

## Avnet BCM4343W IoT Starter Kit



### Listing details

Reference Number: RF178793

#### Common

Price: \$ 49.95

Country: United States

Description:

Avnet BCM4343W IoT Starter Kit (IOT, Wireless, WiFi)

Manufacturer Part #: AES-EVB-BCM4343W-G

Alternate Part #: AES-EVB-BCM4343W-G

The Avnet BCM4343W IoT Starter Kit enables designers to easily prototype cloud-connected IoT designs and then rapidly move from development to production with a pre-certified wireless SoC module.

The Starter Kit features an Arduino form-factor baseboard and pre-certified Avnet BCM4343W SoC module. This Wi-Fi+BLE+MCU module combines an advanced Cypress's combo 2.4GHz 802.11 b/g/n WiFi and Bluetooth® 4.1 SoC, together with 8Mb of SPI Serial Flash and an STM32F411 ARM® Cortex M4 Microcontroller with 512KB Flash and 128KB SRAM. The baseboard includes access to the MCU's various peripherals via Arduino compatible headers as well as a 2x6 format peripheral connector, allowing connection to a range of expansion boards for sensors, motors, digital I/O and analog inputs.

Application development is supported by Cypress's WICED Software Development Kit (SDK), which includes connection to Amazon Web Services (AWS) and IBM® Watson IoT Platform through an intuitive integrated development environment. The starter kit simplifies cloud connectivity for designers in a variety of IoT market segments, including industrial automation, building automation and smart home appliances.

### Key Features

Arduino form-factor baseboard

#### Pre-certified Avnet BCM4343W SoC Module

- Wi-Fi + BLE + MCU module
- STM32F411 ARM Cortex M4 MCU
- 512KB Flash, 128KB SRAM, 8Mb SPI Serial Flash
- Supports 802.11 b/g/n and Bluetooth 4.1 (with an upgrade path to Bluetooth 4.2)
- Dual fractal PCB antennas supporting antenna diversity

#### Arduino compatible shield expansion connectors

- GPIO (4)
- Analog inputs (3)
- Two I2C ports (1 shared)
- SPI port
- Two UARTs (1 shared)
- Supports 3.3V I/O only

#### 2x6 Format peripheral expansion connectors

- I2C port (shared) USB Based JTAG debugger/programmer and serial UART port

#### Reset push button switch

- User push button switch
- Two user LEDs
- UART, JTAG and WLAN activity LEDs
- Ambient light sensor

#### USB Powered (5V), onboard high capacity 3.3V regulated supply

#### Purchase

product: <https://www.avnet.com/shop/us/p/kits-and-tools/development-kits/avnet-engineering-services/aes-evb-bcm4343w-g-3074457345629897677/>

Posted: 7 years ago

