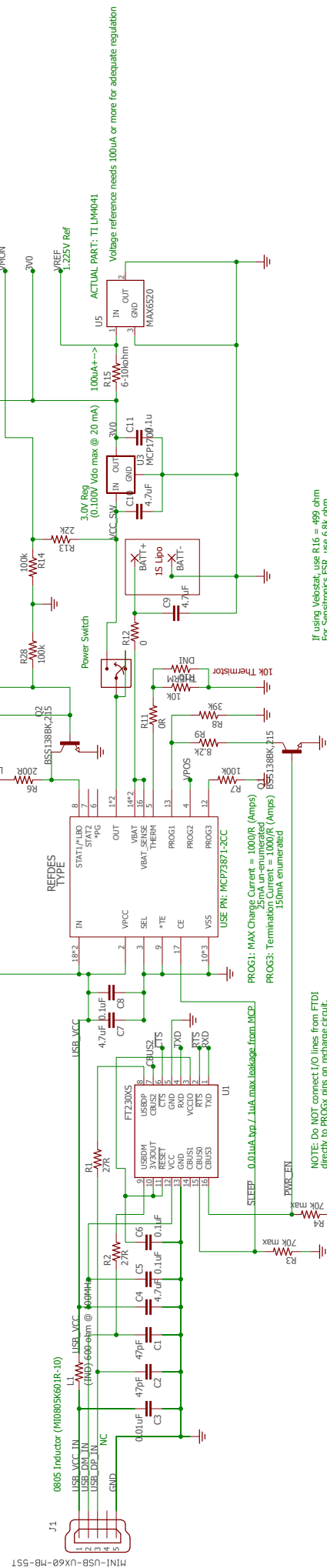


Changes from IC:  
 R16 Changed to 20k  
 C13 Changed to DNI  
 Added R28 to pull-down LED control node when powered off  
 Relocated C9 to after R12 (no electrical difference)  
 Added R29 to pull-down LED control node when not powered  
 Changed R21 from 10k to 2k for ADC performance

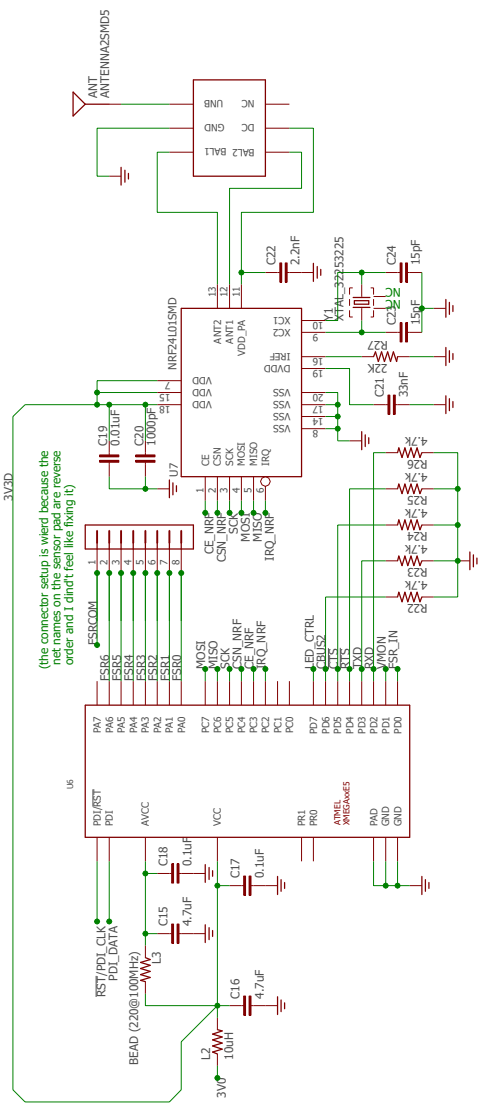
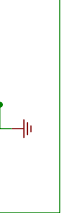
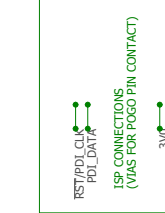
- Power budget
- 8.3mA FTDI (0 on battery)
- 3.7mA RECH (50uA shutdown)
- 3mA MCU
- 14mA NRF (typically 1mA)
- 0.1mA OPA
- 0.06mA REF
- 0.03mA LDO
- Total = 29.2 mA
- 30mA LEDs
- 30mA charge (non-enumerated)

LED1 = LOW BATT / Charging  
 LED2 = POWER EN (or MCU defined)  
 0.3V Shottky Drop @ 15mA  
 RED = 1.95V  
 Dual - Common Cathode



NOTE: Do NOT connect I/O lines from FTDI directly to PROGx pins on recharge circuit. If you do, you will damage the FTDI since I/O pins are push-pull, you don't want to drive current backwards to the PROG pins.

PROG1: MAX Charge Current = 1000R (Amps)  
 PROG3: Termination Current = 1000R (Amps)  
 150mA enumerated



Pull-downs prevent leakage currents from building up and creating false logic levels