

BeagleBoard.org > black-wireless

BeagleBone Black Wireless



What is BeagleBone® Black Wireless?

Replacing the 10/100 Ethernet port with onboard 802.11 b/g/n 2.4GHz WiFi and Bluetooth, the popular open source **BeagleBone® Black** computer now comes with built-in wireless networking capability. Leveraging a partnership with **Octavo Systems** and designed in CadSoft Eagle, BeagleBone® Black Wireless is the easiest to use and modify credit-card sized IoT Linux computer available.

Processor: **Octavo Systems OSD3358 1GHz ARM® Cortex-A8**

- 512MB DDR3 RAM
- 4GB 8-bit eMMC on-board flash storage
- 3D graphics accelerator
- NEON floating-point accelerator
- 2x PRU 32-bit microcontrollers


Software Compatibility

- Debian with Cloud9 IDE on Node.js w/ BoneScript library
- Third party support for Android and Ubuntu
- plus much more

Connectivity

- USB client for power & communications
- USB host
- 802.11b/g/n and Bluetooth 4.1 plus BLE
- HDMI
- 2x 46 pin headers

Purchase 

Select a distributor to buy 

BeagleBone Black Wireless Projects

Biometric Door Opener with Facial Recognition & Voice Output

Quickly automate any door with facial recognition, motion detection, motor control & text to speech

Android Interaction via Bluetooth RFCOMM

How to connect between an Android phone and BeagleBone Black Wireless using Bluetooth RFCOMM

UAV Drone Project

A flying software testing platform with which to develop new guidance methodologies

[See More Projects](#) »

BeagleBone Black Wireless Support

Getting Started

First step: connect your Beagle to this site

Hardware, Software and Ecosystem Discussion Groups

Collaborate and find support on the Beagle community forum

IRC Group Chat

Live chat with other open-source enthusiasts

Books

Read books to help you learn fundamental concepts

Hardware Specs and Materials

Browse the [BeagleBone Black Wireless Github page](#) to find all available hardware specifications such as:

- Bill of materials
- PCB source files
- Manufacturing files
- Schematic (PDF and source)
- System Reference Manual

Approved accessories

Capes

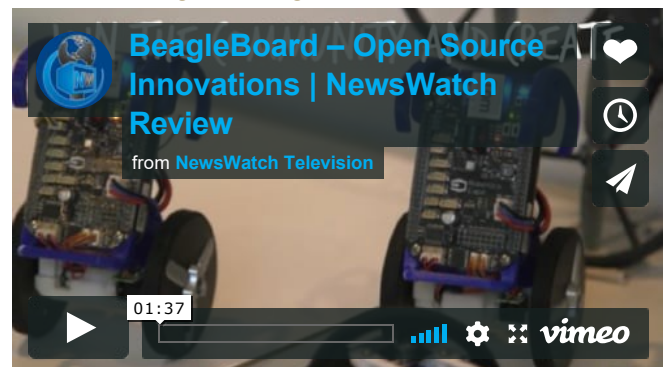
Videos

Learn about BeagleBone Black Wireless



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