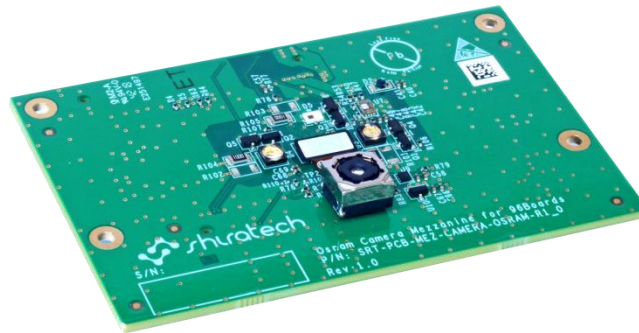


Camera Mezzanine for 96Boards

Demo SW Rev 1.0



The following document will guide you how to install and run the Camera Mezzanine demo SW using Dragonboard 410C running Android OS.

To run this demo you will need:

- Dragonbord 410C running Android
- Shiratech Camera Mezzanine for 96Boards
- micro USB cable
- Keyboard and mouse
- PC running Windows

1. Download "camera_mezzanine_demo_r10.zip" from:
<http://www.shiratech-solutions.com/products/camera-mezzanine/>
2. Unzip the file and enter \adb&fastboot folder.
3. Connect DB410 with microUSB cable to J4 (OTG port) to your PC.
(If you need to install Android driver for Windows follow the instructions in this link: <https://developer.android.com/studio/run/win-usb>).
4. Press and hold "-" S4 button and connect the DB410C to power, wait for 3 seconds and release S4.
5. In Windows PC run "cmd"
6. Run the command "fastboot devices" and verify that board connected (the command will return a device number XXXXXXXX).
7. Run the following commands to flash format EMMC memory:
 - a. fastboot flash partition ..\prepare_emmc_android\gpt_both0.bin
 - b. fastboot flash hyp ..\prepare_emmc_android\hyp.mbn
 - c. fastboot flash modem ..\prepare_emmc_android\NON-HLOS.bin
 - d. fastboot flash rpm ..\prepare_emmc_android\rpm.mbn



- e. `fastboot flash sbl1 ..\prepare_emmc_android\sbl1.mbn`
 - f. `fastboot flash tz ..\prepare_emmc_android\tz.mbn`
 - g. `fastboot flash aboot ..\prepare_emmc_android\emmc_appsboot.mbn`
 - h. `fastboot flash sbl1bak ..\prepare_emmc_android\sbl1.mbn`
 - i. `fastboot flash hypbak ..\prepare_emmc_android\hyp.mbn`
 - j. `fastboot flash rpmbak ..\prepare_emmc_android\rpm.mbn`
 - k. `fastboot flash tzbak ..\prepare_emmc_android\tz.mbn`
 - l. `fastboot flash abootbak`
`..\prepare_emmc_android\emmc_appsboot.mbn`
8. Run the following commands to erase image files
 - a. `fastboot erase boot`
 - b. `fastboot erase recovery`
 - c. `fastboot erase system`
 - d. `fastboot erase userdata`
 - e. `fastboot erase cache`
 - f. `fastboot erase devinfo`
 - g. `fastboot erase persist`
 - h. `fastboot erase sec`
 9. Run the following commands to flash new img files:
 - a. `fastboot flash boot ..\android_img\boot.img`
 - b. `fastboot flash system ..\android_img\system.img`
 - c. `fastboot flash userdata ..\android_img\userdata.img`
 - d. `fastboot flash recovery ..\android_img\recovery.img`
 - e. `fastboot flash cache ..\android_img\cache.img`
 - f. `fastboot flash persist ..\android_img\persist.img`
 10. Turn Off the Dragonboard410C.
 11. Disconnect the USB cable.
 12. Connect Shiratech Camera Mezzanine on top of the DB410C.
 13. Turn On the Dragonboard410C.
 14. Once Android boot process is complete you can start using the Camera Mezzanine (may take a while for the first time).
Look for the “Snapdragon Camera” icon In the Android App Drawer to lunch the camera app.