

# Grove Shield FeatherWing for all Feathers

## – Wio Lite

PRODUCT ID: 4357

The Grove Shield FeatherWing for Particle Mesh and all Feathers is an add-under for any Particle Mesh or Feather board, so that you can easily interface with Seeed's huge collection of Grove sensors. Now you can have full range of hundreds of Grove modules with Particle Mesh along with our Feather line!

Working with Grove requires no soldering. Just plug the sensors, actuators, or displays into this shield via a Grove cable (not included), so you can focus on coding and making!

You get 10 Grove connectors on this shield, including:

- 4 Grove analog connectors, 2 analog pins each, 5 analog pins in total (they're in pairs)
- 4 Grove digital connectors, 2 digital pins each, 5 digital pins in total (they're in pairs)
- 1 Grove I2C connector (these will also fit our 4-pin STEMMA connectors)
- 1 Grove UART connector (RX and TX)

This board has an unusual power supply setup where it disables the ENable on the 3.3V regulator and then has a buck converter to generate the 3.3V from VBAT or VUSB based on the switch. This should work with all our Feathers but it is a little odd because usually the 3.3V power supply is not separately-powered.

Please note that this board was designed for Feathers with our Feather 32u4 / M0 / M4 / nRF52840 / etc pin numbering! So the pin numbers next to each Grove connector match the pin numbering used on those Feathers. That is, after the I2C pins, the pins go D5, D6, D9, D10, D11 in that order.

If you're using *other* Feather boards, and only using the UART (RX/TX), I2C (SDA/SCL) or analog pins (A0–A5), the numbering will match up just fine since that's the same on pretty much all Feather boards (some, like the ESP8266, don't have A1–A5 pins). But for the *digital* connectors, you'll need to look and match the pin numbers from the Feather you've got to the Grove connects since some Feathers have different digital pin numbering. Or use a multimeter to verify connectivity. It's not a big deal as long as you know to watch out for it, and it only affects the 4 digital connectors.

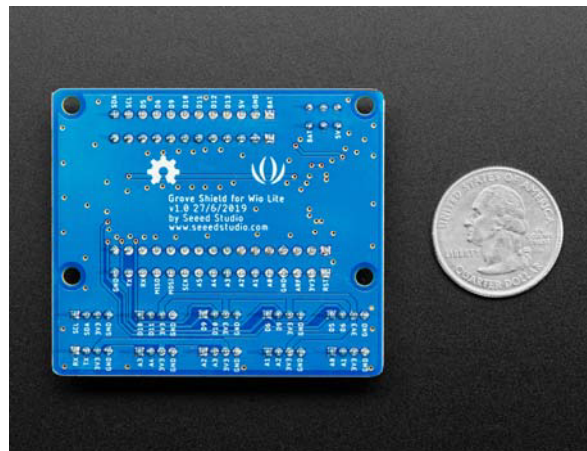
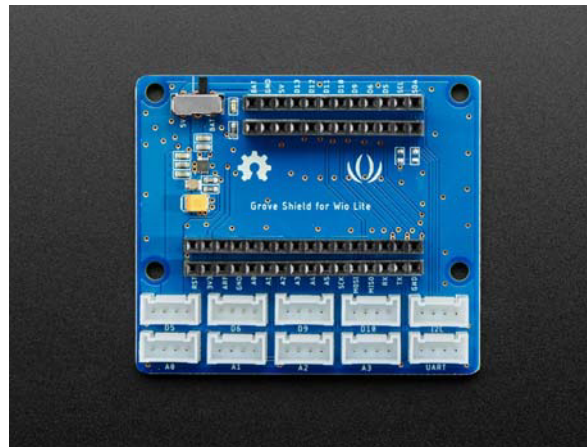
## TECHNICAL DETAILS

- Operating voltage: 3.3 / 5V
- Operation Temperature: -25°C to +85°C
- Analog Ports: 4
- Digital Ports: 4
- UART Ports: 1
- I2C Ports: 1
- 10 Grove Ports

- Power Mode Switch: If you use USB to power your Feather board, select the 5V mode. If you use the LiPoly battery, select the VBAT mode.
- Extra Female Pin Headers
- Seeed Studio Wiki

Product Dimensions: 60.0mm x 52.0mm x 11.5mm / 2.4" x 2.0" x 0.5"

Product Weight: 19.6g / 0.7oz



<https://www.adafruit.com/product/4357/9-11-19>