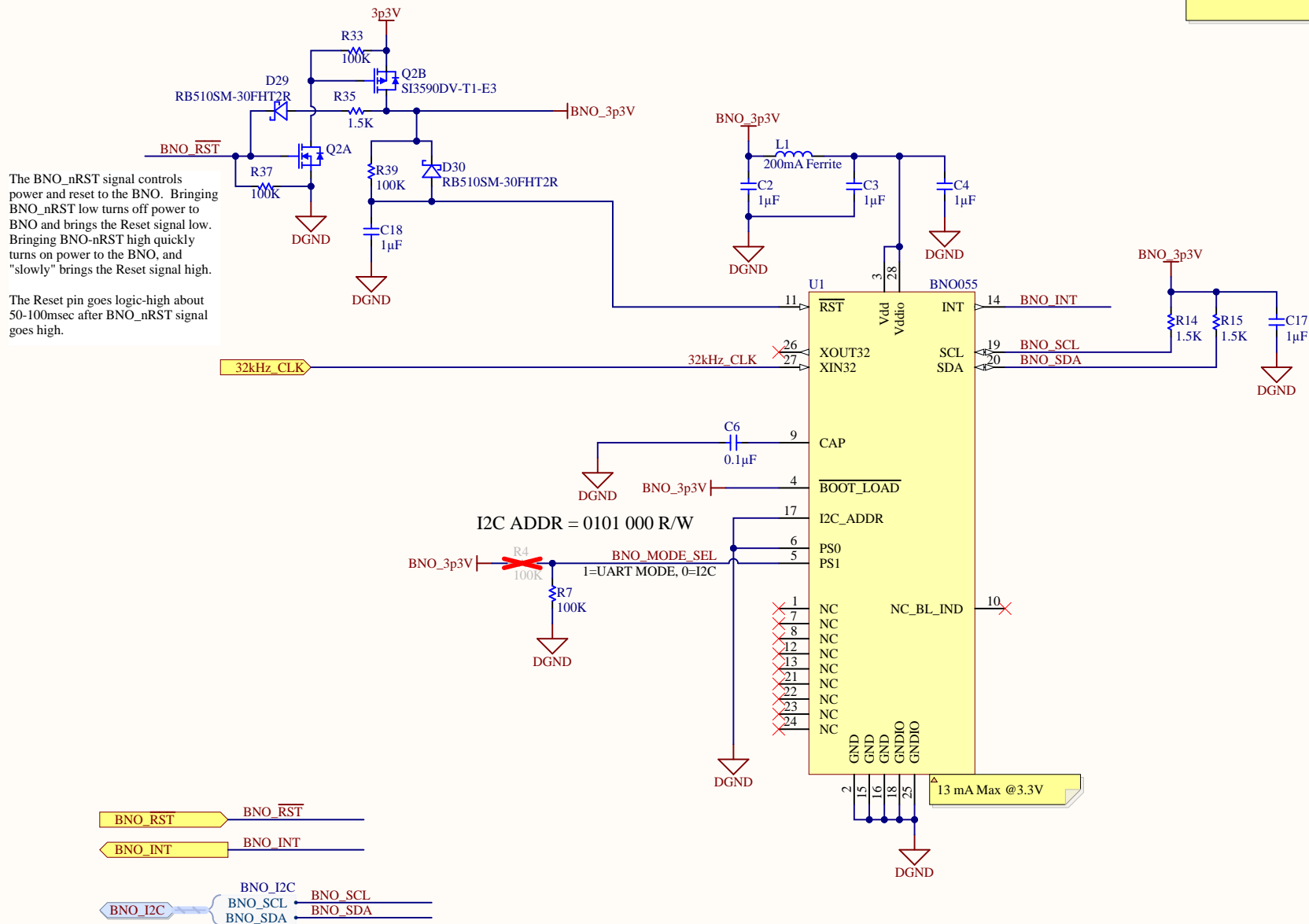
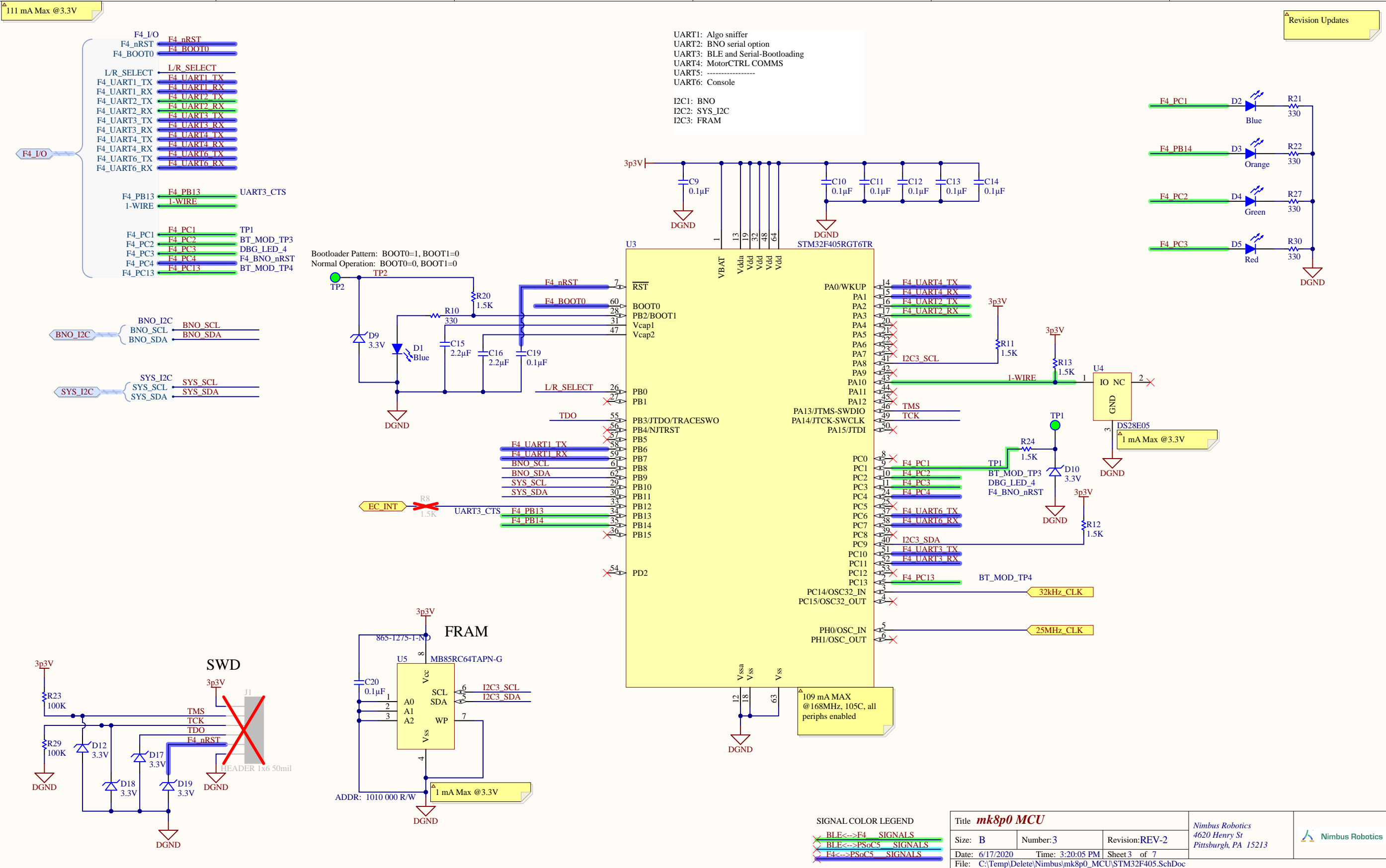


13 mA Max @3.3V

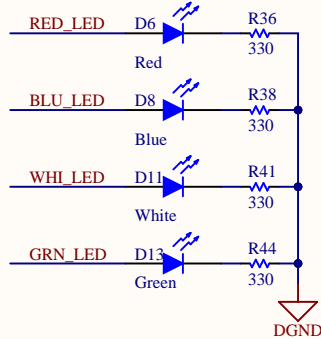
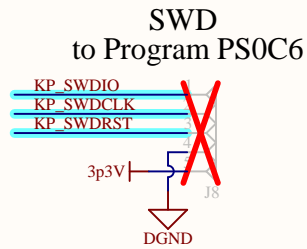
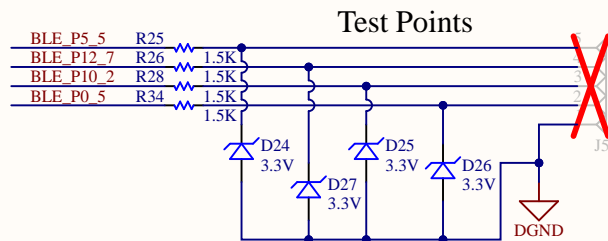
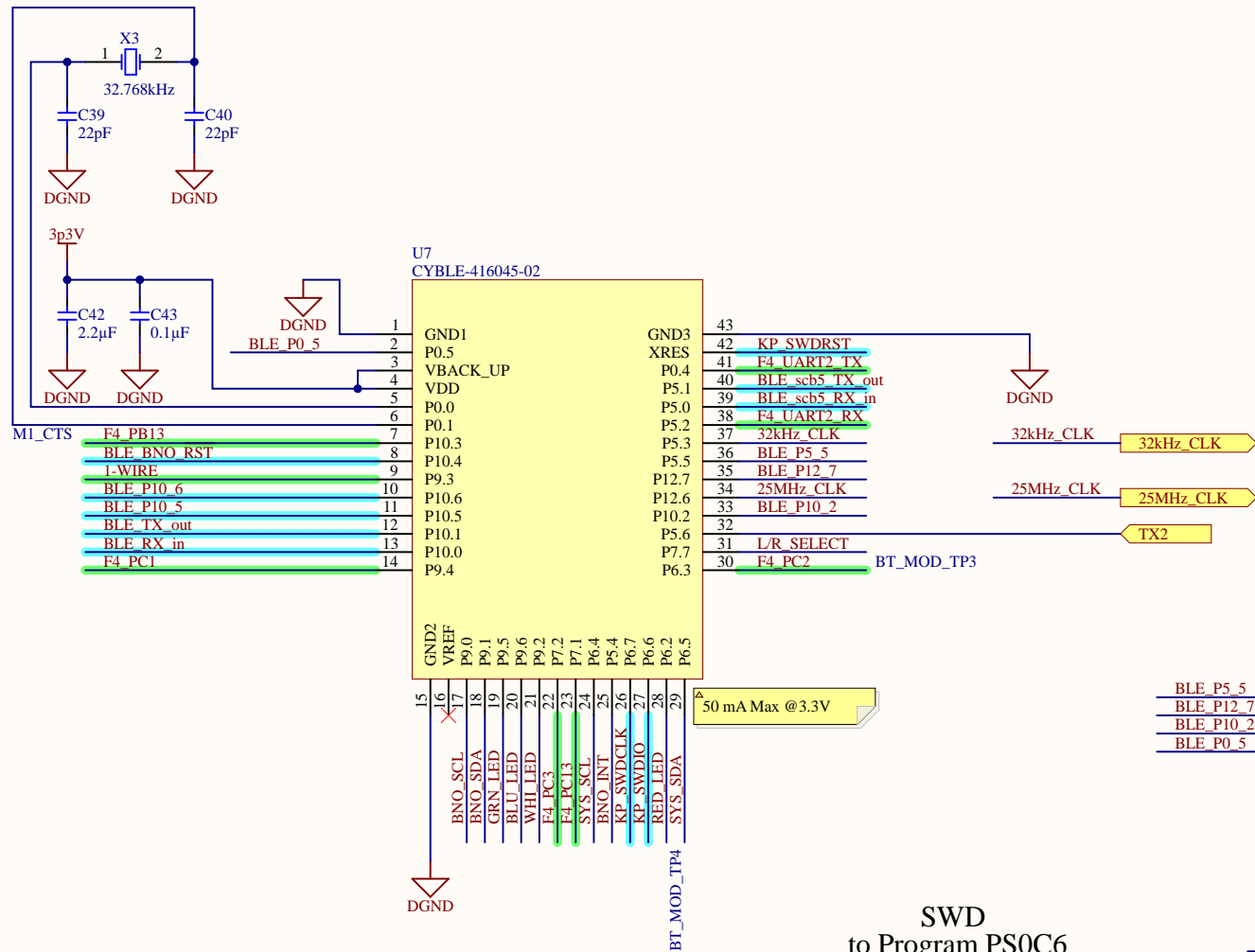
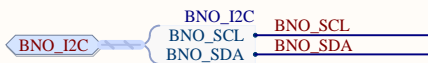
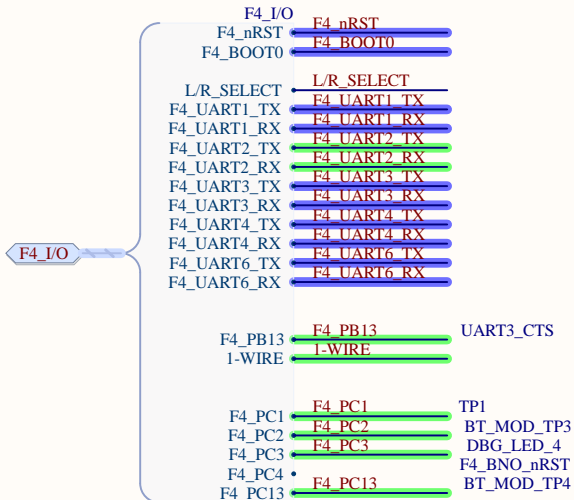
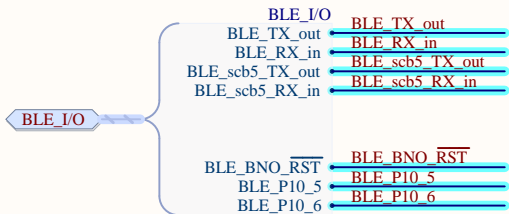
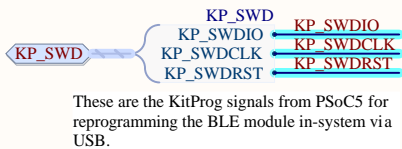
Revision Updates





50 mA Max @ 3.3V


Revision Updates



4/21, idea for adding 3rd UART
- In order to accommodate a 3rd UART on BLE module for Boris: 1 sniffer, 1 console (M4 or M0), 1 UART to talk to F3:
- remove SYS_I2C port and replace with a UART
- connect new UART to UART2 of F4 (already on this page, just swap pins)
- F4 can re-route signal to PSoC5 for external exposure
- probably want to also connect this new UART to TPs

SIGNAL COLOR LEGEND

- BLE<-->F4 SIGNALS
- BLE<-->PSoC5 SIGNALS
- F4<-->PSoC5 SIGNALS

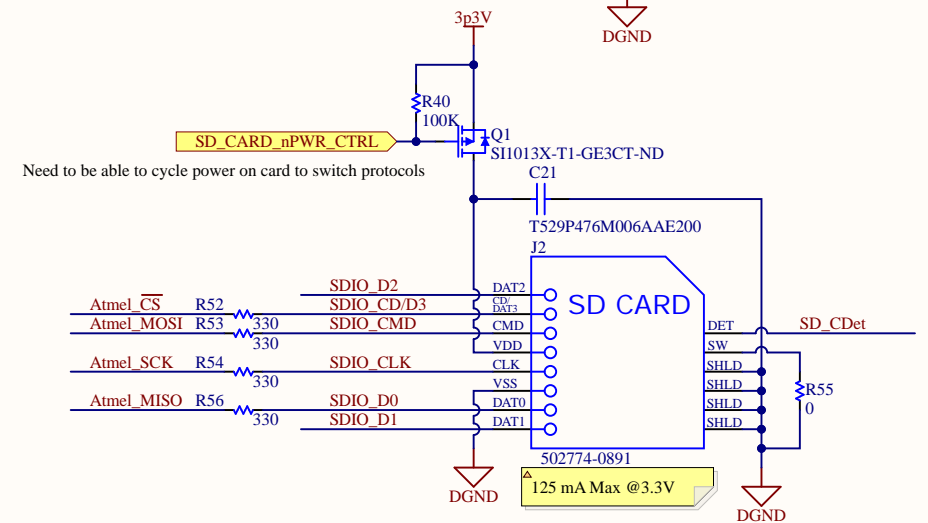
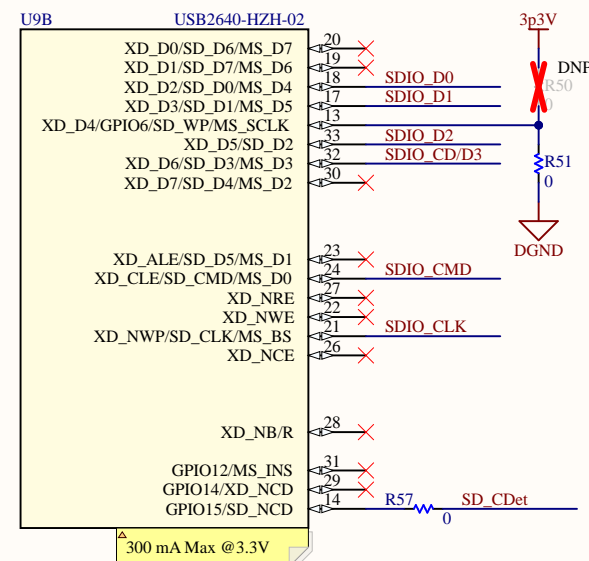
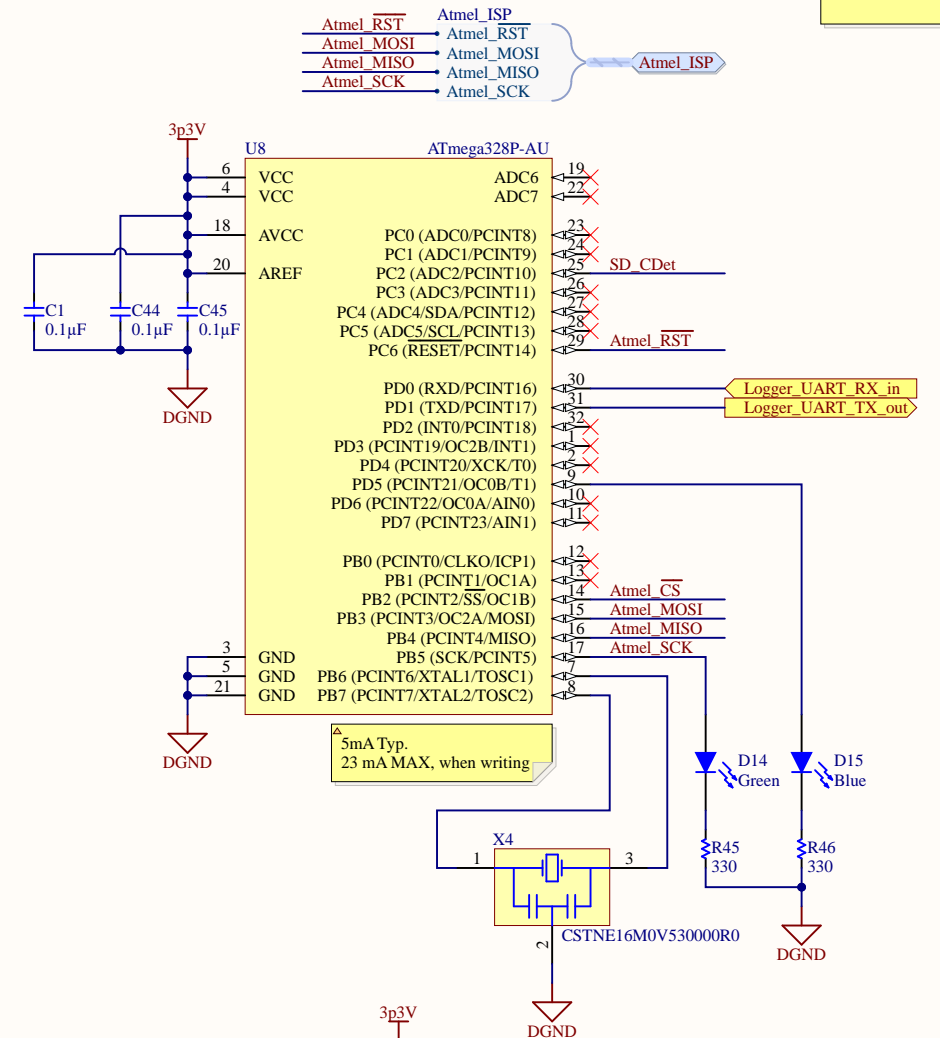
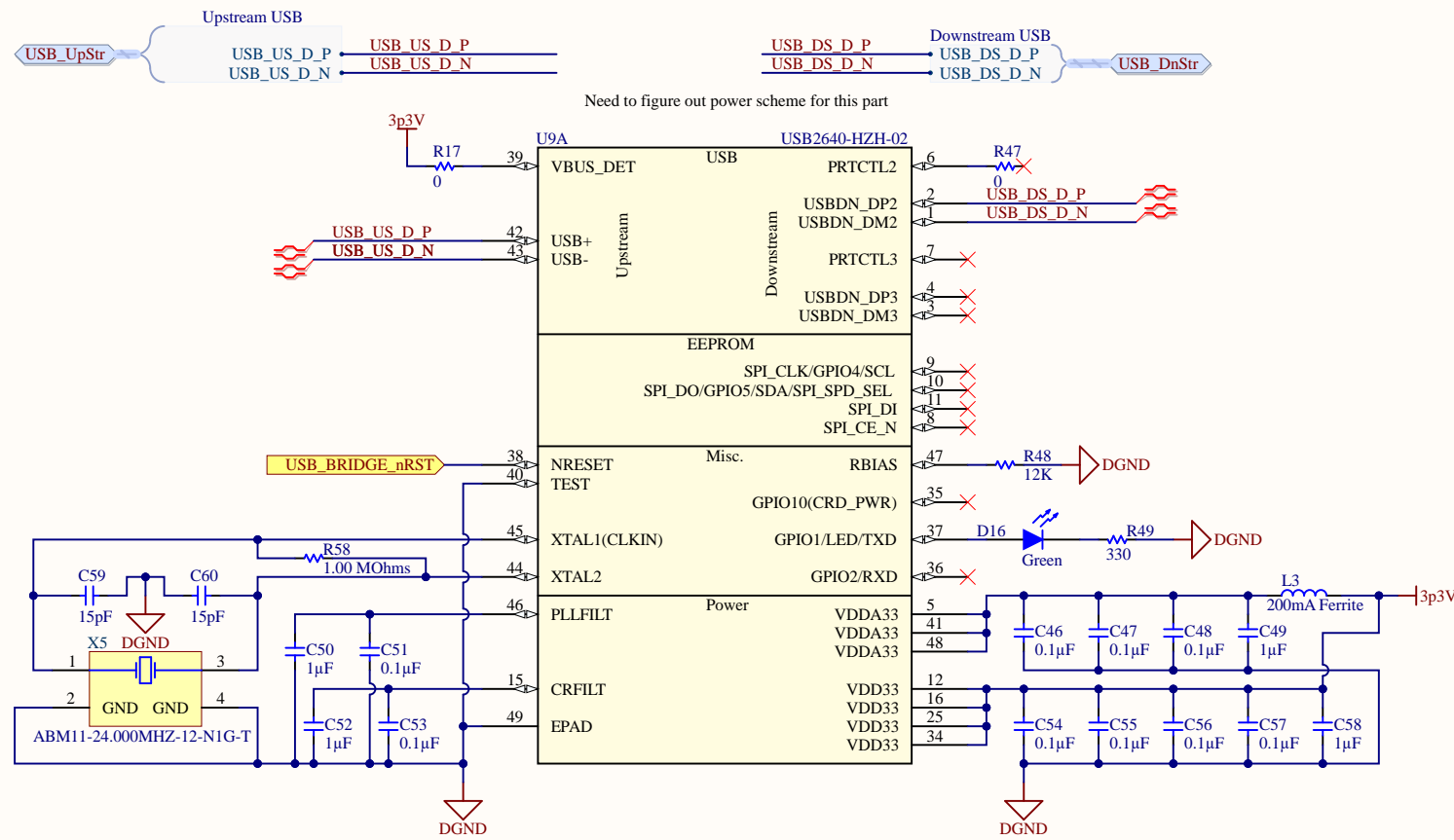
Title <i>mk8p0 MCU</i>			Nimbus Robotics 4620 Henry St Pittsburgh, PA 15213	 Nimbus Robotics
Size: B	Number:5	Revision:REV-2		
Date: 6/17/2020	Time: 3:20:06 PM	Sheet 5 of 7		
File: C:\Temp\Delete\Nimbus\mk8p0_MCU\BLE.SchDoc				


448 mA Max @3.3V

PSoC5 controls bridge-chip-reset, Atmel reset, and power to SD card. Using these signals it controls which chip can access the card, and which protocol is used (SDIO or SPI).

PSoC5 is notified by USB-PD controller when USB is connected, and then enables the bridge-chip, and disables Atmel.

Revision Updates



Title <i>mk8p0 MCU</i>			<i>Nimbus Robotics</i> 4620 Henry St Pittsburgh, PA 15213	 Nimbus Robotics
Size: B	Number: 6	Revision: REV-2		
Date: 6/17/2020	Time: 3:20:06 PM	Sheet 6 of 7		
File: C:\Temp\Delete\Nimbus\mk8p0_MCU\DataLogger.SchDoc				

