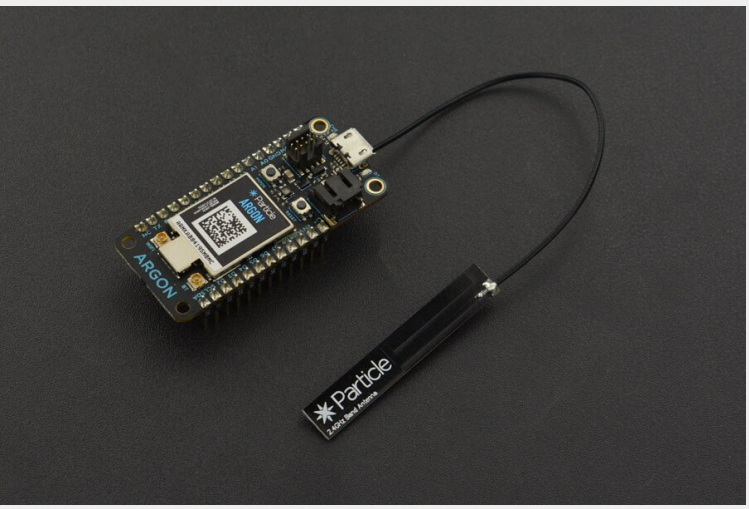
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Particle Argon IoT Development Board (Wi-Fi+Mesh+Bluetooth)

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INTRODUCTION

Note: Breadboard and USB cable are not included.

The Particle Argon is a powerful Wi-Fi enabled development board that combines the two most favorite 2.4GHz wireless protocols: Mesh networking and Wi-Fi. The board is designed to act as a standalone Wi-Fi endpoint or a Wi-Fi enabled gateway for a Particle Mesh network.

Argon is very small, you can easily cover it with one hand. It adopts the Nordic nRF52840 processor that can provide excellent performance in complicated applications. Meanwhile, Argon is equipped with large-capacity Flash, RAM and peripherals, including native USB support, and also has built-in battery charging circuitry so it's easy to connect a Li-Po. You can deploy your local network in minutes! The Argon is great for connecting existing projects to the Particle Device Cloud or as a gateway to connect an entire group of local endpoints.

All Particle hardware is designed from the ground up to work with the Device Cloud. This is a powerful set of tools and infrastructure to build, connect, and manage your IoT fleet. The Particle Could has some great features for building connected projects, including over-the-air firmware updates, and easy-to-use REST API, and firmware development supported by web and local IDEs.

SPECIFICATION

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

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Espressif ESP32-D0WD 2.4 GHz Wi-Fi coprocessor

- On-board 4MB flash for ESP32
- 802.11 b/g/n support
- 802.11 n (2.4 GHz), up to 150 Mbps

Main Parameters

- 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
- On-board PCB antenna
- U.FL connector for external antenna(one for thread/BLE, one for Wi-Fi)
- FCC, CE and IC certified
- RoHS compliant (lead-free)
- Dimension: 51.0 x 23.0 x 15.5mm/2.01x0.91x0.61”
- Weight: 8.8g

DOCUMENTS

- Product Wiki
- More Documents

SHIPPING LIST

- Particle Argon IoT Development Board(Wi-Fi+Mesh+Bluetooth) x1

REVIEW

FAQ

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