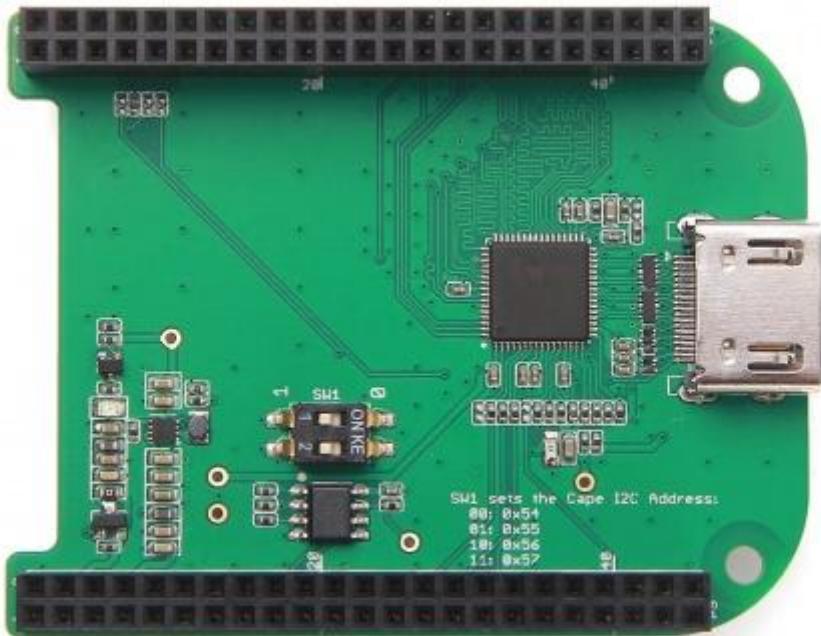


# BeagleBone Green HDMI Cape



**BeagleBone Green HDMI Cape** is a general integrated HDMI connector for expanding your BeagleBone to a rich variety of peripherals such as computer monitor, video projector, digital television, or digital audio device. This board features a standard HDMI receptacle that can be connected to a monitor with a standard HDMI-to-HDMI cable. All HD signals are supported, and the output resolution is 1280×720. It also can be used to transmit audio information. This product will make your applications based on BeagleBone board more versatile for different circumstances.

## Features

- Plug and play.
- Adapter to different input signal.
- 720P(1280×720) output resolution.

## Specification

### specifications

Input voltage	5V/3.3V
Maximum operating current	80 mA

HDMI version	Version 1.2
Maximum Output resolution	1280x720 @60Hz
Audio transmission	Available
Chip	IT66121 HDMI Framer( <a href="#">Datasheet</a> )

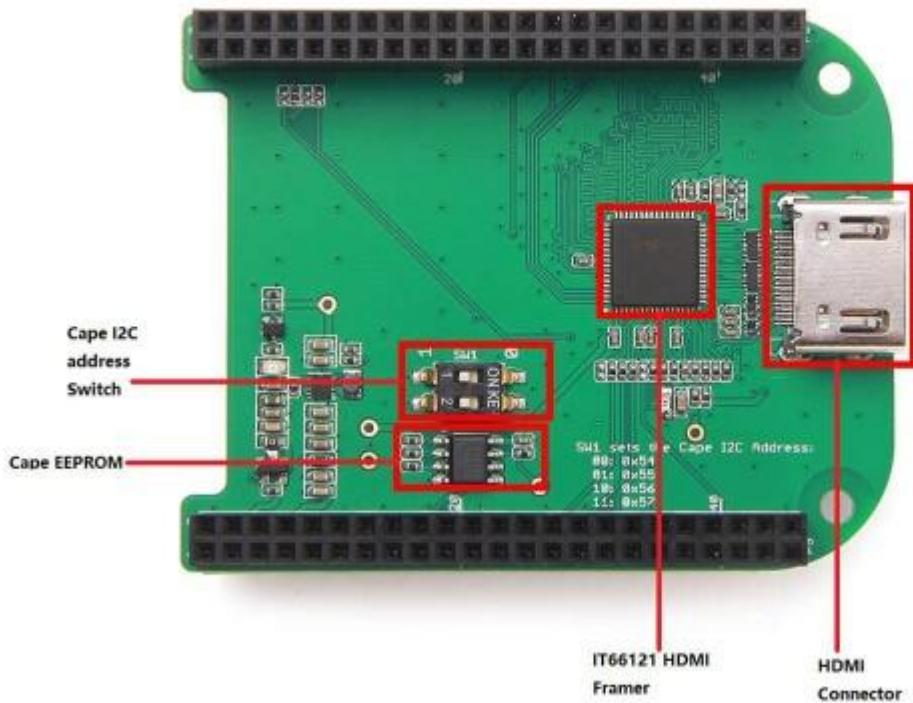
#### Platform supported

Platform	Supported status
BeagleBone	Supported

## Application ideas

You can expand your BeagleBone to more multimedia peripherals such computer monitor, video projector, digital television, or digital audio device.

# Hardware Overview



IT66121 HDMI Framer

HDMI Transmitter

Cape I2C address Switch

To switch between different cape address identifier.

Cape EEPROM

EEPROM memory for this cape.

HDMI Connector

## Parts list

Parts name	Quantity
BeagleBone Green HDMI Cape	1

# Get started

*This part will show you how to start with this product with few steps.*

## Preparations

- BeagleBone Green board(with OS [Installed first](#)) × 1.
- USB cable (type A to micro type B) × 1.
- Standard HDMI cable(type A to type A) × 1.

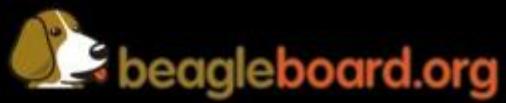
## Hardware Connection



**Note** that we use Windows 7 in this case. After connection work done, plug a computer mouse into USB interface on BeagleBone Green board.

Plug USB cable(type C end) to your PC, you will find that a BeagleBone desktop is shown on your computer monitor.

Then you can use BeagleBone like a PC or a Mac.



## Trouble shooting

1. No BeagleBone desktop operation system is shown on the computer monitor? Try one of following steps:

- Power down the monitor and restart it.
- Press RESET button on BeagleBone Green board.
- Press POWER button on BeagleBone Green board and then press it again.



2. The computer mouse does not work(not powered)?

- Press RESET button on BeagleBone Green board and wait it to launch.

3. How disassemble BeagleBone Green HDMI Cape quickly?

- Pull(with your hand) the end with HDMI receptacle out first, then pull the other end out. Repeat previous two steps again if it is necessary.

# Demo

This [video](#) shows how to use BeagleBone Green HDMI Cape to surfing Internet and play audio.

# Resources

[Schematic files](#)

**Note: Please update firmware if your current one doesn't support this BeagleBone Green HDMI Cape.**

**Download fireware:** <https://www.dropbox.com/s/v5hsb2my4y4pjrl/hdmi-cape-test-2015-10-26.img?dl=0>