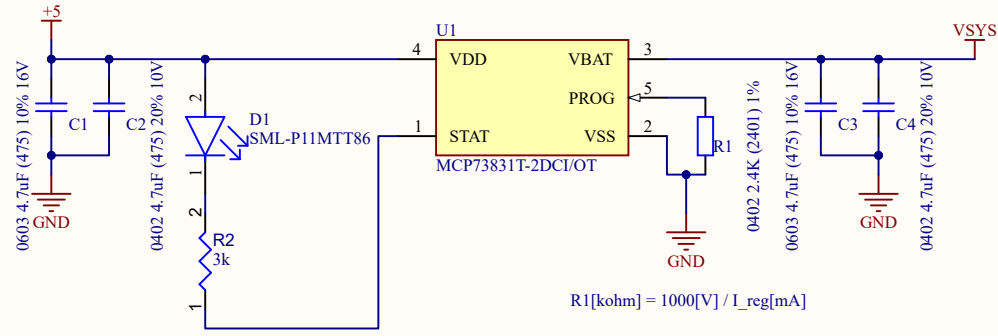
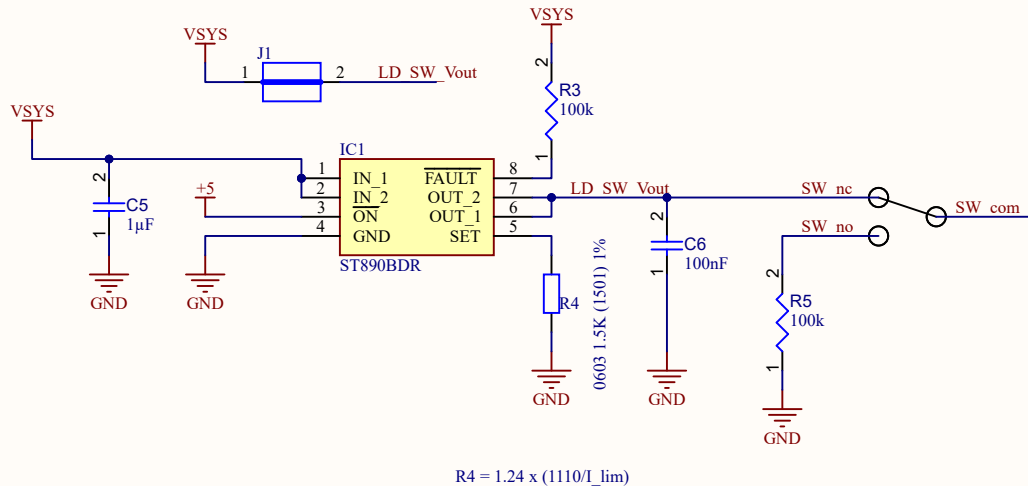


Battery Charging



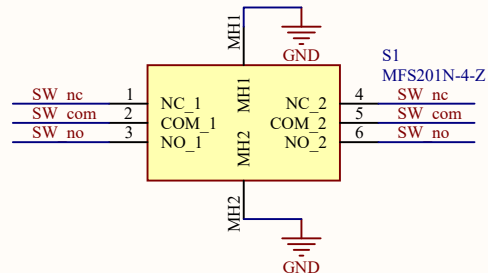
[U1] configured for 416.66 mA Max. charge current. Provides 4.2 V constant charging output. The input and output capacitors [C1], [C2], [C3], and [C4] surpass the minimum 4.7uF recommended by the manufacturer.

Load Switch.

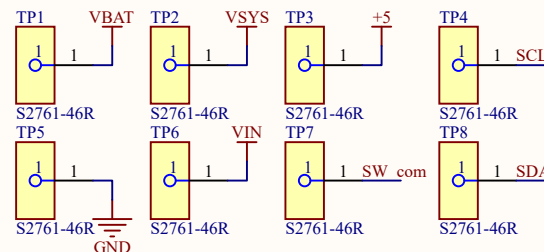


[IC1] Enables only when USB is disconnected. [R4] Limits the current to max 0.9176A Protecting the battery. The switch is used to turn ON and OFF the device when it is operating on battery. [J1] Normally Open, is tied in parallel to the IC for preventive reasons

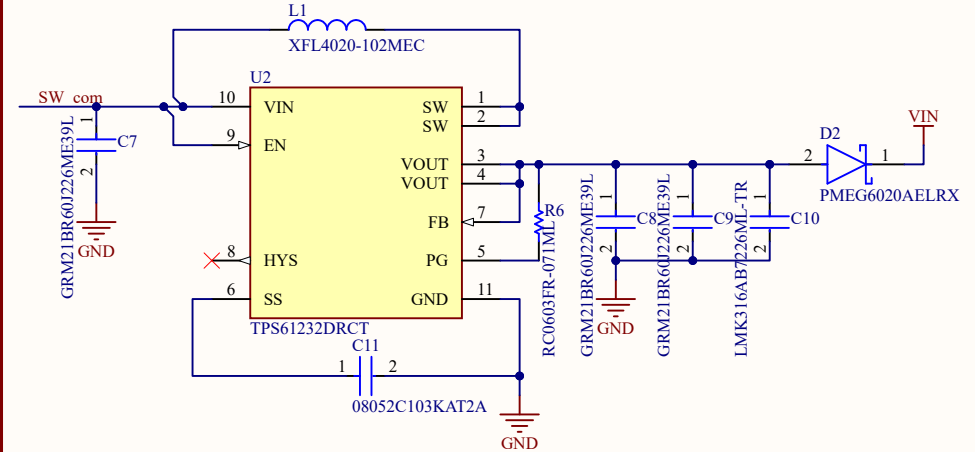
Switch Breakout



[S1] Is rated for 1A max. Chassis tied to ground. Both sides of the switch are shorted

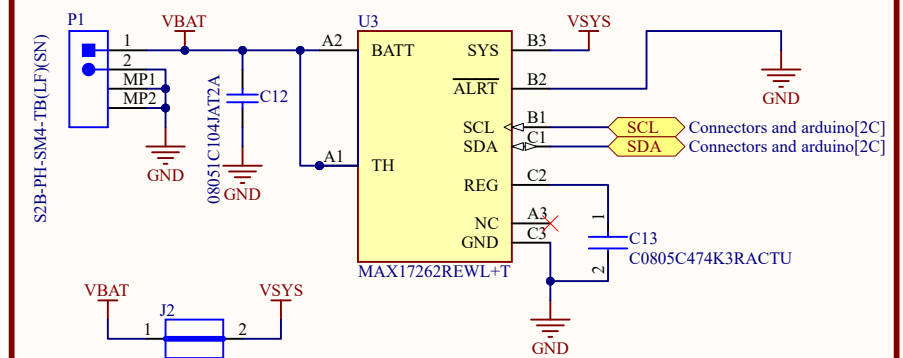


+5V Boost Converter



[U2] Can output 5V 2.1A. Series capacitors plugged to ensure voltage stability before the regulator internal to the Arduino. [D2] Protects from reverse current when the board is supplied via USB

Battery Connector & Fuel Gauge



[U3] is I2C controlled. Check datasheet for config. Beware on the BGA routing. [J2] Can be used to bypass the gauge meter

Title		
Size	Number	Revision
A4		
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