



## Boron LTE Kit

[ADD TO CART](#)

Buying in bulk? Visit the [wholesale store](#)

**\*Now available to order, shipping November 2018. If you add additional items to your order, your entire order will not ship until November 2018.\***

**Note: Particle's MVNO will provide support for LTE M1 connectivity in the US upon initial release. Not in the region? Check out the Boron 2G/3G Kit. See the [cellular FAQ](#) for details.**

The Boron LTE is a powerful LTE CAT-M1/NB1 enabled development kit that can act as either a standalone cellular endpoint or LTE enabled gateway for Particle Mesh networks. It is based on the Nordic nRF52840 and has built-in battery charging circuitry so it's easy to connect a Li-Po and deploy your local network in minutes.

The Boron is great for connecting existing projects to the Particle Device Cloud or as a gateway to connect an entire group of local endpoints where Wi-Fi is missing or unreliable.

All Particle hardware is designed from the ground up to work with the Device Cloud; a powerful set of tools and infrastructure to build, connect, and manage your IoT fleet. The Device Cloud for Particle Mesh will be priced by network. All Particle customers get 3 free months of Device Cloud access for micro networks using a cellular gateway. A micro network is defined as a network with 10 total devices and a single gateway. More pricing details to be released soon. In the meantime, check out our [documentation](#).

### ◦ Contents :

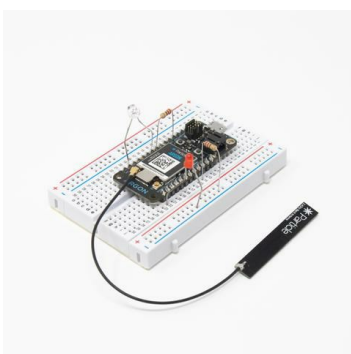
- Boron LTE dev board
- Mini breadboard
- Cellular flex antenna
- USB cable
- Starter project includes two resistors (220 ohm), one red LED, and one photodiode

### ◦ Specs :

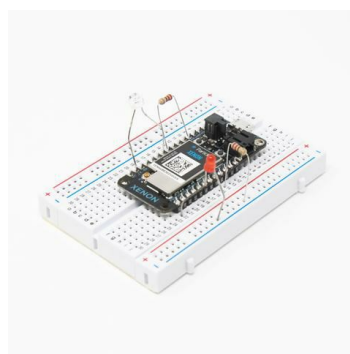
- u-blox SARA R410 LTE modem
  - LTE CAT M1/ NB1 module with global hardware support (MVNO support for US only)
  - 3GPP Release 13 LTE Cat M1
- Nordic Semiconductor nRF52840 SoC
  - ARM Cortex-M4F 32-bit processor @ 64MHz
  - 1MB flash, 256KB RAM
  - IEEE 802.15.4-2006: 250 Kbps
  - Bluetooth 5: 2 Mbps, 1 Mbps, 500 Kbps, 125 Kbps
  - Supports DSP instructions, HW accelerated Floating Point Unit (FPU) calculations
  - ARM TrustZone CryptoCell-310 Cryptographic and security module
  - Up to +8 dBm TX power (down to -20 dBm in 4 dB steps)
  - NFC-A tag
- On-board additional 2MB SPI flash
- 20 mixed signal GPIO (6 x Analog, 8 x PWM), UART, I2C, SPI
- Micro USB 2.0 full speed (12 Mbps)
- Integrated Li-Po charging and battery connector
- JTAG (SWD) Connector
- RGB status LED
- Reset and Mode buttons
- Dual SIM support: Nano 4FF (unpopulated) and MFF2
- U.FL connector for external antenna
- Meets the Feather [specification](#) in dimensions and pinout
- FCC and PTCRB certified
- RoHS compliant (lead-free)

Share:

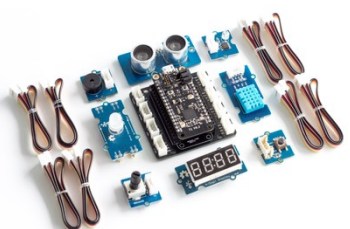
## Related Items



Boron 2G/3G Kit



Xenon Kit



Grove Starter Kit for Particle Mesh

**CORPORATE**

- Home
- Store
- Jobs
- Privacy Policy
- Terms of Service
- Shipping and Returns

**RESOURCES**

- Getting Started
- Documentation
- Support
- Blog
- Prototype to Production
- Open Source
- System Status

**CONNECT**

- Facebook
- Twitter
- Github
- Blog
- Community Forums
- Business Inquiries
- Contact Sales