RocketLogger Assembly Test

Required Hardware

- One or two power supplies with current limiting and measuring capability
- Multimeter or similar to measure voltages at specified test points

Instructions

- 1. Connect GND (P9 pins 1, 2 / TP413), all voltages are referenced to this connection
- 2. Connect 3.3 V (P9 pins 3, 4 / TP415)
 - 1. Current limit: 20 mA
 - 2. The idle current draw should be less than 10 mA (measured: 0.27 mA)
 - 3. The 3.3 V rail may be disconnected
- 3. Connect 5 V (P9 pins 7, 8 / TP412) using a lab PSU
 - 1. Current Limit: 1000 mA
 - 2. The current draw should be close to 0 mA
 - 3. Keep this rail connected for the remainder of the tests
- 4. Connect 5 V or 3.3 V to PowerEnable (P9 pin 13 / TP414)
 - 1. The current draw should be 5mA or 3.3mA respectively ($1k\Omega$ resistor to GND)
 - 2. The current draw on the 5V rail should now be: 135 mA \pm 20 mA
 - 3. Keep the PowerEnable connection for the remainder of the tests
- 5. Check all the voltage supply test points
 - 1. TP402: $+6.8 \text{ V} \pm 0.3 \text{ V}$
 - 2. TP403: $-6.8 \text{ V} \pm 0.3 \text{ V}$
 - 3. TP408: $+6 \text{ V} \pm 0.25 \text{ V}$
 - 4. TP409: $-6 \text{ V} \pm 0.25 \text{ V}$
 - 5. TP411: $+2.5 \text{ V} \pm 0.1 \text{ V}$
 - 6. TP410: $-2.5 \text{ V} \pm 0.1 \text{ V}$
 - 7. TP407: $+5 \text{ V} \pm 0.15 \text{ V}$
 - 8. TP406: -5 V \pm 0.15 V
- 6. Check the compensation test points
 - 1. TP404: $+400 \text{ mV} \pm 50 \text{ mV}$
 - 2. TP405: $-400 \text{ mV} \pm 50 \text{ mV}$
- 7. Disable and disconnect the power supplies