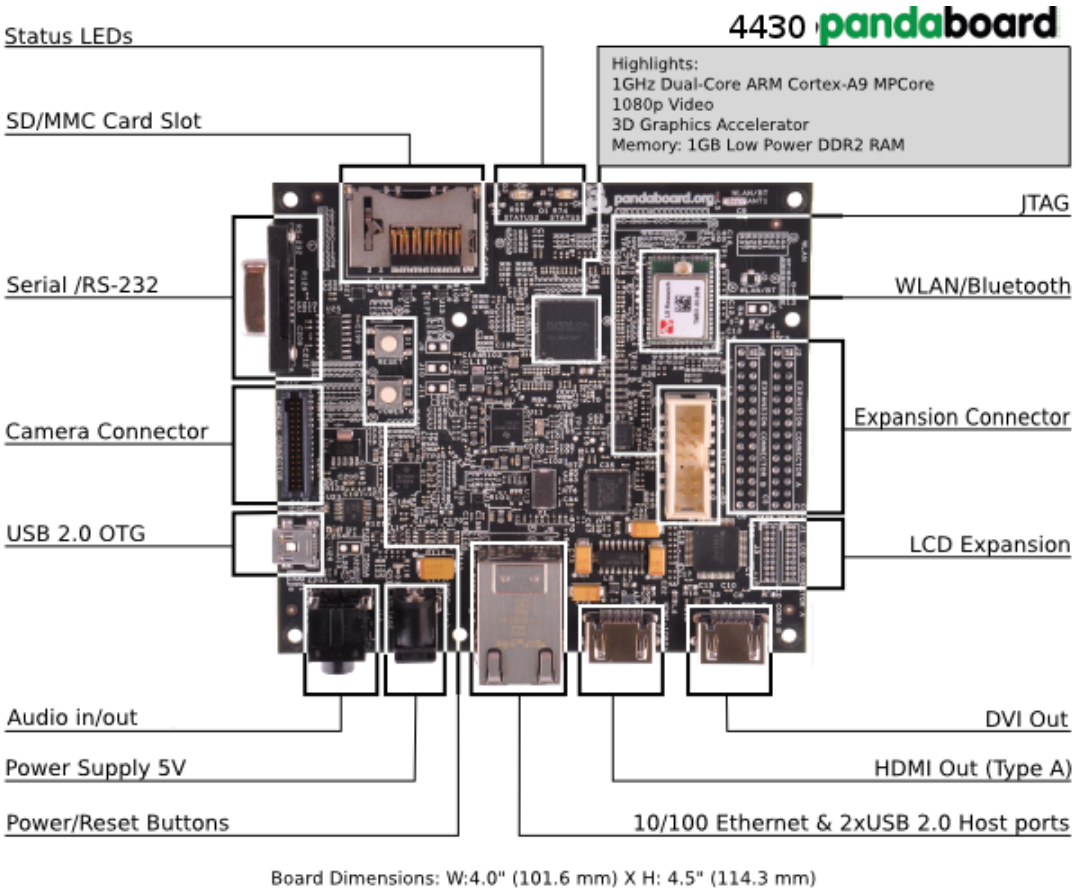
Setting up a PandaBoard

What is on a PandaBoard:



Setting Up Ubuntu on the PandaBoard:

Step 1

Download the latest Ubuntu Texas Instruments OMAP4 preinstalled image from http://cdimage.ubuntu.com/releases/12.04/release

Step 2

Mount an SD card, and make note of the path to the mount point. It might look like /dev/sdc, for example. The last letter should be something other than an “a.”

To check run the “mount” command

Step 3

Write the Ubuntu image to the SD card by entering the following command, replacing /dev/sdx with the path to your SD card and ubuntu-12.04-preinstalled-server-armhf+omap4.img.gz with the name of your file:

```
sudo sh -c 'zcat ./ubuntu-12.04-preinstalled-server-armhf+omap4.img.gz | dd bs=4M of=/dev/sdx ; sync'
```

After the zcat command finishes, you will have a clean version of Ubuntu on the SD card, but it still needs to be configured.

Step 4

Connect all the cables to PandaBoard and insert the formatted SD Card. Once everything is hooked up, just turn on the device.

Step 5

Once the PandaBoard has turned on and it has booted, it will ask you to go through configuration. After configuration is done, you have successfully installed Ubuntu on the PandaBoard.

Setting Up Android on the PandaBoard:

Step 1

Download the system.tar.bz2,boot.tar.bz2, and userdata.tar.bz2 using the following commands:

wget http://snapshots.linaro.org/android/~linaro-android/panda-jb-gcc47-tilt-stable-blob/24/target/product/pandaboard/system.tar.bz2

wget http://snapshots.linaro.org/android/~linaro-android/panda-jb-gcc47-tilt-stable-blob/24/target/product/pandaboard/boot.tar.bz2

wget http://snapshots.linaro.org/android/~linaro-android/panda-jb-gcc47-tilt-stable-blob/24/target/product/pandaboard/userdata.tar.bz2

Step 2

Now we need to install Linaro-Image-Tools

sudo add-apt-repository ppa:linaro-maintainers/tools
sudo apt-get update
sudo apt-get install linaro-image-tools

Step 3

Insert an SD card, make sure it is not mounted and flash it with the firmware (Replace /dev/sdc by the corresponding drive in your system):

```
./linaro-image-tools/linaro-android-media-create --mmc
/dev/sdc --dev panda --system system.tar.bz2 --userdata
userdata.tar.bz2 --boot boot.tar.bz2
```

Step 4

Finally install the graphics libraries:

```
wget http://people.linaro.org/~vishalbhoj/install-binaries-4.0.4.shchmod a+x install-binaries-4.0.4.sh./install-binaries-4.0.4.sh
```

Step 5

Remove the SD card from your PC, and insert it in the Pandaboard to start Android 4.1.