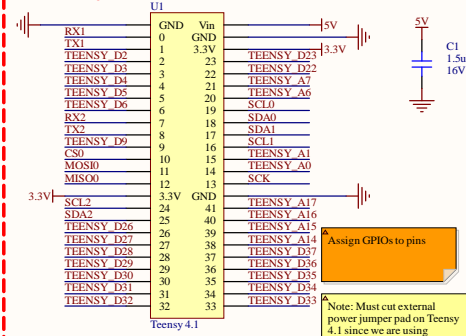


Replace 0402 resistors with 0805 resistors or 0603 resistors

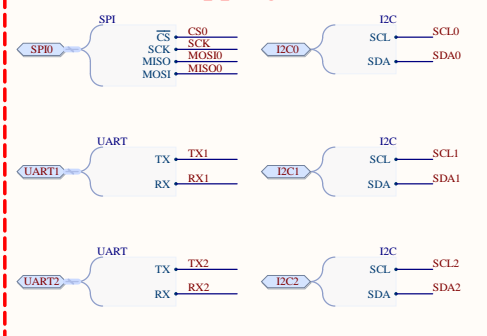
Teensy and IMU

Teensy 4.1

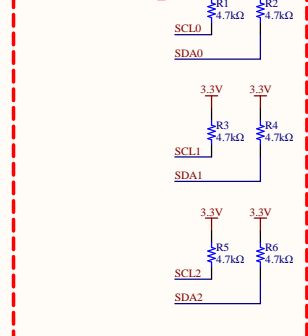


GPIOs:
Outputs:
- IMU_RST (Active Low): Reset. Pull low to reset the sensor
- GNSS_EXTINT: Customizable GNSS module external interrupt
- GNSS_RST (Active Low): Reset. Drive low to reset the GNSS module
Inputs:
- IMU_INT (Active Low): Interrupt/Data Ready. Indicates that the BNO085 needs the host's attention
- PWR_SRC: high = usb pwr, low = bat pwr
- CHARGE_STAT1, CHARGE_STAT2, CHARGE_PG: See datasheet for state diagram
- NetAv (Active High): Iridium Network Available signal
- RI (Active Low): Iridium Ring Indicator signal
- Onoff: Iridium on = high, Iridium off = low
Bidirectional:
Analog Inputs:

Serial I/O Mapping

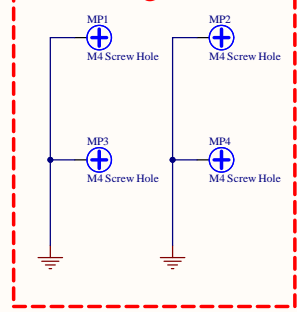


I2C Pullups



Mechanical

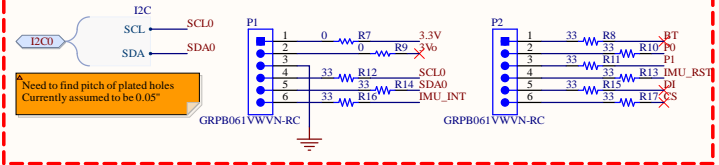
Mounting



Fiducials

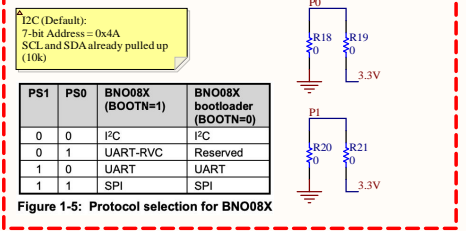


IMU



GPIO Breakout Connector

IMU Communication Select



External Buttons

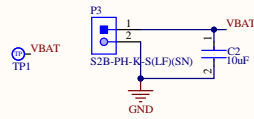
External LEDs

Project Name: Capstone PCB.PrjPcb	
Drawer: Cameron Gordon & Elise Cooke	
Variant: [No Variations]	
Revision: V1.0	
Date: 8/15/2023	
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Capstone 2023	

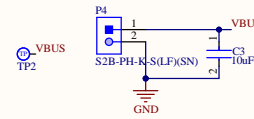
Power Management

Replace 0402 resistors with 0805 resistors or 0603 resistors

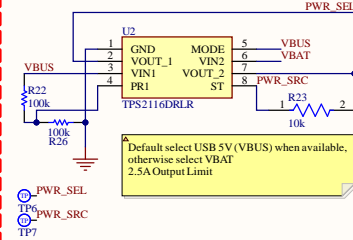
Battery Connector



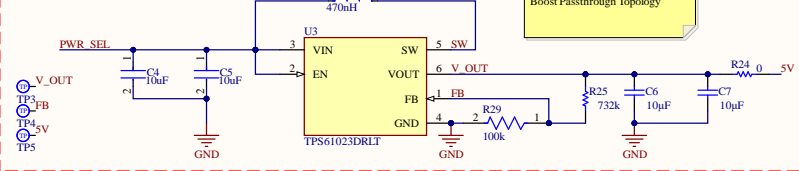
USB 5V Connector



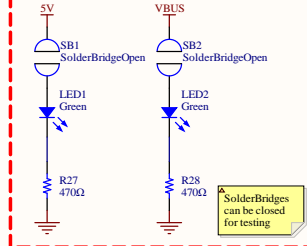
Power MUX



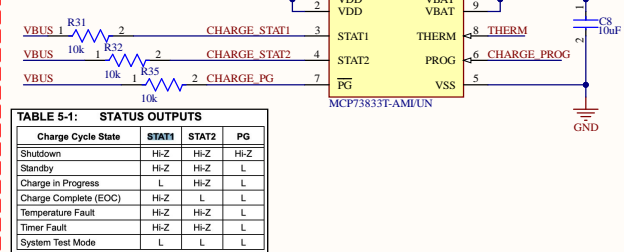
Boost Converter



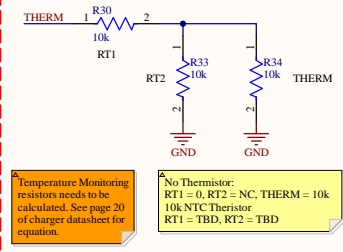
Power LEDs



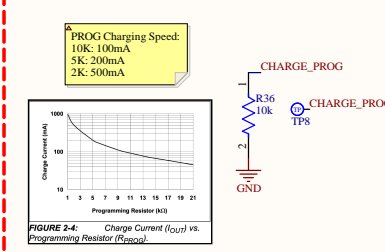
Battery Charger



Charge Temperature Set



Charge Current Set



Project Name: Capstone PCB.PrjPcb

Drawer: Cameron Gordon & Elise Cooke

Variant: [No Variations]

Revision: V1.0

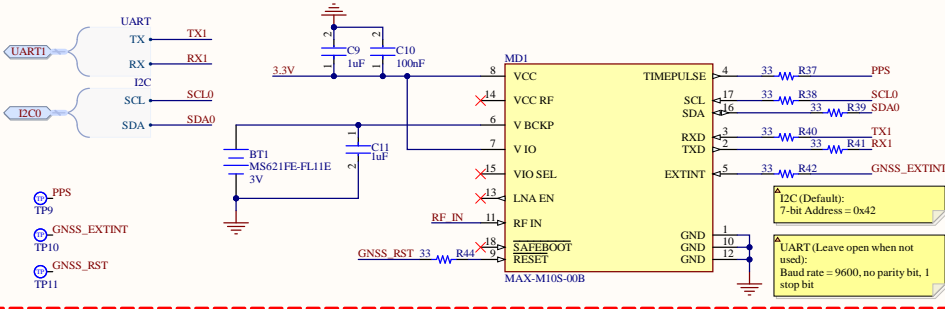
Date: 8/15/2023

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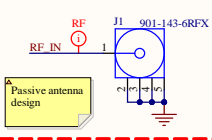
Capstone 2023



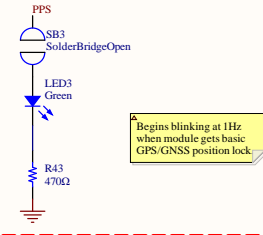
GNSS Module and Iridium Transceiver



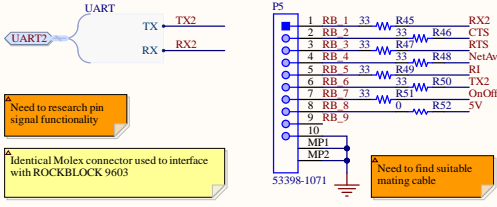
GNSS Antenna



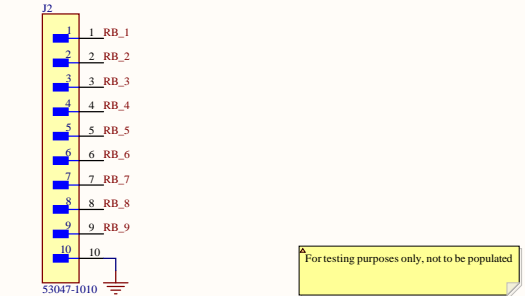
Position Lock LED



ROCKBLOCK 9603 Connector



ROCKBLOCK 9603 Breakout Header



Project Name: Capstone PCB.PrjPcb

Drawer: Cameron Gordon & Elise Cooke

Variant: [No Variations]

Revision: V1.0

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