Exclusively from

element14

BBONE-BLACK
element14 BeagleBone Black
BeagleBoard Compliant*
Quick Start Guide

1. Power up the board by plugging in the USB cable provided, to connector P4 on the element14 BeagleBone Black board, and the USB port on a host system

   Alternatively, the board can be powered by plugging an external 5V@1A DC power supply adapter (notincluded) into P1 on the board

USB interface

OTG(P4)

+5V Power(P1)
（5V@1A Adapter）

eMMC

USR3
USR2
USR1
USR0
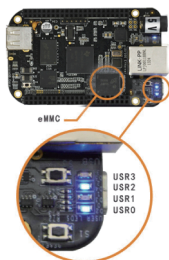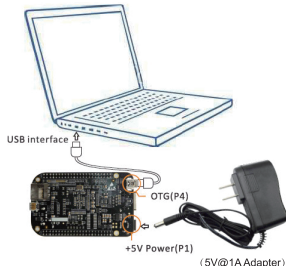
2. By default, the board boots up from the on-board 4GB eMMC which is installed with a Linux system.
3. You'll see the LED power indicator lit steadily andother LEDs blink in the pre-set pattern within 10 seconds.

- USR0 blinks like heartbeats
- USR1 is turned on when there is any access to the microSD card.
- USR2 is turned on when the CPU is processing.
- USR3 is turned on when there is any access to the eMMC.

*BeagleBoard Compliant

This product bearing the BeagleBoard Compliant Logo has been tested by BeagleBoard.org and has been determined to be BeagleBoard Compliant. "BeagleBoard Compliant" is defined as a product that (a) is identical in technical design and functionality as the specified BeagleBoard.org product with which this product is compliant, and (b) runs on the version of the software provided by BeagleBoard.org to supplier. A product shall be deemed "BeagleBoard Compliant" as of the manufacture date. The"BeagleBoard Compliant" certification does not extend to any additional peripherals that are bundled with the supplier's product
General support for this board is available from the BeagleBoard.org community. All hardware support for this product is the responsibility of element14. Return merchandise authorization support is provided by element14.
For more information please visit beaglebord.org/logo

Documentation and additional resources

All capes for BeagleBone Black are fully compatible with the element14 BeagleBone Black
All related documents including schematics, layout, BOM and user manual, and latest software examples are available
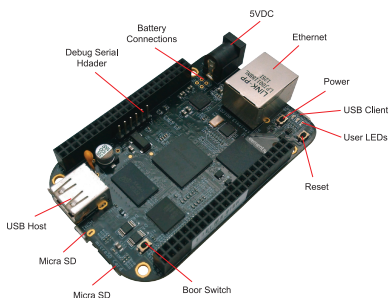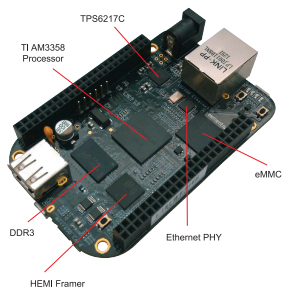at *www.element14.com/element14_BBB*

BBONE-BLACK
element14 BeagleBone Black
兼容BeagleBoard*
快速操作手册

Exclusively from
element14

TPS6217C
TI AM3358 Processor
DDR3
HEMI Framer
eMMC
Ethernet PHY

Battery Connections
Debug Serial Hdader
5VDC
Ethernet
Power
USB Client
User LEDs
Reset
USB Host
Micra SD
Micra SD
Boor Switch

1. 用产品附带的USB线缆分别连接 element14 BeagleBone Black开发板上的P4接口和计算机上的USB接口，以便为其提供电源。

   或者用一个5V/1A的外接直流电源（产品默认未提供外接电源）连接板上的P1接口也可以为开发板供电。

USB interface
OTG(P4)
+5V Power(P1)
（5V@1A Adapter）

eMMC
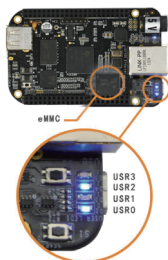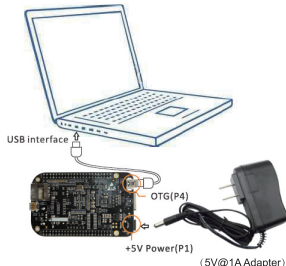
USR3
USR2
USR1
USR0

2. 默认情况下，开发板会从预装了Linux系统的板载4GB eMMC存储器启动。

3. 电源LED将会保持常亮，其他LED在10秒内以预定的模式闪烁。

- USR0在启动后以心跳灯的形式闪烁。
- USR1在读写微型SD卡时亮起。
- USR2在CPU处理数据时亮起。
- USR3在读写eMMC时亮起。

*兼容BeagleBoard

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请访问beaglebord.org/logo获取更多信息。

文档和其他资源

所有用于BeagleBone Black的插件板都能兼容element14 BeagleBone Black
BeagleBone Black相关文档包括原理图、BOM、Layout、用户手册以及最新的软件例子程序均可
在www.element14.com/element14 BBB 找到