



Open hardware computing for makers, educators and professionals

BeagleBoard.org released the first BeagleBoard, an affordable, open hardware computer in 2008 and updated with the extra performance BeagleBoard-xM in 2010. The more maker-focused, bare-bones credit card sized BeagleBone introduced in 2011 was updated in 2013 to create the most affordable BeagleBone Black. In 2015, the BeagleBoard line is again refreshed with the high-performance multicore and high-speed connectivity enabled BeagleBoard-X15.

The **BeagleBoard.org Foundation** is a US-based 501(c) non-profit corporation existing to:

- Provide education around the design and use of open-source software and hardware
- Foster communication between individuals interested in open-source software and hardware

BeagleBone Black

Real-time capable credit-card-sized Linux™ computer based on a Sitara™ processor has a low-cost design, on-board 4GB flash



storage, integrated microcontrollers and the ability to use over USB, making it the most affordable open-source development board around.

Specifications:

- 1-GHz ARM A8 CPU
- 2x200-MHz PRUs
- 512-MB RAM
- 4-GB eMMC w/Debian
- microSD card slot
- microHDMI video out
- USB host and client
- Ethernet
- 2x46-pin headers
- Board size: 3.4" x 2.1"

See BeagleBoard.org for details and to buy (~\$49)

BeagleBoard-X15

Top performing, mainline Linux enabled, power-users' dream board with a core tailored for every computing task and a high-speed interface for every connectivity need. Give your algorithms room to stretch!



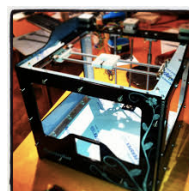
See BeagleBoard.org for details and to buy (~\$199)

Specifications:

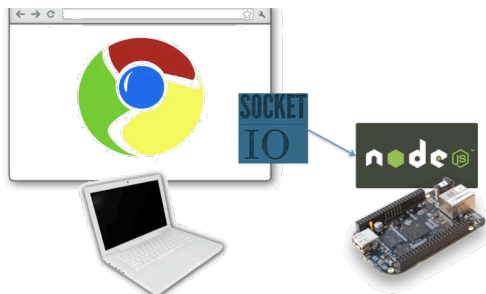
- 2x1.5-GHz ARM A15 CPUs
- 2x750-MHz C66 DSPs
- 4x200-MHz PRUs
- 2-GB RAM
- 4-GB eMMC w/Debian
- microSD card slot
- HDMI video output
- Stereo audio in/out
- 3xUSB 3.0 host
- 1xUSB 2.0 client
- 2xGigabit Ethernet
- eSATA (500mA)
- 4x60-pin headers w/PCIe, LCD, mSATA
- Board size: 4" x 4.2"

BeagleBone Capes

Capes are add-on boards that extend the functionality of BeagleBone Black to simplify the development of many common applications, such as 3D printing, industrial robotics, autonomous robots and flying drones, dedicated tablets, thin clients, home automation, automotive computing, gaming, digital signage and more.



Visit BeagleBoneCapes.com to learn more about available cape add-on boards (these are third-party products that add value)



Built-in web-based tutorial and editor enables simple programming of sensors, lights, motors and more within minutes of opening the box.

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