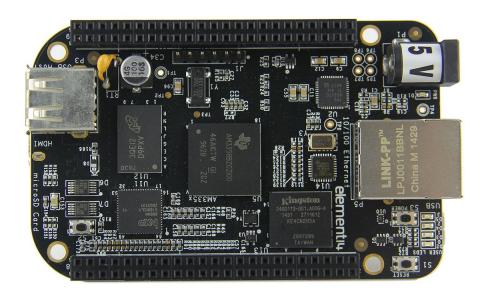# Embest BeagleBone BB Black Cortex-A8 Processor Development Board REV C Version



**Product Description:**
Embest BeagleBone GHz Cortex-A8 AM3358x YOU Black BB Development Board REV C Version

**Feature:**

|  | Feature |
|---|---|
| Processor | Sitara AM3358BZCZ100<br>GHZ, 2000MIPS |
| Graphics | 3D chipset sgx530, 20 m Polygons/S |
| SDRAM Memory | 512 MB 800 MHZ DDR3L |
| Onboard Flash | 4 GB, 8-bit Embedded MMC |
| PMIC | TP65217C PMIC regulator and one additional LDO |

| | | |
|---|---|---|
| Debugging Support | Optional Onboard 20-pin CTI JTAG, Serial Header | |
| Power Source | miniUSB USB or DC JACK | External 5VDC Via Expansion header |
| PCB | 3.4 "x 2.1" | 6 layers |
| indicators | .2-.4-1-Power Ethernet User Controllable LEDs | |
| HS USB 2.0 Client Port | Access to Client mode goes USB0, miniUSB | |
| HS USB 2.0 Host Port | Access to USB1, Type A sockets, 500mA LS/FS/HS | |
| Serial Port | Access via 6pin UART0 3.3 V TTL Header. Header is populate | |
| Ethernet | 10/100 RJ45, | |
| SD/MMC Card Connector | microSD. 3.3 V | |
| User Input | Reset Button, Boot Button, Power Button | |
| Video Out | 16B HDMI, (MAX)<br>1024 x 768, 1280 x 720, 1440 x 900, 1920 x 1080 @ 24 Hz<br>w/EDID Support | |
| Audio | Via HDMI Interface, Stereo | |
| Expansion Connectors | Power 5V, 3.3 V. VDD_ADC ( 1.8 V)<br>3.3 V I/O on all signals<br>McASP0, SPI1, I2C GPIO(69 max), LCD, GPMC MMC1, MMC 2.1 AIN) 1.8 V MAX), 4 Timers, 4Serial Ports, CAN0, EHRPWM ( 0.2), XDMA Interrupt, Power button, Expansion Board ID(Up to 4 can be stacked) | |
| Weight | 1.4 oz ( 39.68 grams) | |
| Power | Refer to Section 6.17 | |
| Document: https://www.elinux.org/Beagleboard:BeagleBoneBlack | | |

**Package included:**

1 x BeagleBone Development Board