

BeagleBone LCD3

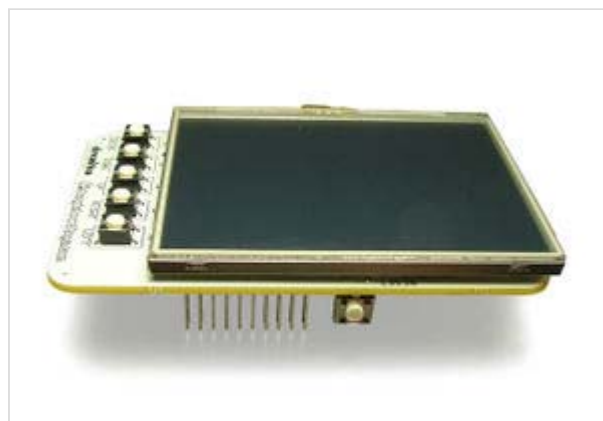
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Descriptions

The BeagleBone LCD3 Cape provides a portable LCD solution with touchscreen capability for BeagleBone boards. The 3.5" TFT LCD screen, attached to the topside of the board, can display up to a resolution of 320x240 and is a 4-wire resistive touchscreen. The board is equipped with seven buttons located at finger-friendly positions. These buttons include power, reset, and five user buttons, which are mapped to different GPIO signals. The backside of the Cape is where a BeagleBone can be mounted.



Specifications

Followings are some specifications of the BeagleBone LCD3 Cape:

Electrical Specifications

Power	3.3V via expansion header
	5V via expansion header
Display Model	Elpa Displays S035Q01

Display Type	3.5" TFT LCD
Resolution	320x240
Touchscreen	4-wire
Indicators	One Power LED
	Two User LEDs
Buttons	One power button
	One reset button
	Five user buttons
Connectors	One 46-position male headers
	One 20-position male header
	One 6-position male connector

Mechanical Specifications

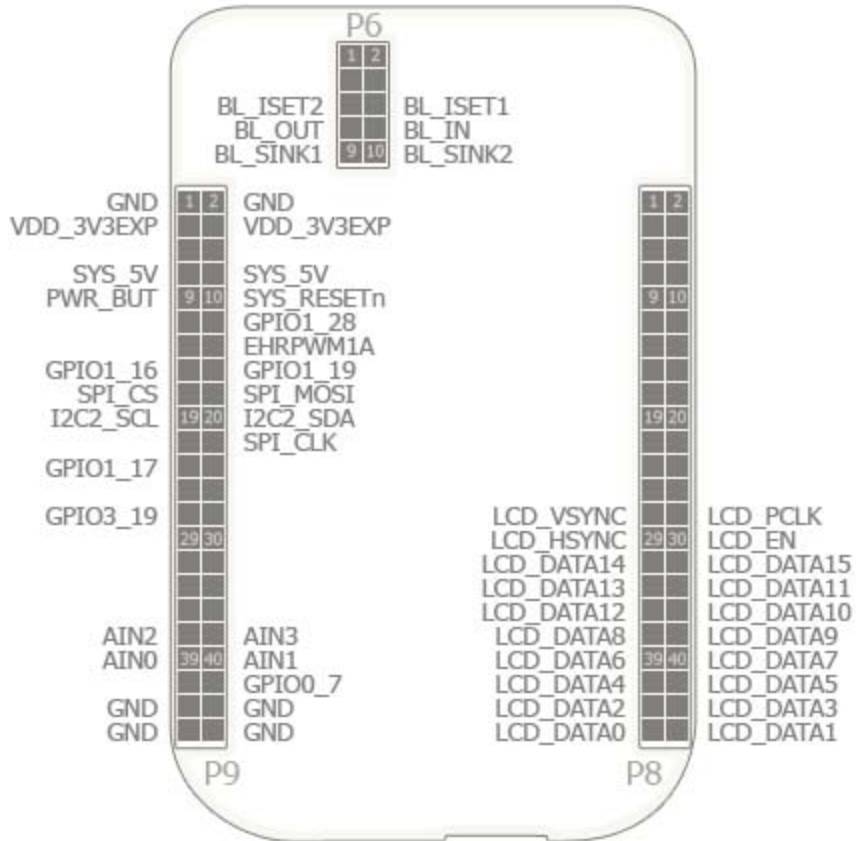
Size	4.00" x 2.50"
Layers	4
PCB Thickness	.062"
RoHS Compliant	Yes

Signal Usage

The BeagleBone LCD3 Cape uses 47 signals including:

- VDD_3V3EXP
- SYS_5V
- DGND
- PWR_BUT
- SYSRESETn
- GPIO1_28
- EHRPWM1A
- GPIO1_16
- GPIO1_19
- SPI_CS
- SPI_MOSI
- SPI_CLK
- I2C2_SCL
- I2C2_SDA
- GPIO1_17
- GPIO3_19
- AIN0

- AIN1
- AIN2
- AIN3
- GPIO0_7
- LCD_VSYNC
- LCD_HSYNC
- LCD_PCLK
- LCD_EN
- LCD_DATA[0..15]
- BL_ISET2
- BL_ISET1
- BL_OUT
- BL_IN
- BL_SINK1
- BL_SINK2



EEPROM

EEPROM Support	Yes
Board Name	BeagleBone LCD3 Cape
Version	00A0
Manufacturer	BeagleBoardToys
Part Number	BB-BONE-LCD3-01
Pins Used	54

Distributors

Distributor list will be posted soon.

Product Images



BeagleBone LCD3



Bottom side

Documentations

BeagleBone LCD3 Revision A

Documentations coming soon.

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