**AOSP android source code for Dragon Board 410c**

# Building Android Open Source Project (AOSP) for Dragonboard 410c

This page provides instructions to make a build based on AOSP for Dragonboard 410c. This should be considered work-in-progress, and the following page might be updated at any time with newer (and different) instructions. This is not a complete tutorial for AOSP, and the reader is expected to be familiar with building Android in general. For any general Android issue, please refer to Android documentation and guides.

# Build preparation

The following instructions can be used to attempt a build based on the AOSP master branch. Other branches (such as stable/release branches are not supported).

In this page, we assume that <ANDROID\_TOP> is the top level folder for your Android environment. e.g.:

mkdir <ANDROID\_TOP>

cd <ANDROID\_TOP>

Then run:

repo init -u https://android.googlesource.com/platform/manifest -b master

cd .repo

**git clone https://github.com/robherring/android\_manifest.git -b master local\_manifests**

cd ..

repo sync -j24

If you get error like below:

**error: Exited sync due to fetch errors**

use :repo sync -f -j24

It might take quite a bit of time to fetch the entire AOSP source code!

# Firmware files

Download the firmware setup package from here: https://drive.google.com/open?id=0B2zT38Egh-1TVkZoYUliOXdxaUk, and run the following command to prepare the firmware files in your Android environment:

tar -xf qcom-db410c-NOU.tgz

./extract-qcom-db410c.sh

When needed, hit yes, to agree to license.

Note that using this script is a temporary solution until the proper firmware package is published on 96boards website.

# Building

source build/envsetup.sh

lunch db410c

make -j24

# Flashing the board

While holding the S4 button, power the DragonBoard 410c board to enter fastboot mode. Before flashing the Android images, we need to flash the bootloaders and GPT. e.g. run the following commands:

mkdir ~/db410-bootlaoder

cd ~/db410-bootlaoder

wget <http://builds.96boards.org/snapshots/dragonboard410c/linaro/rescue/75/dragonboard410c_bootloader_emmc_aosp-75.zip>

(if the above link does’t work use below)

wget http://builds.96boards.org/releases/dragonboard410c/linaro/rescue/latest/dragonboard410c\_bootloader\_emmc\_android\*.zip -O dragonboard410c\_bootloader\_emmc\_android\_latest.zip

unzip the downloaded file from above command:

unzip dragonboard410c\_bootloader\_emmc\_aosp-75.zip

./flashall

We can now flash the Android images.

cd <ANDROID\_TOP>

fastboot flash boot out/target/product/db410c/boot.img

fastboot flash system out/target/product/db410c/system.img

fastboot flash cache out/target/product/db410c/cache.img

fastboot flash userdata out/target/product/db410c/userdata.img

fastboot reboot

# Booting into Android

If everything went fine, you can now reboot the board, and it should boot into Android!

# How to contribute and support

The following mailing list can be used for contributions:

https://lists.96boards.org/mailman/listinfo/dragonboard

For support, the 96boards forun can also be used

https://discuss.96boards.org/c/products/dragonboard410c

Using Sdcard:

### SD Card Update

So I fell back to the second update method, using a micro SD card. I’ve used a terminal windows in Ubuntu in the instructions below, but you could also use a Windows computer, and Win32DiskImager utility to perform the same tasks over a graphical user interface.

First download and extract the SD card image:

1. wget http://builds.96boards.org/releases/dragonboard410c/qualcomm/android/latest/dragonboard410c\_sdcard\_install\_android-\*.zip -O dragonboard410c\_sdcard\_android\_latest.zip

2. unzip dragonboard410c\_sdcard\_android\_latest.zip

[https://www.96boards.org/documentation/ConsumerEdition/DragonBoard-410c/Guides/AOSP.md.htmlhttps://www.96boards.org/documentation/ConsumerEdition/DragonBoard-410c/Guides/AOSP.md.html](https://www.96boards.org/documentation/ConsumerEdition/DragonBoard-410c/Guides/AOSP.md.html)