

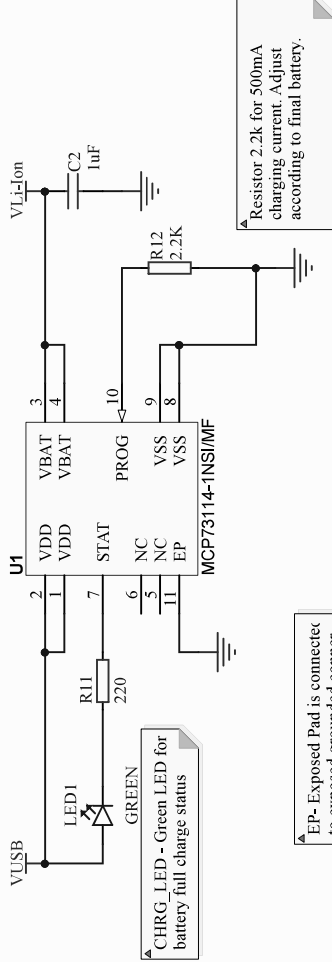
Sheet 1: Interconnection

Sheet 2: Power

Sheet 3: nRF Radio

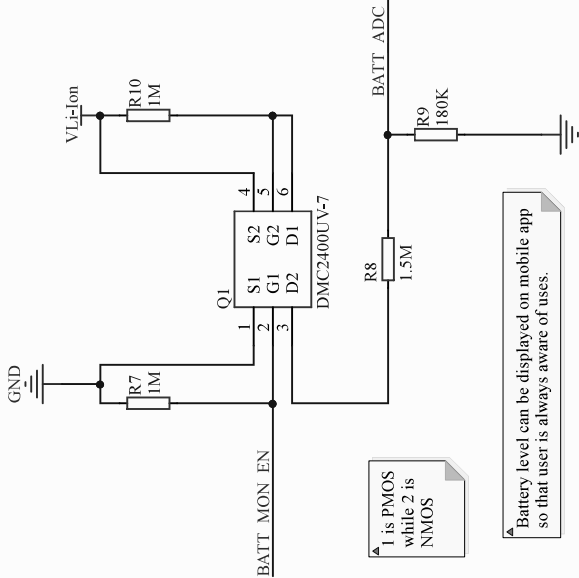
Sheet 4: Connectors

Li-Ion Battery Charge Management



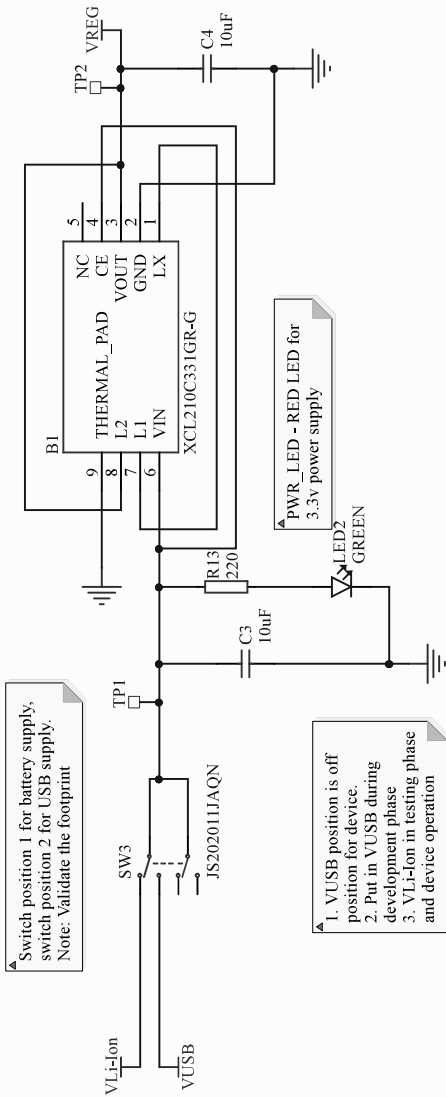
▲ EP- Exposed Pad is connected to exposed grounded copper area on PCB for thermal enhancement

Battery Voltage Monitoring



▲ Battery level can be displayed on mobile app so that user is always aware of uses.

Voltage Regulator Main Power Supply



▲ 1. V_{USB} position is off position for device.
2. Put in V_{USB} during development phase
3. V_{Li-Ion} in testing phase and device operation

▲ Switch position 1 for battery supply, switch position 2 for USB supply. Note: Validate the footprint

<div data-bbox="159 1131 718 2139"><h3>USB Connector / USB Detection</h3><p>USB_DETECT option might allow some programmable control during charging.</p></div>		<div data-bbox="949 1444 1300 2027"><h3>Battery Connector</h3><p>Optional schottky diode for reverse polarity</p><p>Connector should be a solder pad, not like a harness connector. Wearable designs have solder pad. Ref: https://www.minikits.com.au/LM2596-PSU-01</p></div>	
	<div data-bbox="566 123 1165 1086"><h3>Programming/Debug Connector</h3><p>Made w.r.t. nrf dongle and dongle tested with nRF52840 DK for debugging.</p></div>		

