



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

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The Sensor Kit comes with a Particle SIM card with service in more than 100 countries worldwide, and includes 3 months of Particle's 1MB monthly data plan for IoT devices. All Electrons also include Particle's development tools, access to a cloud platform with messaging, and a SIM dashboard for managing and updating your new connected hardware.

The Electron is a GSM-only device, and does not support CDMA networks.

Particle offers two types of Electron 3G Kits—**this one for North and South America (850/1900 MHz)**, and one for Europe/Asia/Africa (900/1800 MHz). Check the full list of compatible countries for the location in which your product will be deployed. <https://s3.amazonaws.com/particle-marketing-assets/CountryListings.png>

### Contents:

- 3 months of Particle's 1MB monthly data plan (delivered by email)
- 10 sensors for measuring acceleration, distance, temperature, humidity, motion, vibration, and gases
- Particle Electron PCB
- Particle SIM Card
- Li-Po battery (2000mAh)
- Taoglas Cellular Antenna
- USB cable
- Breadboard
- Pinout reference card
- Components for a sample product

A full list of included components is available here. <https://docs.particle.io/datasheets/photonshields/#sensor-kit-includes>

### Basic Data Charges\*:

- Particle's 1MB monthly data plan:
  - 3 months included with kit
  - \$2.99/month for 1MB (thousands of messages)
  - No contracts, cancel anytime
- \$0.99/each additional MB

3G Global version also available.

*\*Data rates vary by country and by data usage, see here for full pricing and bulk discounts.*  
<https://www.particle.io/pricing#cellular-data>

\*\* Continent compatibility is *simplified* and exceptions exist. Please be sure to check the full list of compatible countries for the location in which your product will be deployed.  
<https://s3.amazonaws.com/particle-marketing-assets/CountryListings.png>

# • Technical Details

## Specs:

- STM32F205 ARM Cortex M3 microcontroller
- 1MB Flash, 128K RAM
- Cellular modem: U-Blox SARA U-series (3G)
- 36 pins total: 28 GPIOs (D0-D13, A0-A13), plus TX/RX, 2 GNDs, VIN, VBAT, WKP, 3V3, RST
- Board dimensions: 2.0" x 0.8" x 0.3" (0.5" including headers)

Datasheet for the Electron <https://docs.particle.io/datasheets/electron-datasheet/>

## Click these links for all Particle product Troubleshooting:

- **Common Issues** <https://docs.particle.io/support/troubleshooting/common-issues/photon/>
- **Device LED Codes** <https://docs.particle.io/support/troubleshooting/troubleshooting-support/photon/>
- **Device Ownership** <https://docs.particle.io/support/troubleshooting/device-management/photon/>
- **Cloud Solutions** <https://docs.particle.io/support/troubleshooting/cloud-solutions/photon/>
- **Common Questions** <https://docs.particle.io/support/troubleshooting/common-questions/photon/>
- **System Modes** <https://docs.particle.io/support/troubleshooting/mode-switching/photon/>
- **Device Keys** <https://docs.particle.io/support/troubleshooting/key-management/photon/>
- **Connectivity Help** <https://docs.particle.io/support/troubleshooting/connection-help/photon/>
- **Troubleshooting Tools** <https://docs.particle.io/support/troubleshooting/troubleshooting-tools/photon/>



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