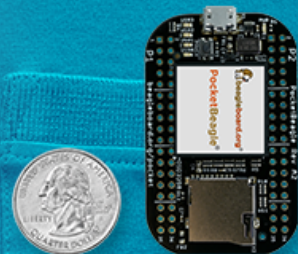




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# Is that a **Beagle** in your pocket?



**PocketBeagle**  
only \$25 dollars

# BeagleBone<sup>®</sup>

Explore the high-performance, low-power world with the tiny, affordable, open-source Beagles. Putting Android, Ubuntu and other Linux flavors at your fingertips, the Beagle family revs as high as 1GHz with flexible peripheral interfaces and a proven ecosystem of feature-rich "Cape" plug-in boards.

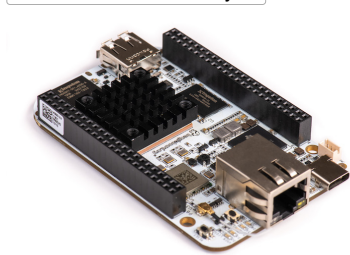
## BeagleBone AI

Multitude of powerful processing cores for diverse embedded computing needs in the familiar BeagleBone form-factor with more performance, memory and networking.

[Learn more »](#)

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## What can these boards do?

- The Beagles are tiny open-hardware (you could make one yourself), open-software computers that plug into whatever you have around the house.
- Beagles mean big functionality in small packages because these little PCs can be used for all kinds of applications you've been tinkering with... and can handle many of the same tasks as your desktop PC.
- The Beagle family is happiest when helping students to learn programming, hobbyists to push the boundaries of DIY and developers move to production quickly without excess noise, expense or bulk.

## BeagleBone Black



The benchmark for open hardware Linux computers.

[Learn more »](#)

## SeeedStudio BeagleBone Green



Seeed's Grove connectors make IoT developers life simpler large family of Grove sensors and drivers.

[Learn more »](#)

## SanCloud BeagleBone Enhanced



With a Gigabyte of RAM, gigabit Ethernet, extra USB host ports and a WiFi/Bluetooth option, make this the ultimate Bone.

[Learn more »](#)

## Product Comparison Table

	BeagleBoard.org BeagleBone Black	SeeedStudio BeagleBone Green	SanCloud BeagleBone Enhanced	BeagleBoard.org BeagleBone AI
Processor	AM3358	AM3358	AM3358	AM5729

	ARM Cortex-A8	ARM Cortex-A8	ARM Cortex-A8	2x ARM Cortex-A15
<b>Maximum Processor Speed</b>	1GHz	1GHz	1GHz	1.5GHz
<b>Co-processors</b>	2x200-MHz PRUs, ARM Cortex-M3, SGX PowerVR	2x200-MHz PRUs, ARM Cortex-M3, SGX PowerVR	2x200-MHz PRUs, ARM Cortex-M3, SGX PowerVR	4x200-MHz PRUs, 2x ARM Cortex-M4, 2x SGX PowerVR, 2x HD video
<b>Analog Pins</b>	7 (1.8V)	7 (1.8V)	7 (1.8V)	7 (3.3V)
<b>Digital Pins</b>	65 (3.3V)	65 (3.3V)	65 (3.3V)	72 (3.3V) (7 shared with analog)
<b>Memory</b>	512MB DDR3 (800MHz x 16), 2GB (4GB on Rev C) on-board storage using eMMC, microSD card slot	512MB DDR3 (800MHz x 16), 4GB on-board storage using eMMC, microSD card slot	1GB DDR3 (800MHz x 16), 4GB on-board storage using eMMC, microSD card slot	1GB DDR3 (2x 512Mx16, dual-channel), 16GB on-board storage using eMMC, microSD card slot
<b>USB</b>	mini-AB USB 2.0 client port, Type-A USB 2.0 host port	micro-AB USB 2.0 client port, Type-A USB 2.0 host port	mini-AB USB 2.0 client port, 2x Type-A USB 2.0 host ports, 2x pin header USB 2.0 host ports	Type-C USB 3.0 5Gbps Host/Client port, Type-A USB 2.0 host port
<b>Network</b>	10/100 Ethernet	10/100 Ethernet	Gigabit Ethernet, 2.4GHz WiFi, Bluetooth, BLE	Gigabit Ethernet, 2.4/5GHz WiFi, Bluetooth, BLE
<b>Video</b>	microHDMI, cape add-ons	cape add-ons	microHDMI, cape add-ons	microHDMI, cape add-ons
<b>Audio</b>	microHDMI, cape add-ons	cape add-ons	microHDMI, Bluetooth, cape add-ons	microHDMI, Bluetooth, cape add-ons
<b>Supported Interfaces</b>	4x UART, 12x PWM/Timers, LCD, GPMC, MMC1, 2x SPI, 2x I2C, A/D Converter, 2x CAN Bus (w/o PHY)	4x UART, 12x PWM/Timers, LCD, GPMC, MMC1, 2x SPI, 2x I2C, A/D Converter, 2x CAN Bus (w/o PHY) 2 Grove (I2C, UART)	4x UART, 12x PWM/Timers, LCD, GPMC, MMC1, 2x SPI, 2x I2C, A/D Converter, 2x CAN Bus (w/o PHY)	4x UART, 12x PWM/Timers, 2x SPI, 2x I2C, 7x A/D converter, CAN bus (w/o PHY), LCD, 3x quadrature encoder, SD/MMC
<b>On-board Sensors</b>	n/a	n/a	Barometer, Accelerometer, Gyro, Temperature	on-die temperature
<b>MSRP</b>	\$49	\$39	\$69	\$99

## Cool Projects

### [OpenROV Underwater Robot](#)

Learn how to create an open source telerobotic submarine for use in exploring underwater environments

### [Ninja Blocks](#)

Explore the internet of things by using these tiny, cloud-enabled computers to control and build apps that talk to connected devices

### [BeagleStache: OpenCV face detection](#)

Build on an OpenCV face detection sample to add a black mustache on the faces detected and upload the image to social media

### [3D vision for Beagle](#)

Deploy gesture recognition and full body tracking quickly and efficiently with the Omek Interactive Beckon™ Development Suite, a full-featured set of middleware and tools

### [Replicape 3D Printer Cape](#)

Convert your BeagleBone or BeagleBone Black into a 3D printer by creating this cape add-on board

### [Autonomous Solar Car](#)

Use Beagle to make the world greener today and for generations to come by creating a solar-energy-powered autonomous car

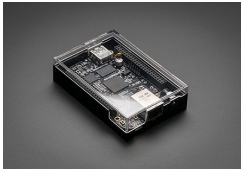
### [Haptic Belt for the Blind](#)

Help those without sight move around obstacles using Beagle + Kinect, vibrating motors and audio alerts for relaying more complex signals

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## Featured Capes & Accessories

Explore the world of feature-rich capes and other accessories for super-charged functionality. Plug in and go! [Visit the capes page](#) to see all options.



### [Adafruit BeagleBone Black Case](#)

Adafruit



Beagle Bone Black 4.3" LCD CAPE

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