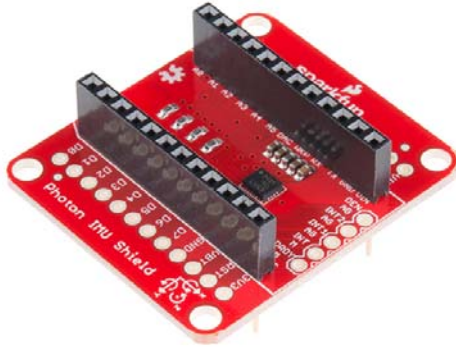


### Export Restrictions

This product has some level of export control/restriction, so may be delayed by 2-3 business days when shipping outside the United States. [Contact us](#) with questions, or we will contact you after you place your order.

## SparkFun Photon IMU Shield

DEV-13629 ROHS ✓ ✱



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**Description:** This is the SparkFun Photon IMU Shield, a versatile motion-sensing add-on board for your Photon device. Each IMU shield is equipped with an on-board LSM9DS1 system-in-a-chip that houses a 3-axis accelerometer, 3-axis gyroscope, and 3-axis magnetometer. That's right, 9 degrees of freedom (9DOF) from a single IC!

Each sensor in the LSM9DS1 supports a large variety of ranges: the accelerometer's scale can be set to  $\pm 2$ , 4, 6, 8, or 16 g, the gyroscope supports  $\pm 245$ , 500, and 2000  $^{\circ}/s$ , and the magnetometer has full-scale ranges of  $\pm 2$ , 4, 8, or 12 gauss. The SparkFun Photon IMU Shield comes with the headers already soldered on, so you can plug and play!

The Particle Photon is a tiny WiFi development kit for creating connected projects and products. Sporting a 120Mhz ARM Cortex M3 and built-in WiFi, the Photon is not only powerful, but easy to use. The small form factor is ideal for IoT projects with cloud-connectivity.

**Note:** Not only can this shield operate with the Photon, it can also be used with the Particle Core! We understand that there are a ton of you out there who still haven't been able to get your hands on a Photon yet and would like to start playing with this shield now. If that person is you we hope we have obliged!

**Features:**

- 3 acceleration channels, 3 angular rate channels, 3 magnetic field channels
- $\pm 2/\pm 4/\pm 6/\pm 8/\pm 16$  g linear acceleration full scale
- $\pm 2/\pm 4/\pm 8/\pm 12$  gauss magnetic full scale
- $\pm 245/\pm 500/\pm 2000$  dps angular rate full scale
- 16-bit data output
- Headers and Connectors Pre-Soldered
- Compatible with the Photon and the Core