Set max battery current and o/p voltage

Boost Average Power, i/p current limit

Vout = 5V

Peek Power Rail

4.2V – 3.5V

Interface and Control

Set max battery current and o/p voltage

I2C

LED On/Off

Supercap active balance cct
Equilibrium leakage current ~3μA

Current Control

Dual-cell supercap

Current sense

Set LED current, enable LEDs

Other regulators for low power & constant power loads, e.g. MPU

Functions currently powered from the battery but could be powered from the same supercapacitor supporting LED Flash

Audio Amp

RF PA

Voltage set

Reg.