

Android Release Notes

1 Overview

Android™ 13.5.0-GA.01 patch release mainly supports the new i.MX 6SoloLite EVK board. It adds camera support (USB and CSI camera), provides some bug fixes, and includes some regular updates. The 13.5.0-GA.01 patch release is based on 13.5.0-GA.

2 Contents

Android 13.5.0-GA.01 release includes the following files:

Table 1. Android 13.5.0-GA.01 File List

File Name	Description
patch_imx-android-13.5.0-ga.01.tar.gz	This package includes all patches
image_imx-android-13.5.0-ga.01_mx6sl-evk.tar.gz	This package includes the U-Boot, 13.5.0-GA.01 kernel, and Android images
Android_User_Guide_13.5.0-GA.01.pdf	User guide document
Android_Release_Notes_13.5.0-GA.01.pdf	This document

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3 Patch List

The list of patches included in 13.5.0-GA.01 release are given in the below table.

Target git	Patches	Impact
system/vold/	0001-ENGR00232760-Some-USB-Disk-disk-NPARTS-1-part-PARTN-.patch	Fix Udisk mount issue
system/vold/	0002-ENGR00232884-vold-add-NTFS-filesystem-support.patch	Support NFS file system
system/vold/	0003-ENGR00232760-PARTN-not-continuous-for-some-USB-disk.patch	Fix Udisk mount issue
system/vold/	0004-ENGR00234680-Fix-udisk-recognition-failed-sometimes.patch	Fix Udisk mount issue
system/vold/	0005-ENGR00234680-Fix-can-t-mount-sdcard-when-boot-from-S.patch	Fix vFat partition mount issue when booting from SD card
external/tinyalsa/	0001-ENGR00234494-update-the-pcm_get_near_rate-to-pcm_get.patch	Regular update
bootable/bootloader/uboot-imx/	0001-ENGR00231781-fsl-common-Align-reversed-color-logo-to.patch	Regular update
bootable/bootloader/uboot-imx/	0002-ENGR00231891-1-gpmi-replace-the-hardcode.patch	Regular update
bootable/bootloader/uboot-imx/	0003-ENGR00231891-2-gpmi-fix-the-4k-page-size-limit.patch	Regular update
bootable/bootloader/uboot-imx/	0004-ENGR002232258-MX6Q-ARM2-add-a-NAND-boot-config-for-u.patch	Regular update
bootable/bootloader/uboot-imx/	0005-ENGR00230364-imx6sl-FEC-fix-cycle-reboot-fail-in-EVK.patch	Regular update
bootable/bootloader/uboot-imx/	0006-ENGR00232682-mx6sl-snvs-fix-long-press-ONOFF-failed-.patch	Fix cannot power off in U-Boot by pressing ON/OFF key
kernel_imx/	0001-ENGR00231615-Add-USB-Camera-support-on-MX6SL-EVK.patch	Add USB camera support
kernel_imx/	0002-ENGR00231987-Disable-GPU-reserved-memory-query-by-lo.patch	Fix system panic when browsing website sometimes
kernel_imx/	0003-ENGR00231808-Add-epdc-pmic-shut-down-feature.patch	Fix cannot enter recovery mode when doing factory reset
kernel_imx/	0004-ENGR00231307-csi-camera-add-some-ioctls.patch	Add CSI camera support
kernel_imx/	0005-ENGR00229852-csi-v4l-lower-the-priority-of-working-q.patch	Add CSI camera support
kernel_imx/	0006-ENGR00234387-mx6sl-csi-v4l2-add-V4L2_MEMORY_USERPTR-.patch	Add CSI camera support
kernel_imx/	0007-ENGR00236665-Add-CSI-camera-support.patch	Add CSI camera support
kernel_imx/	0008-ENGR00236665-Add-CSI-camera-support.patch	Add CSI camera support
hardware/imx/	0001-ENGR00215174-refine-camera-hal-to-support-stagefrigh.patch	Regular update

Table continues on the next page...

Target git	Patches	Impact
hardware/imx/	0002-ENGR00215174-fix-camera-hal-can-not-set-fps-to-15.patch	Regular update
hardware/imx/	0003-ENGR00231615-Add-USB-Camera-support-on-MX6SL-EVK.patch	Add USB camera support
hardware/imx/	0004-ENGR00231615-Add-USB-camera-support.patch	Add USB camera support
hardware/imx/	0005-ENGR00234494-fix-some-usb-mic-do-not-work-when-recor.patch	Regular update
hardware/imx/	0006-ENGR00236665-Add-CSI-camera-support.patch	Add CSI camera support
hardware/libhardware/	0001-ENGR00175629-revert-Fake-audio-HAL-cannot-meet-6q-ti.patch	Regular update
device/fsl-proprietary/	0001-fsl-proprietary.git-generate-fsl-proprietary-patch.patch	Regular update
device/fsl/	0001-ENGR00230967-Set-default-panel-as-HDMI-when-none-ein.patch	Regular update
device/fsl/	0002-ENGR00231615-Add-USB-Camera-support-on-MX6SL-EVK.patch	Add USB camera support
device/fsl/	0003-ENGR00231615-Add-USB-camera-support.patch	Add USB camera support
device/fsl/	0004-ENGR00231465-Connectivity-fix-connectivity-priority-.patch	Fix connectivity priority issue
device/fsl/	0005-ENGR00231118-Add-storage-support-on-usb-host-port.patch	Add storage support for USB host port on the i.MX 6SoloLite EVK board
device/fsl/	0006-ENGR00236665-Add-CSI-camera-support.patch	Add CSI camera support

4 Applying Patches

Android 13.5.0-GA.01 release only provide patches that are based on 13.5.0-GA code base. So, you first need to set up 13.5.0-GA code base (see Android User's Guide for 13.5.0-GA), and then apply all 13.5.0-GA.01 patches under each git.

Here is an example of applying patches to bootable/bootloader/uboot-imx.git. It is assumed that you had unzipped 13.5.0-GA.01 release package to /opt/imx-android-13.5.0-ga.01/

```
$ cd /opt/imx-android-13.5.0-ga.01/bootable/bootloader/uboot-imx.git
$ ls *.patch > series
$ cd ~/myandroid/bootable/bootloader/uboot-imx
$ git quiltimport --patches \
/opt/imx-android-13.5.0-ga.01/bootable/bootloader/uboot-imx.git
```

If an error occurs while applying a patch, use `git apply` to patch it separately.

Note that for device/fsl-proprietary.git, you need to run the following commands:

```
$ cd /opt/imx-android-13.5.0-ga.01/device/fsl-proprietary.git
$ ls *.patch > series
$ cd ~/myandroid/device/
$ rm fsl-proprietary/ -fr
```

Known Issues and Comments

```
$ mkdir fsl-proprietary
$ cd fsl-proprietary/
$ git init > /dev/null
$ touch .dummy /dev/null
$ git add .dummy > /dev/null
$ git commit -a -m "create dummy git" > /dev/null
$ git clean -f -d -q > /dev/null
$ git checkout -q -f -b maddev_ics master > /dev/null
$ git quiltimport --patches /opt/imx-android-13.5.0-ga.01/device/fsl-proprietary.git > /dev/null
```

5 Known Issues and Comments

- Due to lack of GPU, panorama mode is not supported by camera feature.
- The resolution of recording video is QVGA; the resolution of capture picture is VGA.
- The USB camera is considered as front camera; the CSI camera (that now supports OV5640) is considered as back camera. Ensure that the recently accessed camera is connected to board when launching the camera application again; otherwise, the camera application will crash, since the camera application will try to open the camera that was accessed recently. The video recording picture may flicker when using CSI camera.

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