

Release Note of Android (5.1.1-v1.2)

Summary

Release Date	Sep/17/2016 KST
Release Type	Regular release
Release Files	Self-installation Image (MD5SUM: 83f2a78b119eba4834477d327498c381)

File name : selfinstall-odroidc-eng-s805_5.1.1_master-22-v1.2.img

New updates

- Merged Android-5.1.1_r38 AOSP source.
- Change the default resolution to 720p from 1080p. 1GByte DRAM is not sufficient to manage 1080p Full-HD resolution.
- Fixed Overscan Settings bug. <http://forum.odroid.com/viewtopic.php?f=117&t=23389>
- Fixed gpiomem driver for wiringPi. <http://forum.odroid.com/viewtopic.php?f=113&t=22889#p153610>
- Fixed video recording issue on USB camera.
- Implemented "Factory data reset" function.
- Modified cache partition size from 512MB to 1GB for update/recovery. The root file system of Android 5.1.1_r38 is too big to store & uncompress on 512MB Cache partition.
- Fixed 1920×1200 resolution bug.

Known issue

- overscan and OSD bug.

Update Instruction

There is no way to update to 5.1 from 4.4. Need to freshly install 5.1.1 image on SD or eMMC.

Self Installation

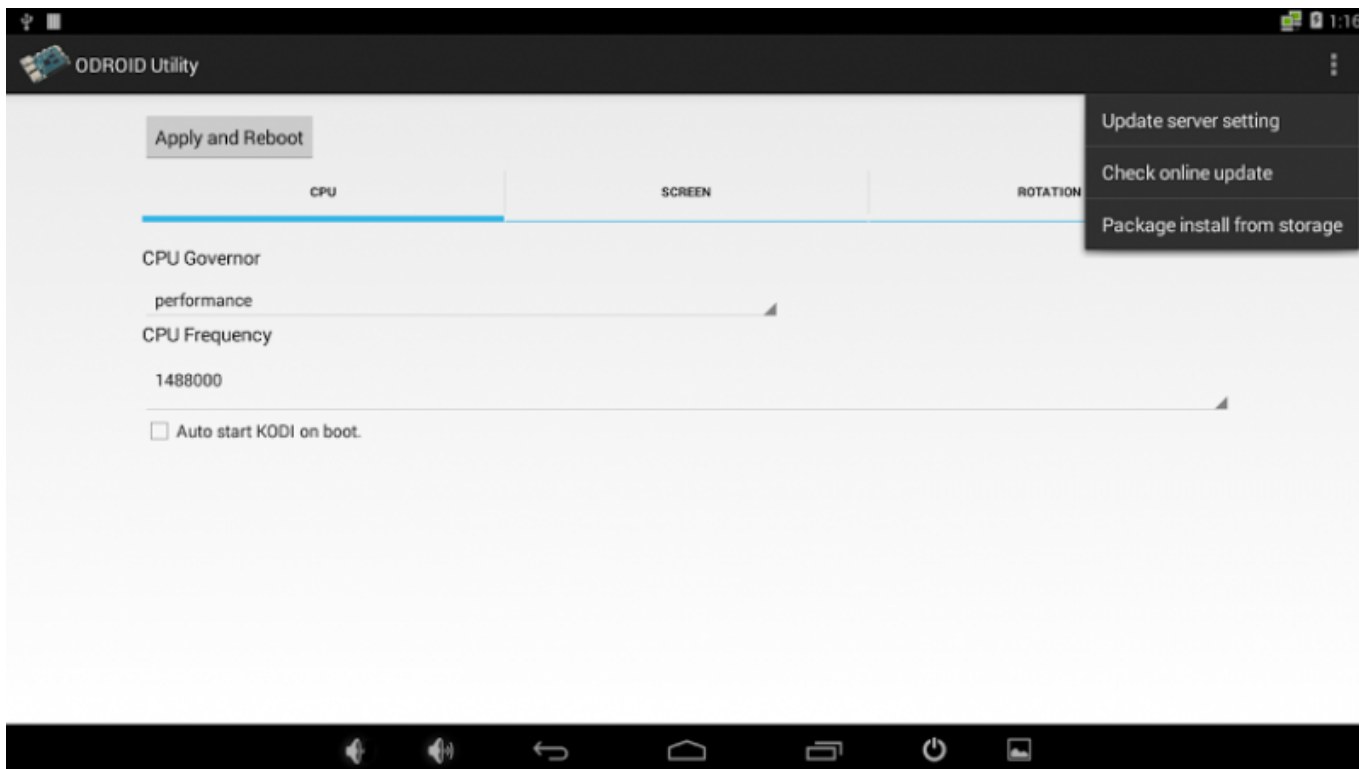
You can install the release to your [MicroSD](#) or eMMC with the tool **dd** in Linux or **Win32DiskImager** in Windows. Please refer [this](#) for more detail.

We have been reported that some of users can not watch Android logo on their TV while installing even though installation is proceeded. So please wait for 5 minutes since power on and red and blue LED is on. If blue led is started blinking

then installation is proceeding, ODRROID-C1 will reboot when finished.

Upgrade Installation

Since Android release 2.0, we provide you update package which can upgrade your device without rewrite your SD card or eMMC. This package can be downloaded and upgrade on ODRROID Utility.



- Update server setting
 - You can set your own update server and path where you upload your custom update package. Ordinary users does not need to run this and change the detail, it is already set with Hardkernel official download server for ODRROID-C1.
- Check online update
 - This will start to check latest update from Hardkernel official download server and start to download and install if new version is discovered. Your ODRROID-C1 device must be connected through the network.
- Package install from storage
 - This will help you to install the official upgrade package downloaded manually or custom update package. You can store a update file to **external storage** and select it to install.

Fastboot Update

Your can update the release by **fastboot** if you have [MicroSD](#) or eMMC already Android installed. If you have **USB-Serial kit**, you can enter to **Fastboot** mode when you execute the command **fastboot** on U-boot command line. Or if you run execute **reboot fastboot** from Android shell command line, your **ODRROID-C1** will reboot and get into **fastboot** mode immediately. You can check if your **ODRROID-C1** is attached via USB with the command **fastboot devices** in your desktop.

```
$ sudo fastboot flash bootloader u-boot.bin
$ sudo fastboot flash dtb meson8b_odroidc.dtb
$ sudo fastboot flash boot kernel
$ sudo fastboot flash recovery recovery.img
$ sudo fastboot flash logo hardkernel-720.bmp.gz
$ sudo fastboot flash system rootsystem.img
$ sudo fastboot flash userdata userdata.img
$ sudo fastboot flash cache cache.img
$ sudo fastboot reboot
```

How to checkout

You can checkout Android source tree, please refer [this page](#) for more detail. **Please note, Android source tree is uploading and would be completed in 1-2 days.**

Android

```
$ mkdir odroid-cl
$ cd odroid-cl
$ repo init -u https://github.com/hardkernel/android.git -b
s805_5.1.1_master
$ repo sync
$ repo start s805_5.1.1_master --all
```

ODROID Utility

```
packages/apps/Utility
```

Reference boot.ini

[boot.ini](#)

```
ODROIDC-UBOOT-CONFIG

# Resolution Configuration
# 'hdmimode' must be one of below to configure display resolution
within
# supported by your TV or monitor.
#   Symbol          | Resolution
# -----+-----
#   "vga"           | 640x480
#   "480p"          | 720x480
#   "576p"          | 720x576
#   "800x480p60hz" | 800x480
```

```
# "800x600p60hz" | 800x600
# "1024x600p60hz" | 1024x600
# "1024x768p60hz" | 1024x768
# "1080i50hz" | 1080I@50Hz
# "1080p24hz" | 1080P@24Hz
# "1080p50hz" | 1080P@50Hz
# "1080p" | 1080P@60Hz
# "720p" | 1280x720
# "800p" | 1280x800
# "sxa" | 1280x1024
# "1360x768p60hz" | 1360x768
# "1366x768p60hz" | 1366x768
# "1440x900p60hz" | 1440x900
# "1600x900p60hz" | 1600x900
# "1680x1050p60hz" | 1680x1050
# "1920x1200" | 1920x1200
setenv hdmimode "1080p"

# HDMI/DVI Mode Configuration
# This will enforce the singal type of display
# "hdmi" - For HDMI interface
# "dvi" - For DVI interface
setenv vout_mode "hdmi"

# HPD enable/disable option
setenv disablehpd "false"

# Overscan offset configuration
# All offsets are zero and can be tuned by manual or ODR0ID Utility
setenv overscan_top "0"
setenv overscan_left "0"
setenv overscan_bottom "0"
setenv overscan_right "0"
suspend_hdmiphy=

# UHS Card Configuration
# Uncomment the line below to __DISABLE__ UHS-1 MicroSD support
# This might break boot for some brand/models of cards.
#setenv disableuhs "disableuhs"

# Disable IR remote
setenv ir_remote "1"

setenv selinuxopt "androidboot.selinux=disabled"

# Booting
setenv bootargs "root=/dev/mmcblk0p2 rw console=ttyS0,115200n8
no_console_suspend vdacfg=${vdac_config}
logo=osd1,loaded,${fb_addr},${outputmode},full hdmimode=${hdmimode}
cvbsmode=${cvbsmode} hdmitype=${ceccconfig} vout=${vout_mode}
disablehpd=${disablehpd} ${disableuhs} androidboot.serialno=${fbt_id#}
```

```
ir_remote=${ir_remote} usbcore.autosuspend=-1 ${selinuxopt}  
suspend_hdmiphy=${suspend_hdmiphy}"
```

```
save
```

```
setenv bootcmd "movi read boot 0 0x12000000; movi read dtb 0  
0x12800000; bootm 0x12000000 - 0x12800000"
```

```
run bootcmd
```

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<http://wiki.odroid.com/> - **ODROID Wiki**

Permanent link:

http://wiki.odroid.com/odroid-c1/os_images/android/5.1.1_v1.2

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