



Element 14 BeagleBone Black Rev C - 4GB - Pre-installed Debian - Element 14 Version

PRODUCT ID: 1996

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[DESCRIPTION](#)

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DESCRIPTION

This is the Element 14 version of the BeagleBone Black Rev C. It's the exact same as our other BBB but if you have a preference of manufacturer, here's your chance to support our friends Element 14.

If you liked the BeagleBone Black Rev B, you will love the Rev C! The Rev C has a blistering 1GHz AM3358 processor and 512MB onboard DDR3 RAM, two 46-pin headers, micro HDMI for audio/video output, USB ports, 10/100 Ethernet and other I/O features. The Rev C is an ultra-powered embedded computer that can fit in a mint tin.

This model includes 4GB of eMMC built-in storage instead of the Rev B's 2GB. With the doubled storage and faster eMMC, the developers were able to make the Rev C's most significant change: shipping the BeagleBone Black with Debian Linux pre-loaded on the board's flash instead of Angstrom Linux. Debian Linux is a more user-friendly operating system than Angstrom and the switch to Debian is partly the result of consumer demand (especially from Adafruit users, thanks!)

Of course the BeagleBone Black Rev C is an open board so if you want to load it back up with Angstrom or other Linux-based distributions like Ubuntu or Android, you can.

The rev C comes with a mini-B cable for powering it up ASAP. No microSD card is included as the BBB has onboard flash storage - and no SD card loading is required to get started. For this revision, CircuitCo has also partnered with Element14 to try and offset some of the demand.

We'll be filling in with more information on supported accessories as we test them for compatibility. For now [we suggest picking up an enclosure, a 5V 2A power supply and a micro-HDMI cable](#). If you want to use it 'head-less', [a USB console cable is suggested](#) as the 'Black' does not have an onboard USB-to-Serial converter like the original BeagleBone.

If you need a nice display to go along with your 'Bone, [Check out our fine selection of HDMI displays, we've tested all of them with the Beagle Bone Black Rev C](#)

The new BeagleBone Black Rev C ships with the Debian Linux w/the 4.15-bone kernel.

TECHNICAL DETAILS

The BBB manual has lots of starting information and pointers for getting the most of your BeagleBone Black

As of May 12, 2014 the BBB comes with Debian Linux w/the 3.8.13-bone kernel

- Processor: Sitara AM3358BZCZ100 1GHz, 2000 MIPS
- Graphics Engine: SGX530 3D, 20M Polygons/S
- SDRAM Memory: 512MB DDR3L 606MHZ
- Onboard Flash: **4GB**, 8bit Embedded MMC
- PMIC: TPS65217C PMIC regulator and one additional LDO.
- Debug Support: Optional Onboard 20-pin CTI JTAG, Serial Header
- Power Source: miniUSB USB or DC Jack, 5VDC External Via Expansion Header
- PCB: 86.44mm x 54.54mm / 3.4" x 2.15" 6 layers
- 88.98mm x 54.54mm x 15.41mm / 3.5" x 2.15" x 0.6"
- Indicators 1-Power, 2-Ethernet, 4-User Controllable LEDs
- HiSpeed USB 2.0 Client Port: Access to USB0, Client mode via miniUSB
- HiSpeed USB 2.0 Host Port Access to USB1, Type A Socket, 500mA LS/FS/HS
- Serial Port UART0 access via 6 pin 3.3V TTL Header. Header is populated
- Ethernet 10/100, RJ45
- SD/MMC Connector microSD , 3.3V
- User Input: Reset Button, Boot Button, Power Button
- Video Out: 16b HDMI, 1280x1024 (MAX), 1024x768,1280x720,1440x900 w/EDID Support
- Audio Via HDMI Interface, Stereo
- Expansion Connectors:
 - Power 5V, 3.3V , VDD_ADC(1.8V)
 - 3.3V I/O on all signals
 - McASP0, SPI1, I2C, GPIO(65), LCD, GPMC, MMC1, MMC2, 7 AIN(1.8V MAX), 4 Timers, 3

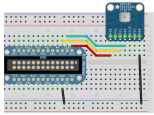
to 4 can be stacked)

- Weight 40.55g / 1.43oz

For all [technical issues, replacement and warranty assistance](#) for the Element14/Embest BeagleBone Black [contact Embest](#). You can also contact [Element14](#) depending on your region/location. For returns visit the [Element14 RMA center](#).

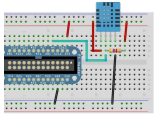


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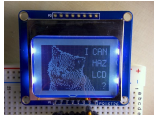
[Using the BMP085/180 with Raspberry Pi or Beaglebone Black](#)

Temperature and barometric pressure readings from Python code!



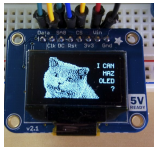
[DHT Humidity Sensing on Raspberry Pi or Beaglebone Black with GDocs Logging](#)

Humidity and Temperature Logging From Your Pi or Beaglebone Black to the Cloud!



[Nokia 5110/3310 LCD Python Library](#)

Use a simple graphic LCD with a Raspberry Pi or Beaglebone Black.



[SSD1306 OLED Displays with Raspberry Pi and BeagleBone Black](#)

Add a beautiful, bright OLED display to your Raspberry Pi or BeagleBone Black project!



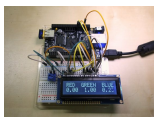
[LED Backpack Displays on Raspberry Pi and BeagleBone Black](#)

Use LED matrix, bar graph, and segment displays on your favorite small board computer.



[FONA Tethering to Raspberry Pi or BeagleBone Black](#)

Connect your Linux board to the internet through a cellular data connection with FONA!



[Character LCD with Raspberry Pi or BeagleBone Black](#)

Use a 16x2 or 20x4 character LCD with a small Linux board!



[User-space SPI TFT Python Library - ILI9341](#)

Use an ILI9341 TFT display with a Raspberry Pi or BeagleBone Black!



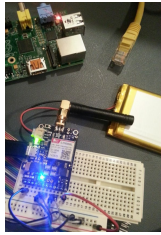
[Setting up WiFi with BeagleBone Black](#)

Use a USB WiFi adapter to get your BeagleBone Black on the Internet!

```
ping raspberrypi.local
P: raspberrypi.local [192.168.0.9]:
bytes from 192.168.0.9: icmp_seq=0
bytes from 192.168.0.9: icmp_seq=1
bytes from 192.168.0.9: icmp_seq=2
```

Bonjour (Zeroconf) Networking for Windows and Linux

Numeric IP addresses are so
'90s!



Network Interface Failover using FONA

Use FONA as an internet
connection failover device for
highly available services



What is this "Linux", anyhow?

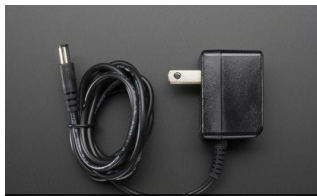
A gentle introduction to the
world's most popular free OS.



LedGames - a BeagleBone Black 64x64 LED Game

Retro gaming to the extreme,
with 64x64 resolution!

MAY WE ALSO SUGGEST...



5V 2A (2000mA) switching



HDMI 4 Pi - 7" Display



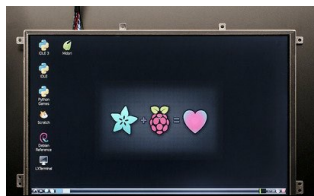
Adafruit Proto Cape Kit for



USB to TTL Serial Cable -



Beagle Bone - Skill badge,



HDMI 4 Pi - 10.1" Display



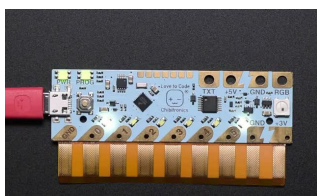
Adafruit BBB Case -



4.3" LCD Capacitive



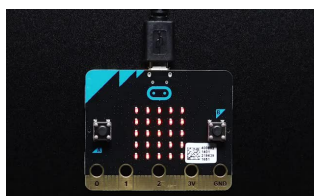
Anidees Beaglebone Black



Love To Code Chibi Chip



Anidees BeagleBoneBlack



BBC micro:bit Go Bundle

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"In considering any new subject, there is frequently a tendency, first, to overrate what we find to be already interesting or remarkable; and, secondly, by a sort of natural reaction, to undervalue the true state of the case, when we do discover that our notions have surpassed those that were really tenable" - [Ada Lovelace](#)



4.9 ★★★★★
Google
Customer Reviews