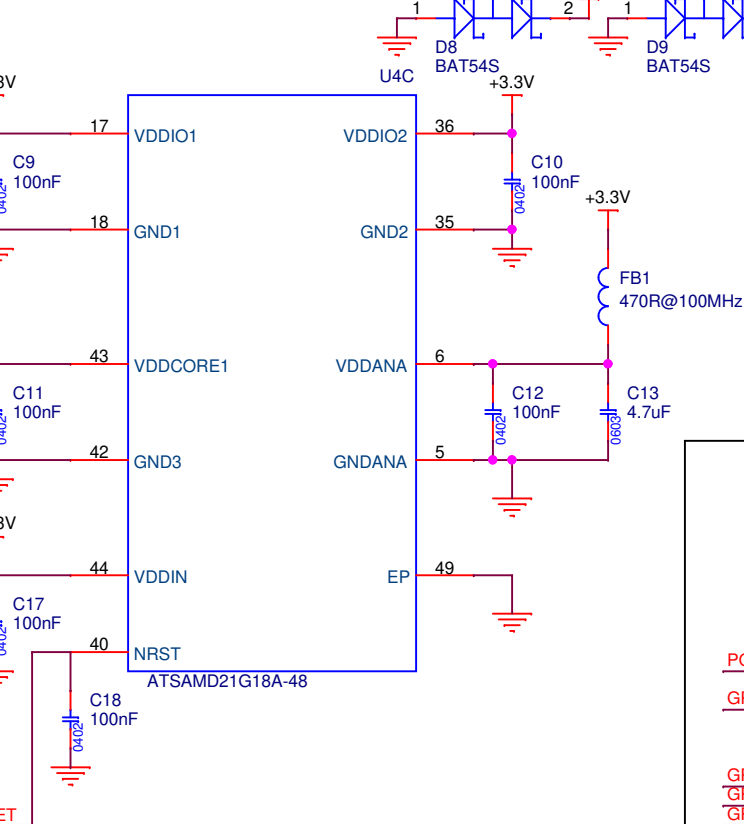
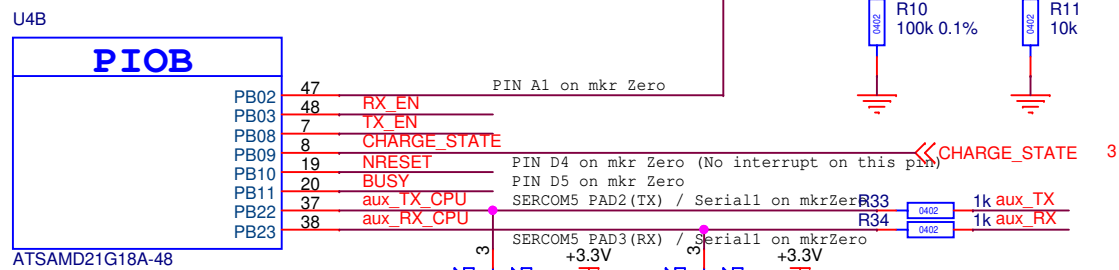
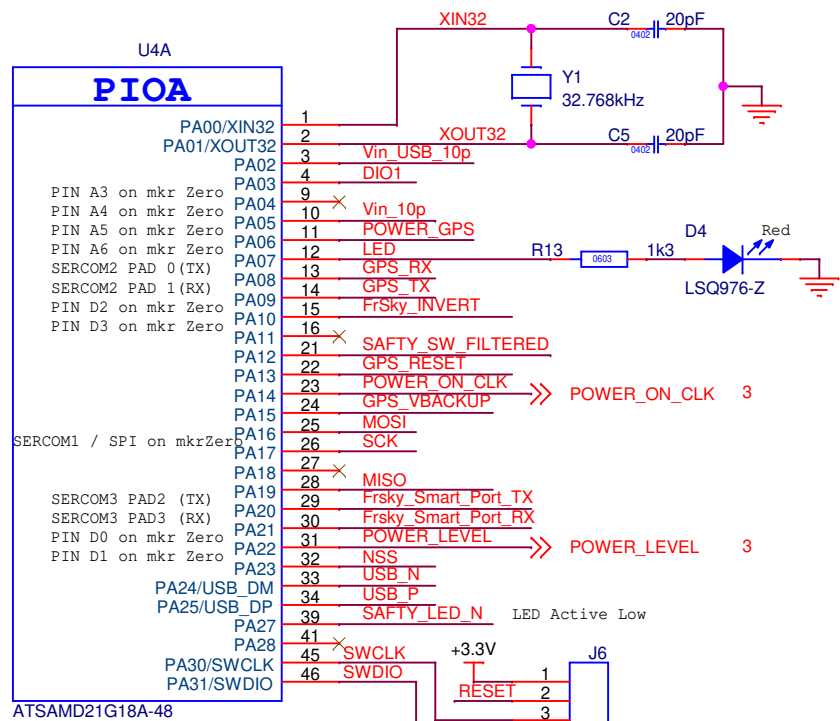


RC Transponder 2.4GHz

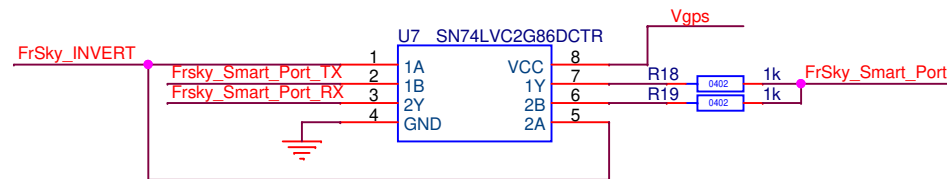
REVISION 1.20

Revision	History	Responsible
1.00	1 st revision (Now obsolete)	Kenneth Lagoni Olsen
1.10	DIO1 connection added to CPU. R8 must be changed to ensure Vin-pin doesn't exceed 3.3V when input is 11V. Pull-down on serial input (to avoid junk trigger if floating).	Kenneth Lagoni Olsen
1.20	Updated: Input regulator U2 changed to be able to handle input voltage up to 24V (before 11V was max). Input power selectors changed from Diode to Fet type, to ensure minimal voltage drop when on. Regulator U3 changed to LDLN025M33R. Input connector changed from 1x10 DF13 to 2x3 DF13 and 1 SIL3 for more rubust connectors to RX. Vbat resistors R9 / R10 changed and upgraded to 0.1% for better accuracy. 5V measuring resistor R30 changed to 100K. And also changed to Vusb. GPS changed from PA6H to Quectel LR80. Also now with Reset option from MCU. Li-ion charger U1 changed to MCP73831T-2ACI for better Charge state output. Removed: Pressure sensor U9 removed. RC / SBUS input removed. Added: Power On from MCU is now via flip-flop U11 in order to allow software to reboot without losing power. Charge state input to MCU for better battery monitoring. J6 connector for easy bootloader programming.	Kenneth Lagoni Olsen

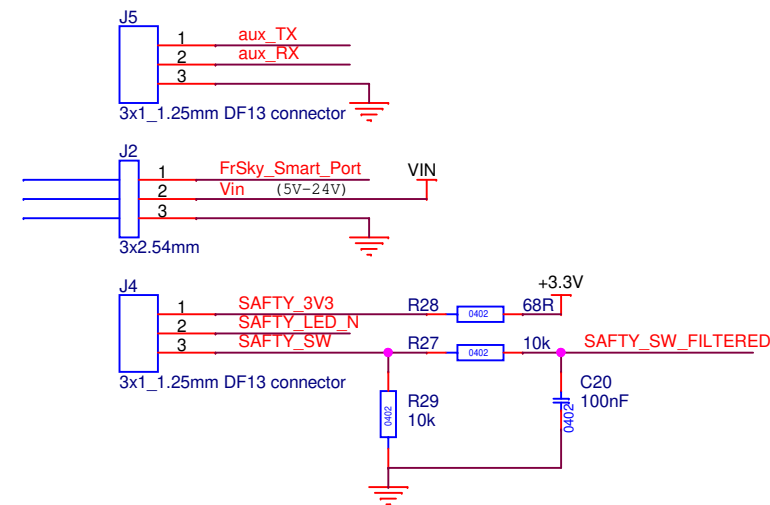
SERCOM0 -- Used for SPI (Radio)
SERCOM1 -- Used for GPS NMEA
SERCOM2 -- Used for frsky Smart Port
SERCOM3 -- Not Used.
SERCOM5 -- Used for aux Serial



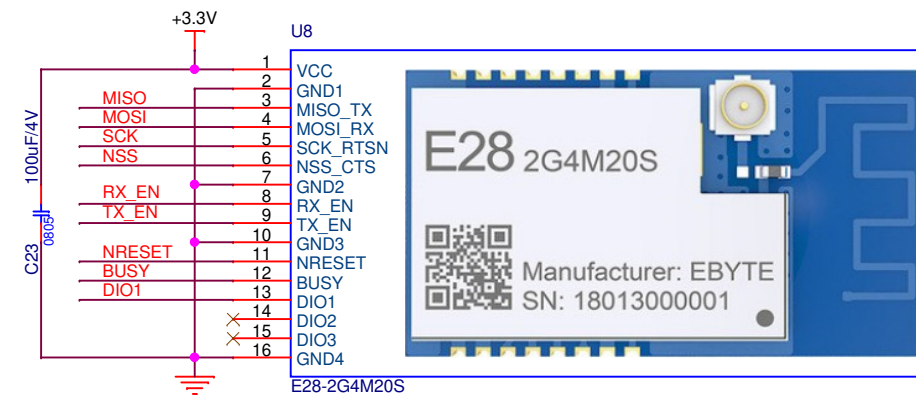
FrSky Smart Port



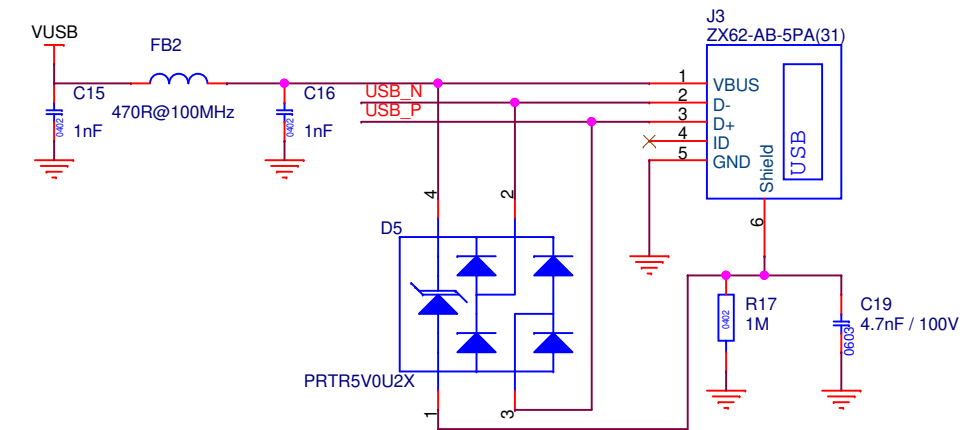
Input Connectors



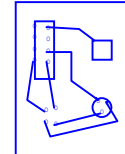
Radio Transceiver



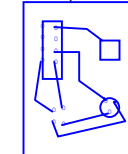
USB



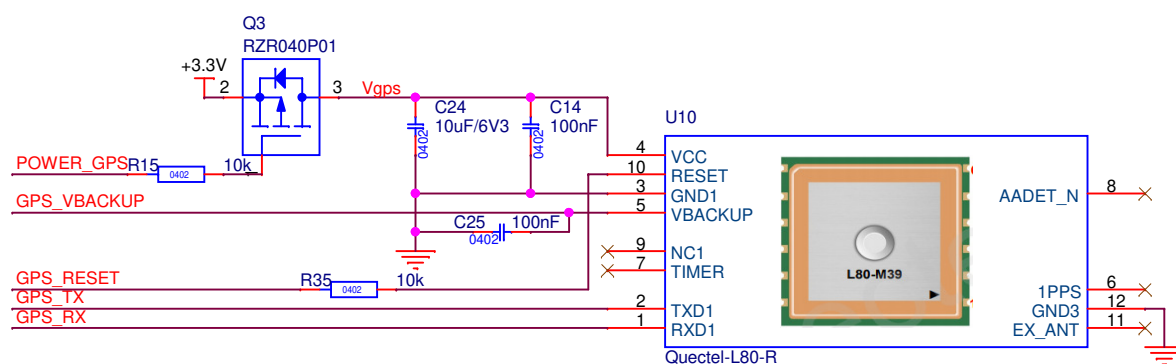
P1 Heat Shrink 6cm



PCB1 TransponderRC2_4-12



GPS Module



Title			CPU
Size	A3	Document Number	RC Transponder 2.4 Ghz
Date:	Friday, January 07, 2022		Rev 12
Sheet	2	of	3

