Chipsmall

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!
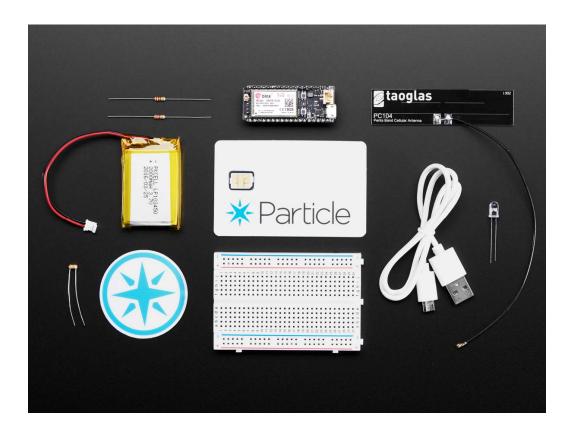

Contact us

Electron Cellular IoT Kit - 3G Americas/Aus

PRODUCT ID: 3234

- # Description

The Electron is a small cellular IoT board made by Particle. This tiny development kit has everything you need for creating **3G** cellular connected products. Includes a prepaid, no contract data plan and instant web access to your Electron with wireless programming.

Kit includes:

- o Microcontroller
- o Particle SIM card with service in more than 100 countries worldwide
- o 3 months of Particle's 1MB monthly data plan (delivered by email)
- o Antenna x 1
- o 2000mAh battery x 1
- o USB cable x 1
- o Half-size breadboard x 1

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

GSM 850/1900 MHz for use in North & South America, and Australia.

Please note that the Electron is a GSM-only device, and does not support CDMA networks. For a full list of compatible countries, please visit the link here and see "Compatible Countries".

https://s3.amazonaws.com/particle-marketing-assets/CountryListings.png

Electron 3G Type	Compatible Countries (Listed Alphabetically)
Electron 3G (Americas) 850/1900 MHz	United States, Argentina, Australia, Canada, Chile, Colombia, Costa Rica, Dominican Republic, Ecuador, El Salvador, Guatemala, Honduras, Mexico, Nicaragua, Panama, Paraguay, Peru, Puerto Rico, Venezuela
Electron 3G (Eur/Asia/Afr) 900/1800/2100 MHz	Austria, Bahrain, Belarus, Belgium, Botswana, Brazil, Bulgaria, China, Congo, Croatia, Cyprus, Czech Republic, Denmark, Egypt, Estonia, Finland, France, Germany, Ghana, Gibralter, Greece, Hong Kong, Hungary, Iceland, India, Indonesia, Ireland, Israel, Italy, Japan, Jersey, Kenya, Republic of Korea, Latvia, Liechtenstein, Lithuania, Luxembourg, Repbulic of Macedonia, Malawi, Malaysia, Republic of Moldova, Republic of Montenegro, Netherlands, New Zealand, Nigeria, Norway, Pakistan, Philippines, Poland, Portugal, Qatar, Reunion, Romania, Russian Federation, Rwanda, Saudi Arabia, Republic of Serbia, Seychelles, Sierra Leone, Singapore, Slovakia, Solvenia, South Africa, Spain, Sri Lanka, Swaziland, Sweden, Switzerland, Taiwan, United Republic of Tanzania, Thailand, Uganda, Ukraine, United Arab Emirates, United Kingdom, Uruguay, Zambia

- # 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)

- **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/