BEAGLEBONE CAPES

beagleboardtoys.com

circuitco — Printed Circuit Board Solutions

TiWi-BLE CAPE w/ CHIP ANTENNA

Part number
BB-BONE-WIFI-01

MSRP

Vol. Pricing
1-50
51-250
251+

- 802.11 b/g/n Wireless LAN
- Bluetooth 4.0 + EDR
- Power, WLAN, and Bluetooth LEDs
- Features chip antenna

NEW

TiWi-BLE CAPE w/ EXT. ANTENNA

Part number
BB-BONE-WIFI-02

MSRP

Vol. Pricing
1-50
51-250
251+

- 802.11 b/g/n Wireless LAN
- Bluetooth 4.0 + EDR
- Power, WLAN, and Bluetooth LEDs
- Features external antenna

NEW

TiWi-5E CAPE w/ CHIP ANTENNA

Part number
BB-BONE-WIFI-03

MSRP

Vol. Pricing
1-50
51-250
251+

- 802.11 a/b/g/n Wireless LAN
- Bluetooth 4.0 + EDR
- Power, WLAN, and Bluetooth LEDs
- Features chip antenna

NEW

TiWi-5E CAPE w/ EXT. ANTENNA

Part number
BB-BONE-WIFI-04

MSRP

Vol. Pricing
1-50
51-250
251+

- 802.11 a/b/g/n Wireless LAN
- Bluetooth 4.0 + EDR
- Power, WLAN, and Bluetooth LEDs
- Features external antenna

NEW
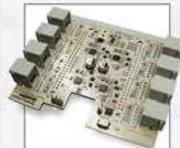
NINJA CAPE

Part number
BB-BONE-NINJA-01

MSRP

Vol. Pricing
1-50
51-250
251+

- Provides 4 mini-USB ports for sensor device connections
- Features an Atmega328 microcontroller
- Interfaces with BeagleBone via UART1
- Featured in the latest Ninja Blocks

NEW

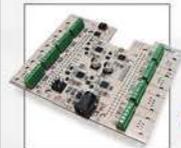## MOTOR CAPE w/ NXT CONNECTORS

Part number
BB-BONE-MOTOR-01

MSRP

Vol. Pricing
1-50
51-250
251+

- Drives up to 8 servo motors
- Features TI motor driver DRV8833
- Features NXT-styled conectors

NEW

MOTOR CAPE w/ SCREW BLOCKS

Part number
BB-BONE-MOTOR-02

MSRP

Vol. Pricing
1-50
51-250
251+

- Drives up to 8 servo brush motors
- Features TI motor driver DRV8833
- Features screw terminal blocks

NEW

BATERY CAPE

Part number
BB-BONE-BATT-01

MSRP

Vol. Pricing
1-50
51-250
251+

- Lithium batteries not included
- 4 batery cell holders
- Battery power indicator
- Powered on and off by button

RF CAPE

Part number
BB-BONE-RF-01

MSRP

Vol. Pricing
1-50
51-250
251+

- Supports proprietary RF, IEEE 802.11, IEEE 802.15.4, 6LoWPAN radio chips
- Provides RF interface expansion for BeagleBone
- Features industry standard radio EVM connector interfaces
- Supports 2 different radio devices
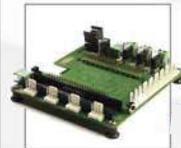
NEW

3.1MP CAMERA CAPE

Part number
BB-BONE-CAM3-01

MSRP

Vol. Pricing
1-250
251+

- Features 3.1 megapixel camera sensor
- Interfaces with camera sensor via CAM I/F
- Interfaces with BeagleBone via GPMC
- Compatible with LCD7 and DVI-D capes

BEBOPR CAPE

Part number
BB-BONE-BBPR-01

MSRP

Vol. Pricing
1-50
51-250
251+

- Controls 3D printers
- 3 analog inputs & 6 digital inputs
- 3 high-power PWM outputs
- 4 axis steppermotor interfaces

WEATHER CAPE

Part number
BB-BONE-WTHR-01

MSRP

Vol. Pricing
1-50
51-250
251+

- Featured sensors:
  - Temperature
  - Barometric pressure
  - Humidity
  - Ambient light
- Communicates with all sensors via I2C

NEW

Getting started, product specifications, hardware files and software support are available at http://beagleboardtoys.com/wiki/

RS485 CAPE

Part number
BB-BONE-SERL-04

MSRP | 1-50 / 51-250 / 251+ | Vol. Pricing

- Provides RS485 interface for BeagleBone
- Features transceiver SN75HVD12
- Features standard D-Sub 9 connector
- Users can choose from 4 UART selections

RS232 CAPE

Part number
BB-BONE-SERL-03

MSRP | 1-50 / 51-250 / 251+ | Vol. Pricing

- Provides RS232 interface for BeagleBone
- Features transceiver SN65C3221
- Features standard D-Sub 9 connector
- Users can choose from 4 UART selections

CANBUS CAPE

Part number
BB-BONE-SERL-01

MSRP | 1-50 / 51-250 / 251+ | Vol. Pricing

- Provides CAN Bus interface for BeagleBone
- Features CAN transceiver ISO1050
- Features standard D-Sub 9 connector
- Supports SocketCAN

BREAKOUT CAPE

Part number
BB-BONE-BRKT-01

MSRP | 1-50 / 51-250 / 251+ | Vol. Pricing

- Features 2 cutouts for components access
- Thick PCB against stress
- 6 standoffs for stability
- Long connector pins for easy removal
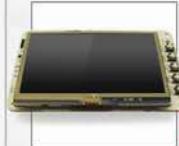
LCD7 CAPE

Part number
BB-BONE-LCD7-01

MSRP | 1-50 / 51-250 / 251+ | Vol. Pricing

- 7" TFT LCD screen
- 800x480 resolution
- 4-wire resistive touchscreen
- 5 GPIO-mapped switches

LCD4 CAPE

Part number
BB-BONE-LCD4-01

MSRP | 1-50 / 51-250 / 251+ | Vol. Pricing

- 4.3" TFT LCD screen
- 480x272 resolution
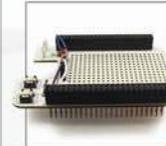- 4-wire resistive touchscreen
- 5 GPIO-mapped switches

LCD3 CAPE

Part number
BB-BONE-LCD3-01

MSRP | 1-50 / 51-250 / 251+ | Vol. Pricing

- 3.5" TFT LCD screen
- 320x240 resolution
- 4-wire resistive touchscreen
- 5 GPIO-mapped switches

BREADBOARD

Part number
BB-BONE-BBBD-01

MSRP | 1-50 / 51-250 / 251+ | Vol. Pricing

- Adhesive solderles breadboard
- Jumper wire kit
- LEDs, resistors, and switches
- Patterned prototyping area

DVI-D CAPE

Part number
BB-BONE-DVID-01

MSRP | 1-50 / 51-250 / 251+ | Vol. Pricing

- Provides 16-bit DVI-D output
- Provides 1024x768 DVI-D output
- Features 2 user LEDs
- Features HDMI connector for small size

DVI-D w/ AUDIO CAPE

Part number
BB-BONE-DVID-02

MSRP | 1-50 / 51-250 / 251+ | Vol. Pricing

- Provides 1024x768 DVI-D output
- Features TLV320AIC3106 codec
- Features HDMI connector for DVI-D
- Features standard 3.5m audio jacks

AUDIO CAPE

Part number
BB-BONE-AUDI-01

MSRP | 1-50 / 51-250 / 251+ | Vol. Pricing

- Provides stereo line-in input
- Provides stereo line-in output
- Features TLV32AIC3106 codec
- Features standard 3.5mm audio jacks

MORE CAPES AT THE BACK

Getting started, product specifications, hardware files and software support are available at http://beagleboardtoys.com/wiki/

MEMORY EXPANSION CAPE

Part number
BB-BONE-MEME-01

COMING SOON

- Provides memory expansion capability for BeagleBone
- Interfaces with external memory devices over GPMC and MMC1
- To be used with different memory modules

2GB 8-BIT eMMC MODULE

Part number
BB-BONE-eMMC1-01

COMING SOON

- Provides eMMC memory expansion for BeagleBone
- To be used with Memory Expansion Cape
- 2GB memory capacity
- 8-bit data width

4Gb 16-BIT NAND MODULE

Part number
BB-BONE-NAND1-02

COMING SOON

- Provides NAND memory expansion for BeagleBone
- To be used with Memory Expansion Cape
- 4Gb memory capacity
- 16-bit data width

HDMI CAPE

Part number
BB-BONE-HDMI-01

COMING SOON

- Provides 16-bit HDMI video output
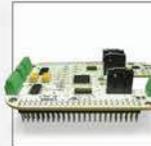- HDMI audio output

VGA CAPE

Part number
BB-BONE-VGA-01

COMING SOON

- Provides 16-bit VGA output
- Provides 1024x768 resolution
- Features standard D-Sub 15 connector

DUAL STEPPING MOTOR CAPE

Part number
BB-BONE-MSTP-01

COMING SOON

- Features MSP430 microcontroller
- Features 2 motor controllers
- Communicate with BeagleBone via SPI

PROFIBUS CAPE

Part number
BB-BONE-SERL-02

COMING SOON

- Provides ProFiBus interface for BeagleBone
- Features ProFiBus transceiver ISO1176
- Features standard D-Sub 9 connector
- Users can choose from 4 UART selections

ROV CAPE

Part number
BB-BONE-ROV-01

COMING SOON

- Runs OpenCV and Node.js for live camera streaming
- Featured in OpenROV underwater robot
- Features Atmega328 microcontroller
- Interfaces with BeagleBone via UART1

CAPES IN DEVELOPMENT

- Electrocardiography Cape
- Oscilloscope Cape
- Cortex M4 Motor Cape
- LCD7 Cap Touch Cape
- LCD4 Cap Touch Cape

Please visit http://beaglebonecapes.com/ for complete list of BeagleBone capes