

just connect the GPOUT interrupt pin to one of your MCU's GPIO pins to get a heads-up when the tank is running low. And because of the built-in current-sensing resistor circuit, you can even measure your project's real-time current consumption.

The Battery Manager's BQ24075 battery charger IC can charge your single-cell lithium-ion battery pack at up to 1.5A.

Our Battery Manager board is based on Sparkfun's Battery Babysitter, and while the pin-out isn't exactly the same, their Hookup Guide is a great resource for getting started with our board as well

Note: This board requires the use of the Qwiic (4-pin JST-SH) connector for accessing the I2C functionality of the BQ27441-G1A. If you intend to use this board in a project where your MCU doesn't include a Qwiic connector, make sure you pick up a Qwiic-to-breadboard cable, or any [Qwiic cable](#) and a Qwiic adapter board.

Features:

- Protects the battery from running outside the safe operating area.
- Easy to connect to any ZIO products with one simple Qwiic cable.
- Features a dynamic power-path management which will maintain a solid output supply of 3.3V
- Contains a safety timer which will turn off the charger after 6.25 hours.

Specification

- Input Voltage- 6V max
- Output Voltage- 3.3V
- Output current- 1.5A max
- Qwiic connectors 3.3v and 1.5A max
- Battery Connector: PH Connector
- Battery Charger IC: BQ24075
- Power Manager IC: TPS63020DSJR
- Battery Gauge IC: BQ27441-G1
- I2C address:0x55
- Dimensions: 32.23x 33.24 mm
- Weight: 4.9g

Links:

- [Eagle files](#)
- [Learn more about ZIO](#)
- [Learn more about Qwiic](#)

More Product Picture:

