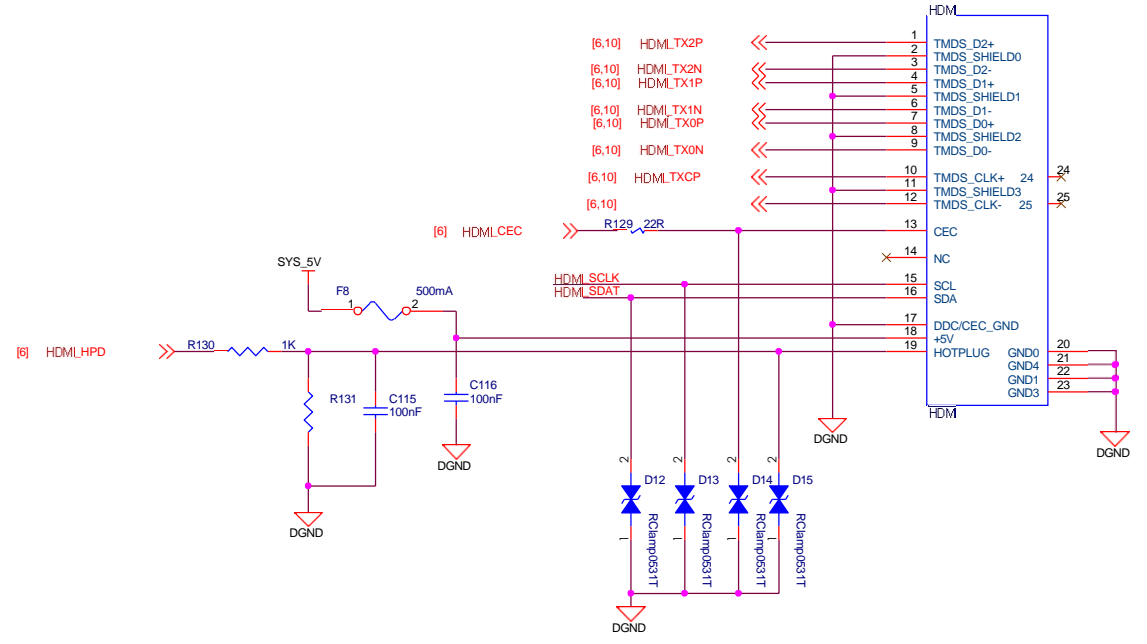
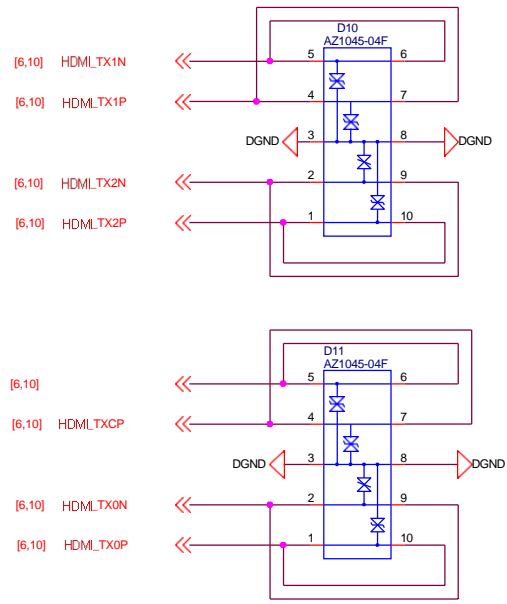
DDR3



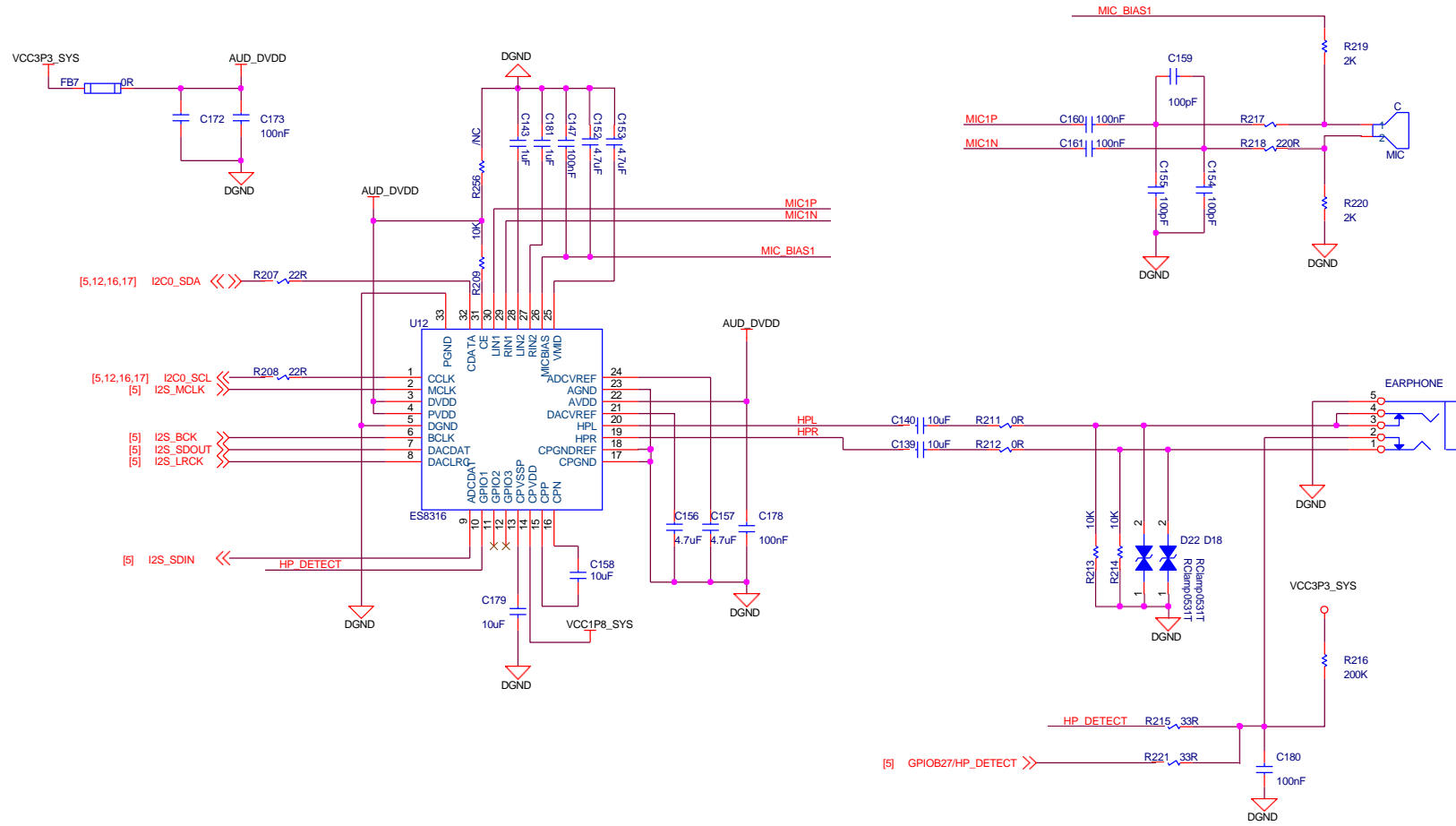
Wi-Fi/Bluetooth



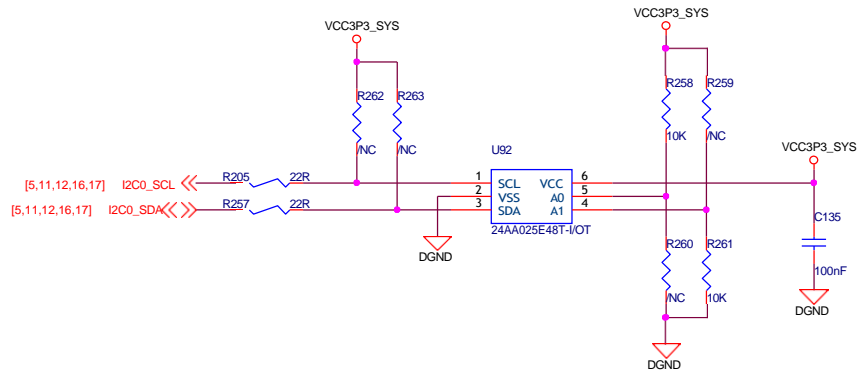
HDMI



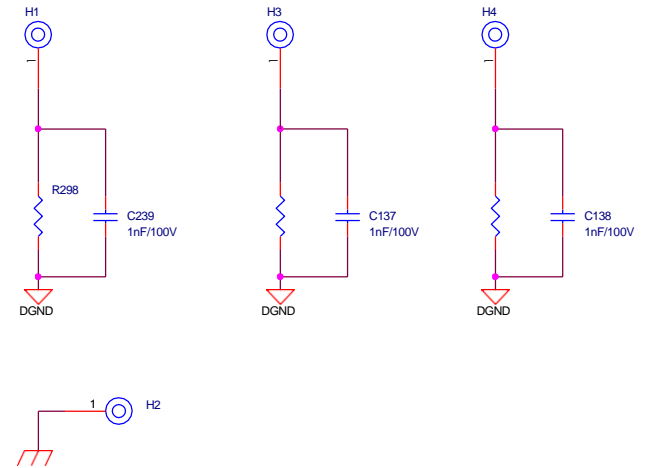
Audio



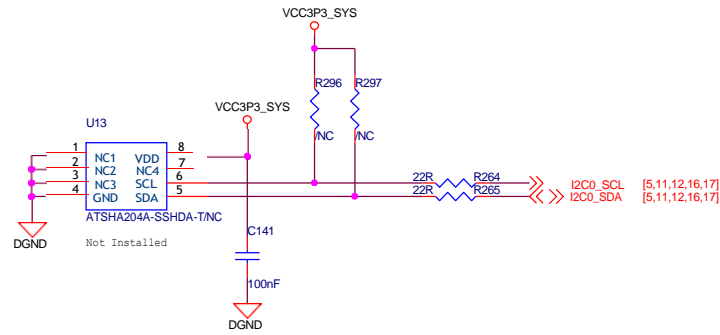
EEPROM with MAC Address



Mounting Holes



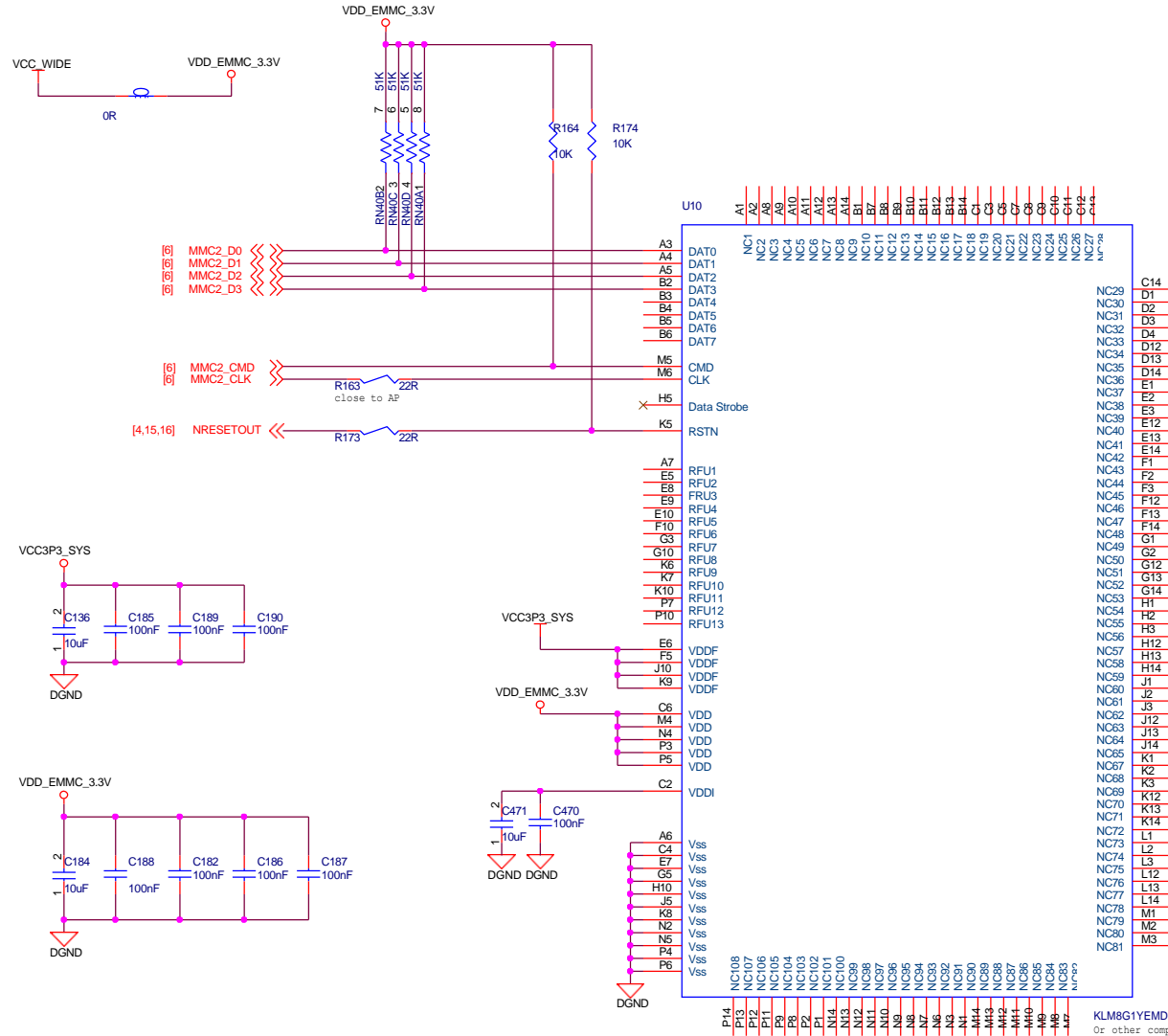
CryptoAuthentication



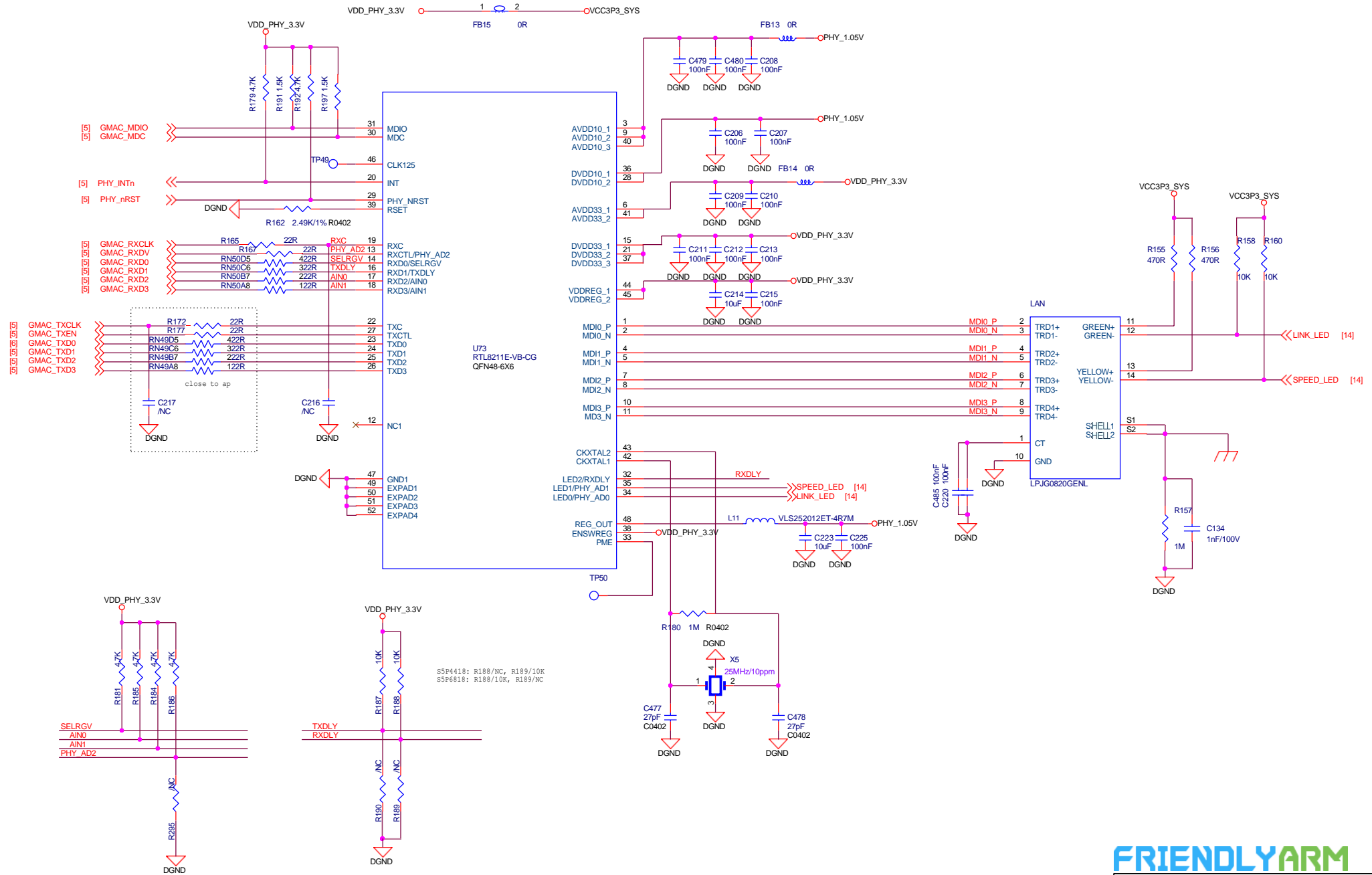
FRIENDLYARM

NanoPC-TZ/T3		
Size	Document Number	Rev
A3	12_EEPROM_SHA-256_Holes	1603
Date:	Thursday, March 31, 2016	Sheet 12 of 17

eMMC

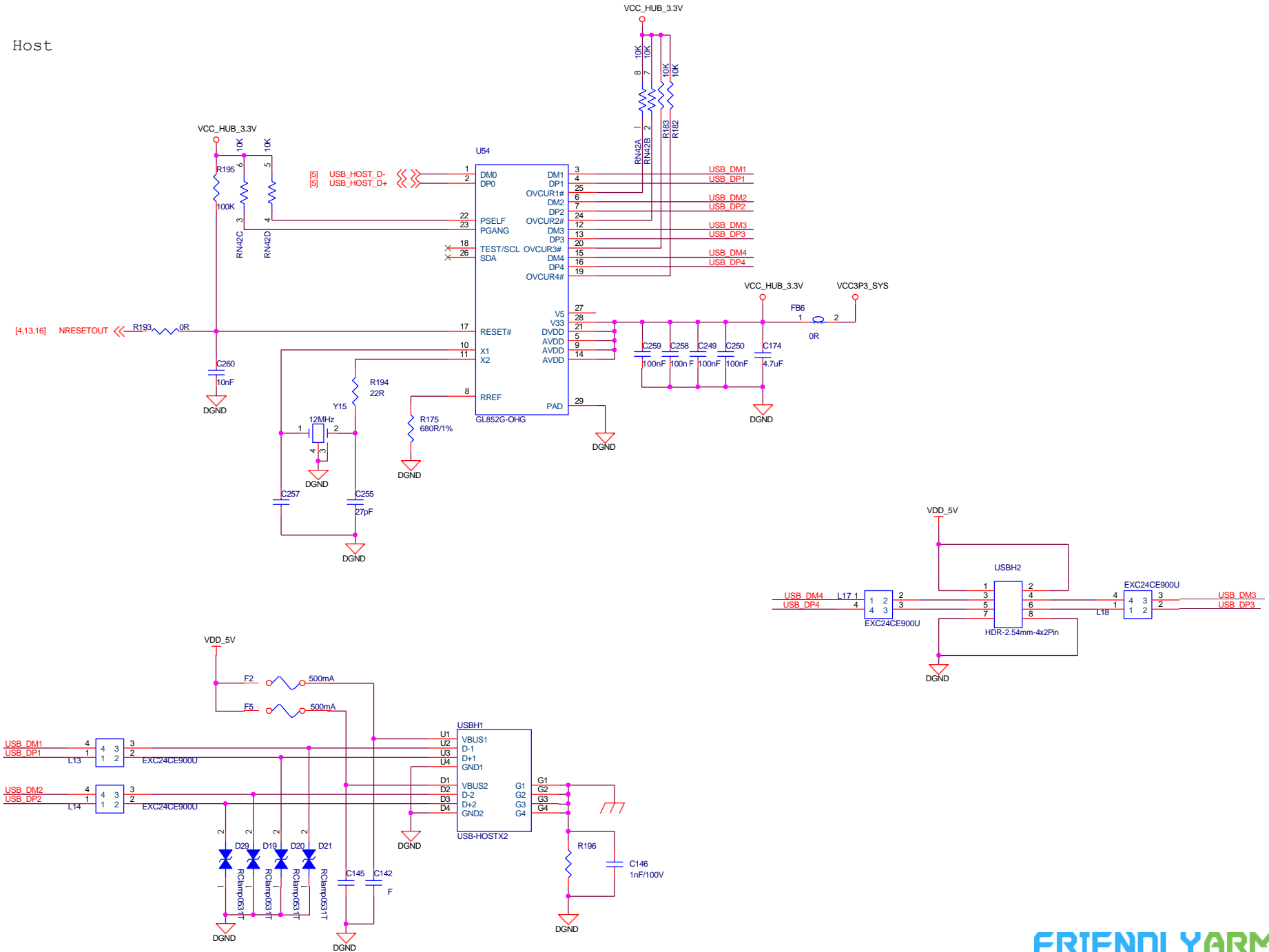


10/100/1000M Ethernet



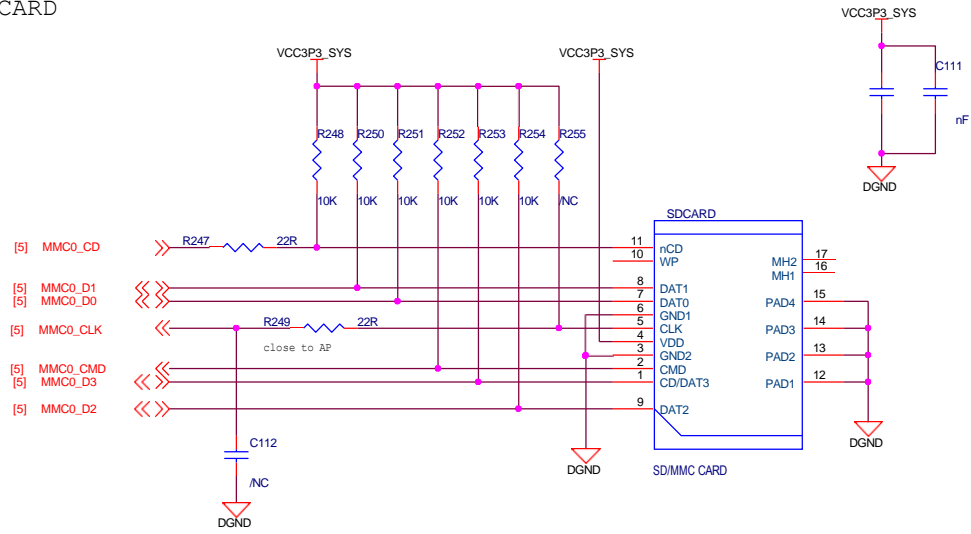
NanoPC-T2/T3		
Size A3	Document Number 14.LAN	Rev 1603
Date: Friday, April 08, 2016	Sheet 14 of 17	

USB 2.0 Host

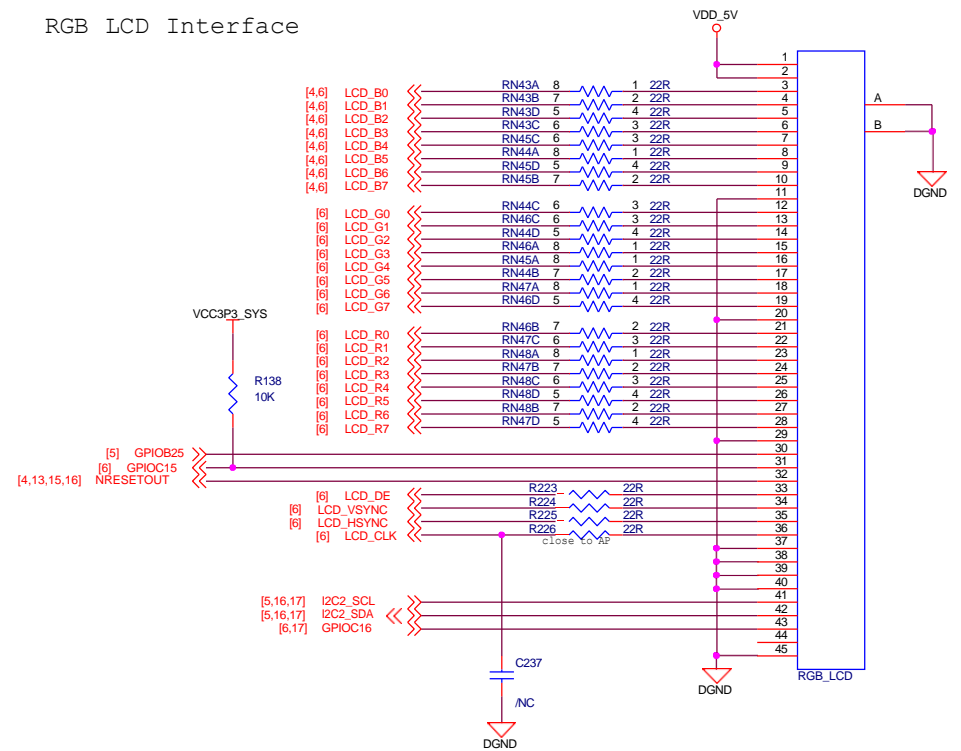


NanoPC-TZ/T3		
Size A3	Document Number 15.USB-Host	Rev 1603
Date: Monday, April 25, 2016	Sheet 15 of 17	

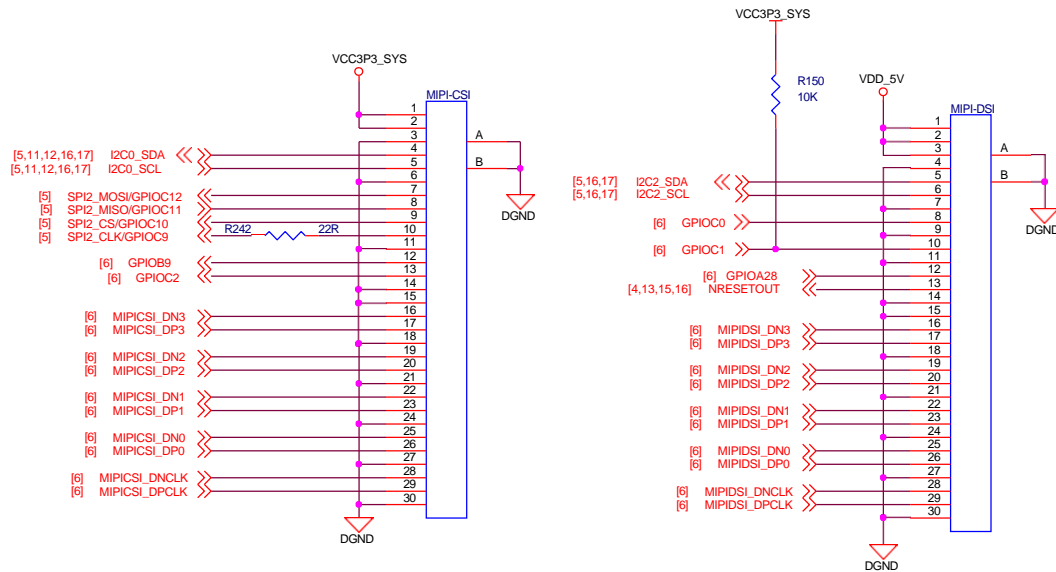
SDCARD



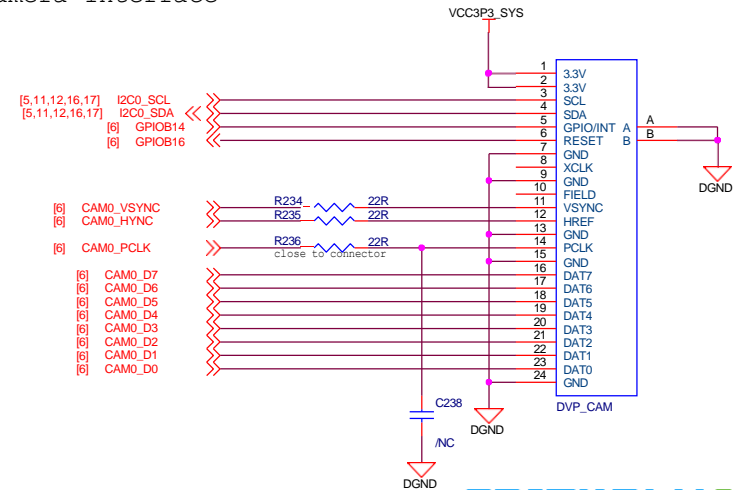
RGB LCD Interface



MIPI Interface

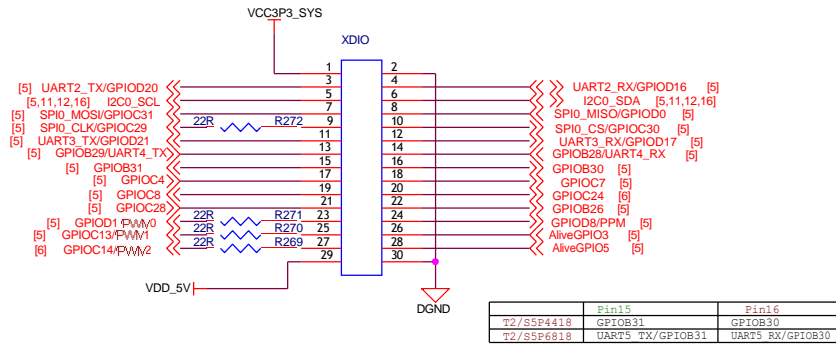


Camera Interface

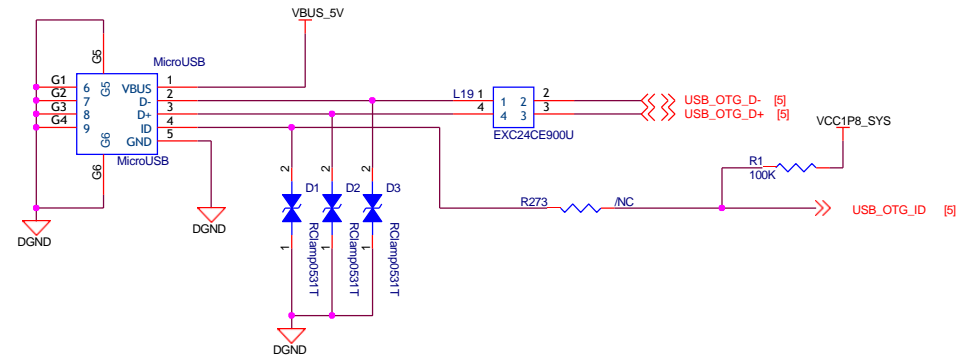


FRIENDLYARM

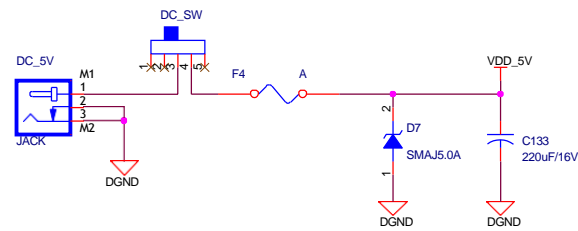
2.54mm Header



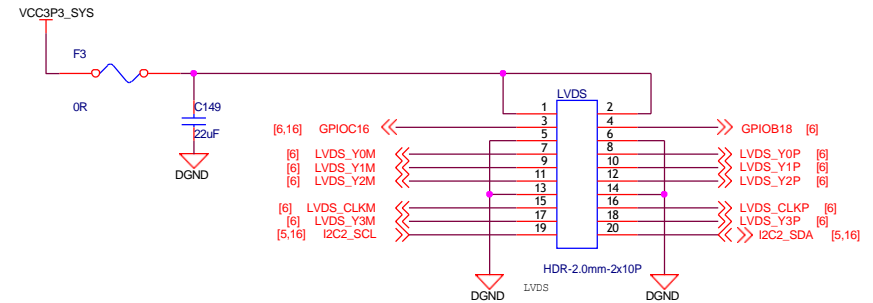
MicroUSB



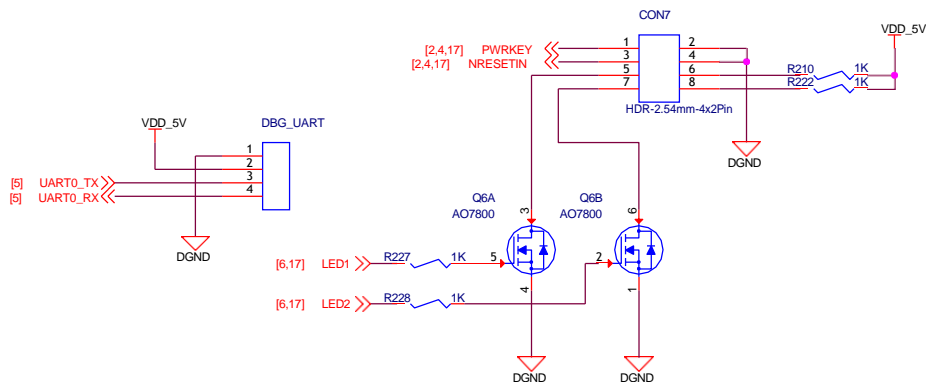
5V Power IN



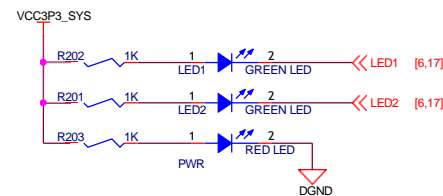
LVDS



Debug UART



LEDs



Buttons



FRIENDLYARM

以上内容仅为本文档的试下载部分，为可阅读页数的一半内容。如要下载或阅读全文，请访问：<https://d.book118.com/287050066042006056>