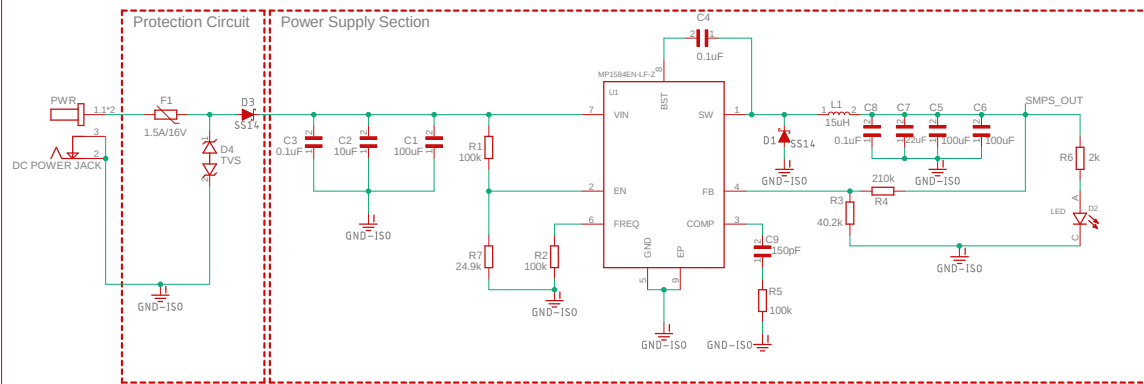
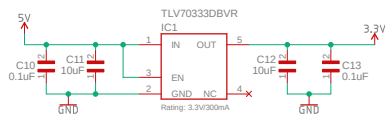


SMPS Circuit

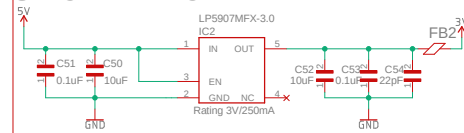


STM32 LDO



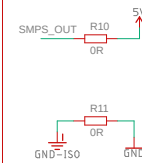
Place decoupling capacitors close to IC

SD CARD LDO

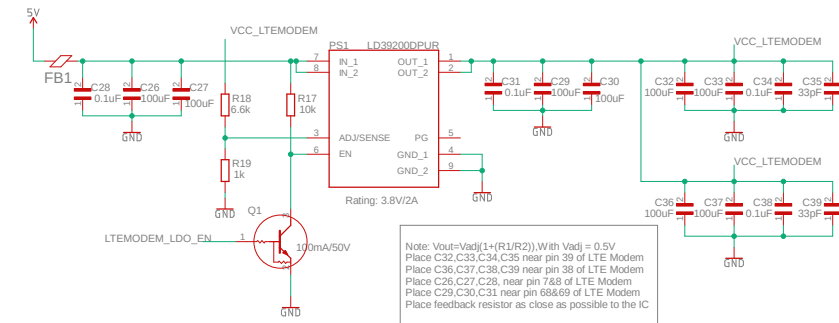


Place decoupling capacitors close to IC

Power Isolation

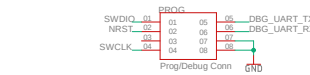


LTE MODEM LDO

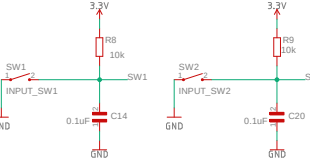


Note: $V_{out} = V_{adj}(1 + (R1/R2))$, With $V_{adj} = 0.5V$
Place C32,C33,C34,C35 near pin 39 of LTE Modem
Place C36,C37,C38,C39 near pin 38 of LTE Modem
Place C26,C27,C28, near pin 7&8 of LTE Modem
Place C29,C30,C31 near pin 68&69 of LTE Modem
Place feedback resistor as close as possible to the IC

SWD and Debug Interface



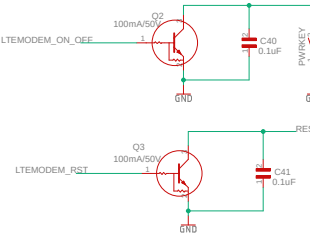
Switch Input



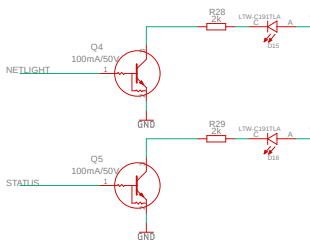
LED Indication



Reset / Powerkey Circuit

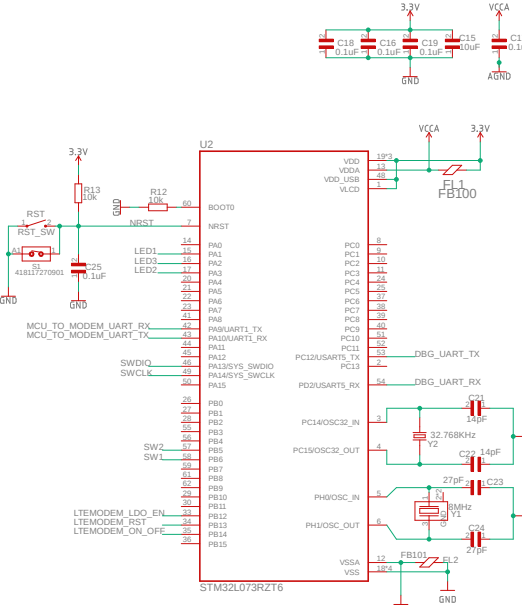


Network & Status LED

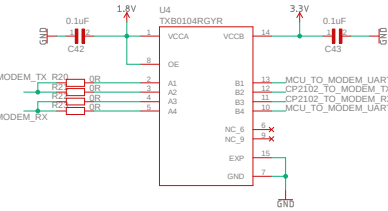


STM32 MCU Circuit

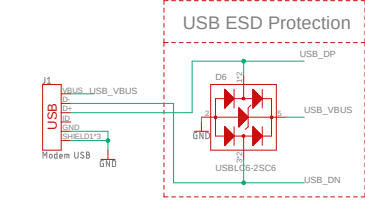
Note:Place C17 near PIN 13
Place C15 = 10 uF near pin 64,It is common for pin1 and pin64
Place C16,C18,C19 near rest of the VDD Pins



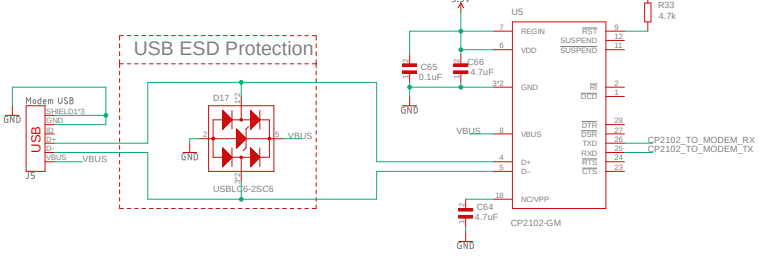
Voltage Level Translator



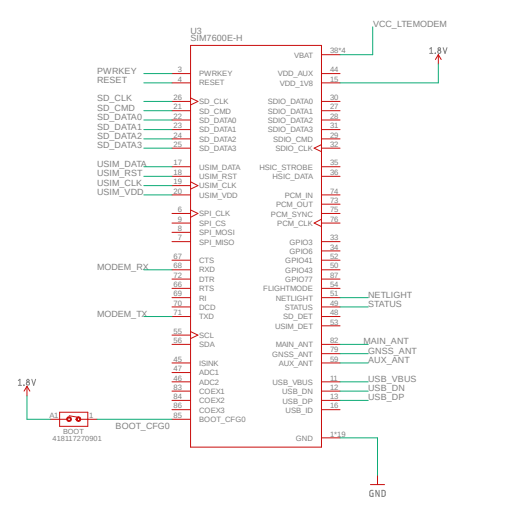
GSM USB Interface Circuit



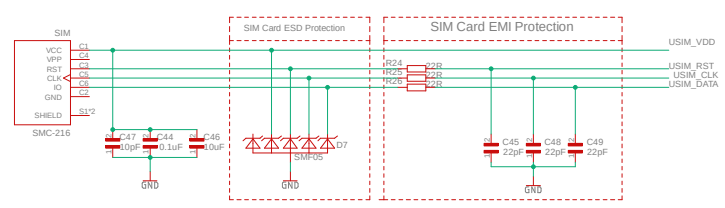
USB TO TTL CONVERTER



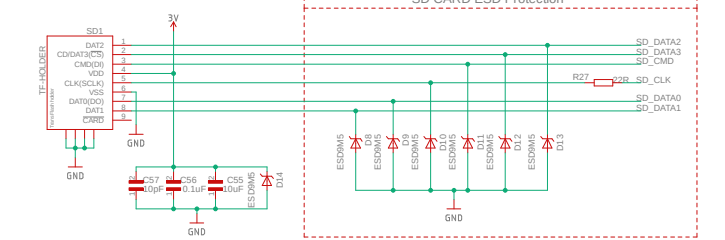
4G LTE Modem Circuit



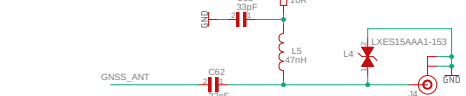
SIM Card Circuit



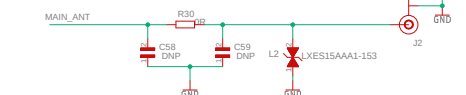
SD Card Circuit



GNSS Antenna



Main Antenna



AUX Antenna

