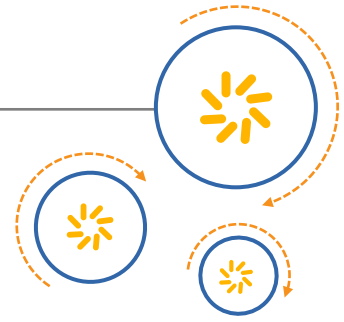




Qualcomm Technologies, Inc.



DragonBoard™ 410c based on Qualcomm® Snapdragon™ 410E processor

ADB Over Wi-Fi Application Note

September 2016

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Questions or comments: <https://www.96boards.org/DragonBoard410c/forum>

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LM80-P0436-19 Rev B

Revision history

Revision	Date	Description
B	September 2016	Update for 'E' part
A	June 8, 2015	Initial release.

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1 Enable ADB over Wi-Fi

1.1 Purpose

This application note explains how to enable ADB over Wi-Fi on DragonBoard™ 410c board.

1.2 Acronyms and abbreviations

Table 1 Acronyms and abbreviations

Acronym	Definition
ADB	Android Debug Bridge
DIP	Dual In-line Package
IP	Internet Protocol
USB	Universal Serial Bus

1.3 Steps to enable ADB over Wi-Fi

Run the following steps to enable the ADB over Wi-Fi.

1. Turn off DIP Switch 3 on the DragonBoard 410c and boot the device. You should see adb enumerated on “Device Manager” once the device boots into Android.
2. Run the following commands at the command prompt:

```
adb wait-for-device && adb root && adb wait-for-device && adb remount
&& adb wait-for-device
adb shell "echo service.adb.tcp.port=5555 >> /data/local.prop"
adb shell chmod 0644 /data/local.prop
```
3. Reboot the DragonBoard 410c with DIP Switch 3 in the ON position (mouse and keyboard mode). Verify that the USB cable to the PC is disconnected.
4. Select following options on the DragonBoard 410c:
 - settings -> Wi-Fi -> On
 - Select a network and, if necessary, enter the password
 - Setup Android
 - settings -> display -> Sleep -> 30 minutes
 - settings -> Security -> Screen Lock None
 - settings -> About phone -> Build Number x8 (press build number eight times to enable developer mode)

- settings -> Developer Options -> Stay Awake
 - settings -> Developer Options -> Verify Apps over USB -> OFF
5. Using the serial console (putty COM34, 11,5200):
- ```
ifconfig wlan0
```
- Note the <ip address> for later. (example "10.75.69.197")
  - Other options to find IP address if you do not have a Serial cable.
  - Settings -> WIFI -> Long press on the Connected Network -> Modify Network
- The IP address will display on the Modify Network screen.
6. Connect to ADB over Wi-Fi (command prompt):
- ```
ping <ip address>
adb connect <ip address>:5555
adb devices
```
7. At this point you no longer need the USB cable to load programs.
8. Root access to the DragonBoard 410c (after completing the above steps to set up everything)
- ```
adb shell su
```

## EXHIBIT 1

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