

Operating Instructions:

SW1 – Connects / disconnects power for long term storage and transport. Only RTC VBatt runs when the switch is off.

SW1 - Enables the two power switches and is powered by either Battery or DC-In

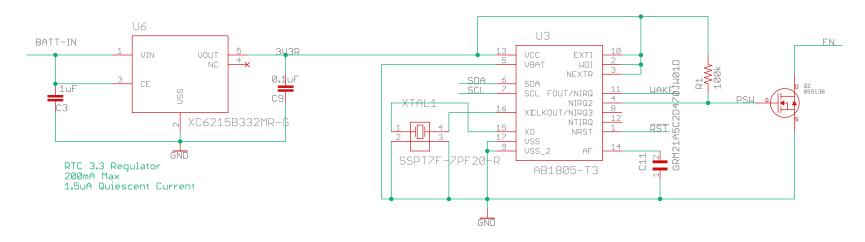
RTC Power will be the higher or Li+ or DC-In

Chip McClelland

v1.7

Particle Boron / Argon / Xenon Carrier Board - Real Time Clock

Power from the XC6215 stays on when when EN is pulled low or the power switch is off



Based on this Application Note https://github.com/particle-iot/app-notes/tree/master/AN023-Watchdog-Timers

Operating Instructions:

BATT-IN is on whenever a battery is connected

Li+ is on when there is a battery and when the switch SW1 is on.

This circuit combines both RTC and watchdog functionality

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CHANGE LOG

1.5 - Changed to AB1805 for RTC and Watchdog - Major Change 1.6 - Reduced the number of Quiic connectors - Minor Change 1.6a - Changed to vertical input for JST connectors - Minor Change 1.7 - Changed high-side switching from TI TPS22810 to P-MOSFET BSS215P and the Crystal- Minor Change