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Adafruit LC709203F LiPoly / LiIon Fuel Gauge and Battery Monitor

by Kattni Rembor
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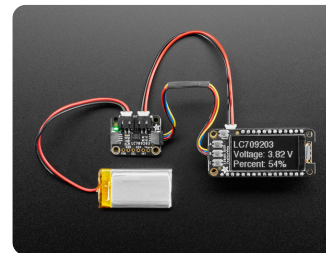
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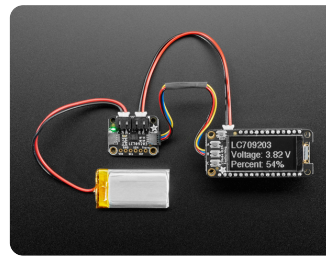
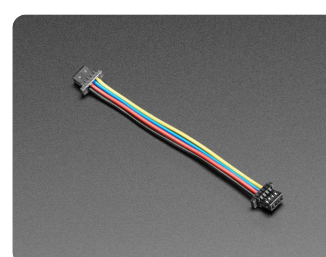Adafruit LC709203F LiPoly / LiIon Fuel Gauge and Battery Monitor
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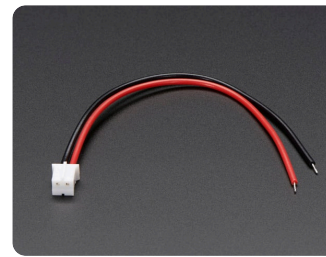JST-PH 2-pin Jumper Cable - 100mm long
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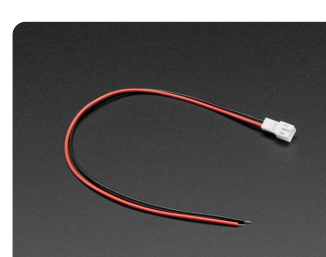
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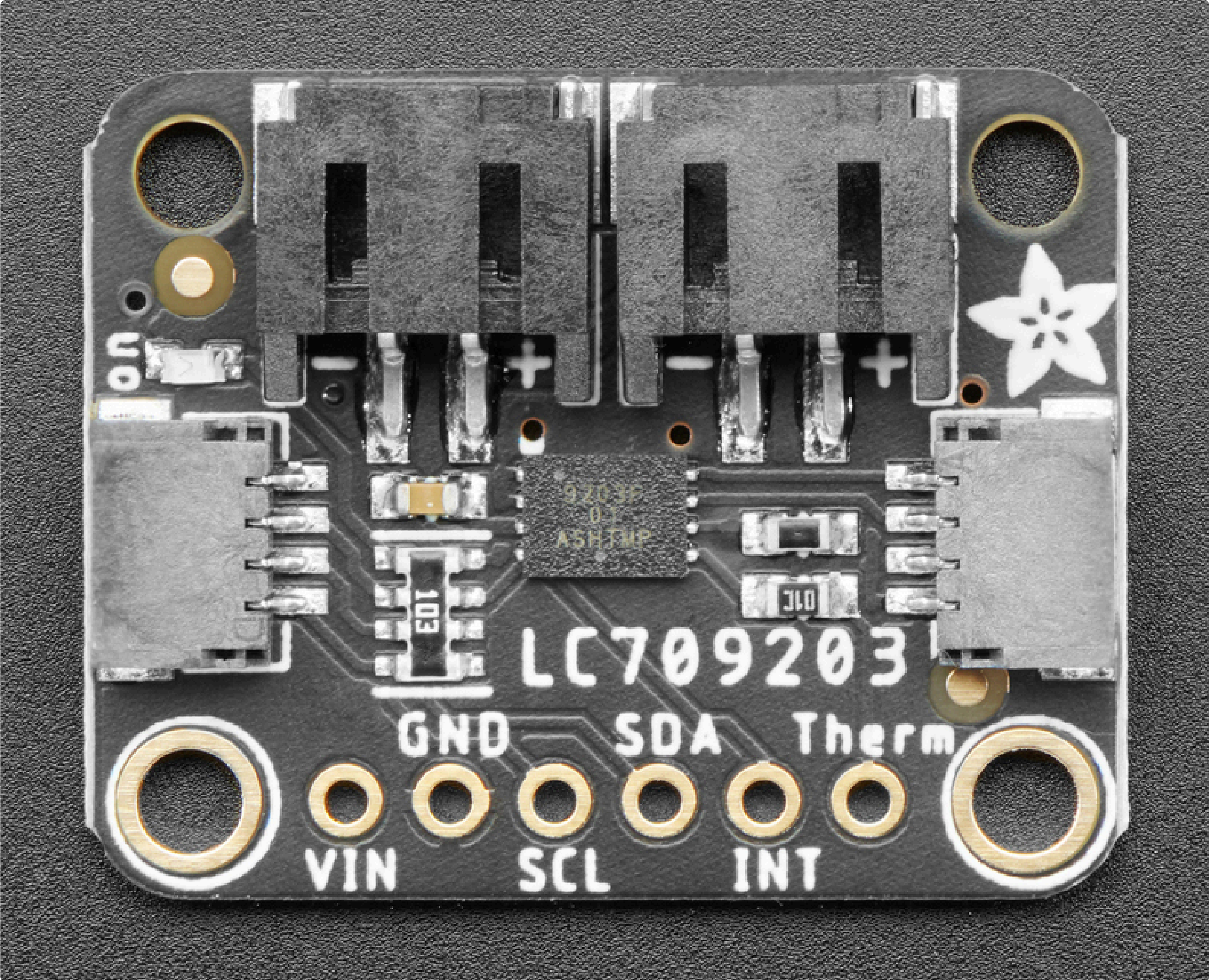
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Pinouts

⌁ Power Pins

- **VIN** - The chip can safely run from 3-5VDC. To power the board, give it the same power as the logic level of your microcontroller - e.g. for a 5V microcontroller like Arduino, use 5V
- **GND** - common ground for power and logic

> ❗ The LC709203F is powered by the connected battery, not by VIN or the STEMMA/QT connector. If no battery is plugged in, or the battery is too low, the LC709203F will not respond to I2C scans or commands.

⌁ I2C Logic Pins

- **SCL** - This is the I2C **clock pin SCL**, connect to your microcontroller's I2C clock line. There's a **10K pullup** on this pin.
- **SDI** - This is the I2C **data pin SDA**, connect to your microcontroller's I2C data line. There's a **10K pullup** on this pin.
- **STEMMA QT** - These connectors allow you to connect to dev boards with **STEMMA QT** connectors or to other things with various associated accessories

⌁ JST Ports

Theres are two JST ports, they are equivalent. Connect the battery to either one, then the load/charger to the other. **Watch out for battery polarity if not using an Adafruit battery!**

> ❗ The two ports simply connect together, and to the battery. You can use/charge the battery while connected by having the battery on one port, and then connecting a charger/project to the other

⌁ Other Pins

- **INT** - Interrupt signal out, you can set this up to pull low when the voltage or percentage drops below a threshold. Pulled up to VIN with a 10K resistor
- **Therm** - Connect a 10K thermistor to the THERM pin to read the battery pack temperature - our packs do not come with a built in thermistor but many do. The other side of the thermistor goes to ground.

⌁ LED Trace on the Back of the Breakout

There are two pads connected by a trace on the back of the board, labeled **LED**. If you want to conserve power when running only on battery, you can cut this trace to disable the LED on the breakout.

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