



## Electron 3G Kit (Eur/Asia/Afr)



The Electron is a tiny development kit for creating 3G cellular-connected electronics projects and products. It 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.

The Electron kit also includes Particle's development tools and cloud platform for managing and updating your new connected hardware.

The Electron is a GSM-only device, and does not support CDMA networks. We offer two types of Electron 3G Kits—one for North and South America (850/1900 MHz) and one for Europe/Asia/Africa (900/1800 MHz). For a full list of compatible countries, please visit the link here and see the “Compatible Countries” list below. <https://s3.amazonaws.com/particle-marketing-assets/CountryListings.png>

### **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

### **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)

### **Contents:**

- 3 months of Particle's 1MB monthly data plan (processed upon SIM activation)
- Particle Electron PCB
- Particle SIM Card
- Li-Po battery (2000mAh)
- Taoglas Cellular Antenna
- USB cable
- Breadboard
- Pinout reference card
- Components for a sample product

## Country Compatibility \*\*:

- Europe
- Asia
- Africa

*\*Data rates vary by country and by data usage, see [here](#) for full pricing and bulk discounts.*

\*\* 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.