

SD 600eval based on Qualcomm[®] Snapdragon[™]
600 processor

Android Release Notes - LA.AF.1.1-02810-8064.0

Version – 1.0

May - 2016

Revision history

Revision	Date	Description
1.0	May 23, 2016	Initial Release

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1 Introduction

1.1 Purpose

This release note cover software packages from

- Code Aurora Forum:

<https://www.codeaurora.org/cgit/quic/la/platform/manifest/tag/?id=LA.AF.1.1-02810-8064.0>

- eInfochips Release package SD_600eval-android_board_support_package-LA.AF.1.1-02810-8064.0-v1.0.zip from <https://eragon.einfochips.com/>
- proprietary-Android-LA.AF.1.1-02810-8064.0-SD_600eval-v1.0.tar.gz (Linux Android Board support package) from eInfochips provided by Qualcomm™

NOTE: The above software package versions were validated for this release. You may find a different build loaded on your device, or other versions available from software package suppliers, www.codeaurora.org and/or developer.qualcomm.com. Refer to the release notes associated with those versions if using another software package.

1.2 Conventions

Function declarations, function names, type declarations, attributes, and code samples appear in a different font, for example, `#include`.

1.3 Added in this document from previous version

Shaded area indicate the newly added changes in this document

2 Software platform version

The following software platforms are supported in this release:

- Linux kernel – Ver 3.4.0
- Android Lollipop release version – 5.1.1

2.1 Android (L) platform information

The following memory platform

- 2GB LPDDR2

3 Features

3.1 Features

The following software features have been validated in this release on SD 600eval

- HDMI as primary display @ 1080p , this is the default configuration
- Audio over HDMI
- WiFi 2.4/5 GHz
- BT/BT Audio
- Gallery playback for A/V H264/MP4 content up to 1080p
- USB Mouse/Keyboard
- SD card
- SATA
- Ethernet
- RTC
- EEPROM
- Sensors (Accelerometer/Gyro meter/Magnetometer) on Application layer.
- GPS
- Wi-Fi indicator LED
- SD_600eval_Documents.tar.gz available on internal storage of board

All the below features are available on expansion connectors and tested over Mezzanine card when connected with SD 600eval board.

Note: - Any reference to connector is for Mezzanine card

- Truly DSI display 1280x720
- CSI0 Camera interface
- CSI1 Camera interface
- HSIC USB HUB
- SPI EEPROM
- SD card on SDC2 bus
- USB host from USB4 bus
- Sensors available on Mezzanine card
- Debug USB to UART J8
- UART Header J9

Software Release Notes - Android

Below features are supported for Audio Expansion connector and tested over Audio board when connected with SD 600eval board.

Note: - Any reference to connector is for Audio board

- Audio
 - J1 - ANC Headset Jack (HPH, MIC2, MIC5, MIC6)
 - J2 - Analog Mic Header (MIC1, MIC3, MIC4)
 - J3 - Speaker Jack Back (LINE2, LINE4)
 - J4 - Speaker Jack Front (LINE1, LINE3)
 - J5 - Ear Piece Jack (EAR0)
 - J6 - Speaker Jack Center (LINE5, HPH_LP)
 - U1 - Digital Mic 1 (DMIC_D0, BIAS1)
 - U2 - Digital Mic 2 (DMIC_D0, BIAS4)

4 Limitations/Known Issues

4.1 Limitations/Known issues

The following limitations/known issues in this release include:

1.	One major issue found in release when board is in standby mode for more than 5-10 Minutes without any activity then board goes into undefined/halt state and detected over Host PC in download mode. As a workaround Stay-awake functionality from Android-UI->Settings->Developer Options->Stay awake is enabled in the release by default.
2.	If MAC address of Wi-Fi is not changed then all boards have default MAC address which will conflict while having Wi-Fi of multiple boards is enabled.
3.	On re-flashing of Android images board takes 4 to 5 minutes on first boot. This is default process as on first boot Android optimize all installed apps by recompiling them.
4.	HSIC interface USB HUB J12 on Mezzanine card is not hot pluggable.
5.	SD card on Mezzanine card is not hot pluggable.

4.2 Features Not Tested in this Release

- SATA not tested with on board power

4.2.1 Unsupported Features of this Release

- Sensors calibration
- Battery plugging
- Battery charging

5 Software Release Package

This software release consists of the following items:

- **fetchsrc_and_build-SD_600eval-v1.0.sh** – Build script for Android source
- **manifest_updated.xml** – Packages used in Android build
- **patches-v1.0** – Patches to be applied on Android source
- **proprietary-Android-LA.AF.1.1-02810-8064.0-SD_600eval-v1.0.tar.gz** – SoC specific proprietary libraries and binaries provide by Qualcomm™.
- **README.txt** – Instructions for using the source code and release.
- **SD_600eval_Documents.tar.gz** – Archive of all documents
- **sensors-st-android-hal.tar.gz** – Sensor HAL source

5.1 Android build information

- Table 1 shows the Android build information for this release. A link to the Code Aurora Forum website is also provided.

Date	Tag/Build ID	Chipset	Manifest	Android version
January 19, 2016	LA.AF.1.1-02810-8064.0	APQ8064/MSM8960	LA.AF.1.1-02810-8064.0.xml	05.01.01

Table 1: Android Build Information

Code Aurora Foundation links:

<https://www.codeaurora.org/cgit/quic/la/platform/manifest/tag/?id=LA.AF.1.1-02810-8064.0>

5.2 Compilation/Build procedures

Refer README.txt inside Release BSP.