

Release Note of Android (v3.7)

Summary

Release Date	Jun/9/2017 KST
Release Type	Regular release
Release Files	Self-installation Image (MD5SUM: 5260e0100446bc971e22b79269246c4e)
	Fastboot update (MD5SUM: 38158b7a443d88cf37dc7a5181d2603d)

Since Android 5.1 on C1 series has some issues, we release a Kitkat (Android 4.4.4) update again.

You must format SD Card or eMMC installed 4.4.4 v3.2 version and write selfinstall image because partition table was updated for MTP service.

New updates

- ODRROID-VU5/7/7+/8C LCD backlight brightness control is implemented in settings menu. You need a soldering for the PWM interface.
 - <https://forum.odroid.com/viewtopic.php?f=113&t=27227>
 - [How to control backlight of the ODRROID-VU5/7/7+/8C](#)

Update Instruction

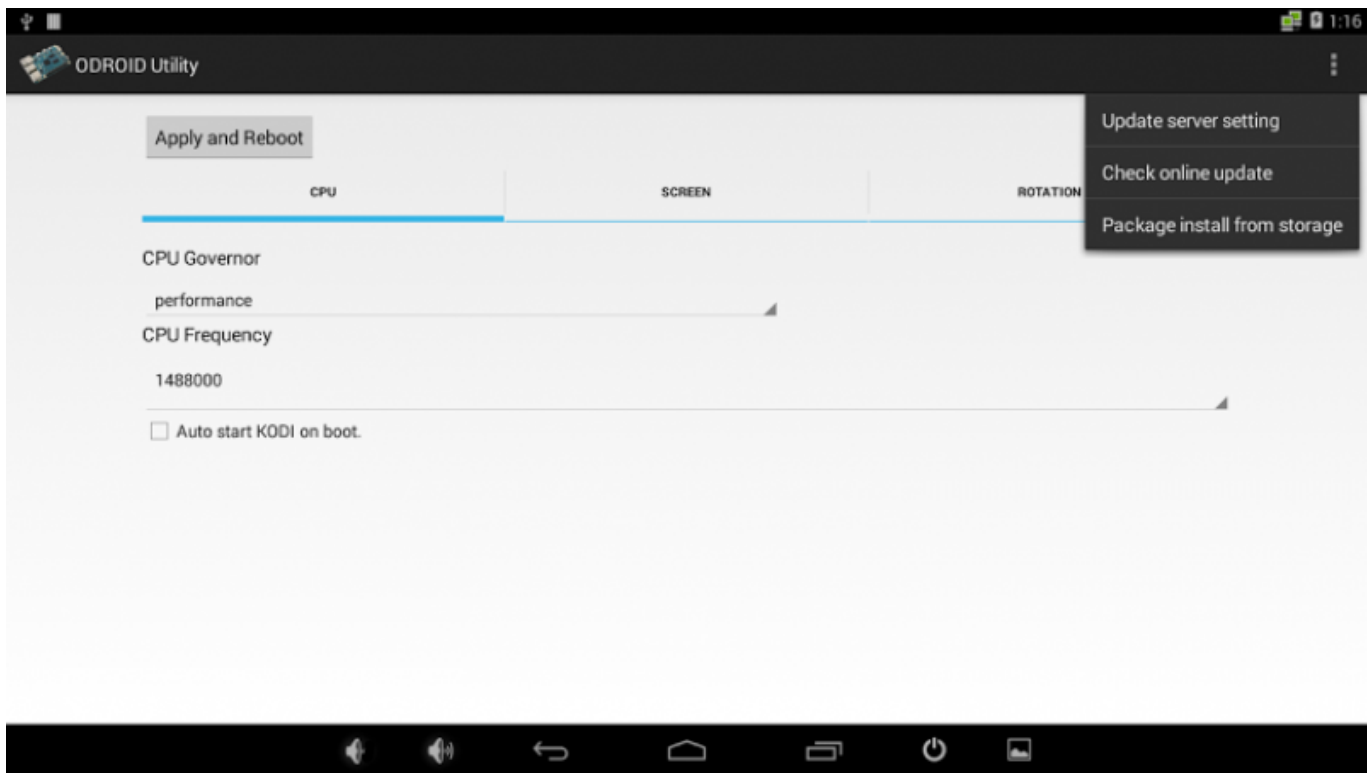
Self Installation

You can install the release to your [MicroSD](#) or eMMC with the tool **dd** in Linux or **Etcher** 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 ODROID-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 ODROID-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 **ODROID-C1** will reboot and get into **fastboot** mode immediately. You can check if your **ODROID-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
$ 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_4.4.4_master
$ repo sync
$ repo start s805_4.4.4_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
#   "480x800p60hz"  | 480x800
#   "800x600p60hz"  | 800x600
#   "1024x600p60hz" | 1024x600
#   "1024x768p60hz" | 1024x768
#   "1080i50hz"     | 1080I@50Hz
#   "1080p24hz"     | 1080P@24Hz
#   "1080p50hz"     | 1080P@50Hz
#   "1080p"         | 1080P@60Hz
#   "720p"          | 1280x720
#   "800p"          | 1280x800
#   "sxga"          | 1280x1024
```

```
# "1360x768p60hz" | 1360x768
# "1366x768p60hz" | 1366x768
# "1440x900p60hz" | 1440x900
# "1600x900p60hz" | 1600x900
# "1680x1050p60hz" | 1680x1050
# "1920x1200" | 1920x1200
setenv hdmimode "720p"

# 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 ODROID Utility
setenv top "0"
setenv left "0"
setenv bottom "0"
setenv right "0"

# 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"

# CEC Configuration
setenv cecconfig "cecf"

# Disable IR remote
setenv ir_remote "1"
suspend_hdmiphy=

# CPU Max Frequency
# setenv max_freq "1488"
# setenv max_freq "1536"
# setenv max_freq "1632"
# setenv max_freq "1728"
# setenv max_freq "1824"
setenv max_freq "1536"

# Disable Vu7
setenv disable_vu7 "false"

# invert touch screen x,y
setenv touch_invert_x "false"
setenv touch_invert_y "false"
```

```
# Enable backlight_pwm
# disable : backlight "no"
# ODR0ID-VU5/7 : backlight "yes"
# ODR0ID-VU8 : backlight "invert"
setenv backlight_pwm "no"

# 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=${cvbsmode} hdmitx=${ceccconfig} vout=${vout_mode}
disablehpd=${disablehpd} ${disableuhs} overscan_top=${top}
overscan_left=${left} overscan_bottom=${bottom} overscan_right=${right}
androidboot.serialno=${fbt_id#} ir_remote=${ir_remote}
usbcore.autosuspend=-1 suspend_hdmiphy=${suspend_hdmiphy}
max_freq=${max_freq} disable_vu7=${disable_vu7}
touch_invert_x=${touch_invert_x} touch_invert_y=${touch_invert_y}
backlight_pwm=${backlight_pwm}"
setenv bootcmd "movi read boot 0 0x12000000; movi read dtb 0
0x12800000; bootm 0x12000000 - 0x12800000"
run bootcmd
```

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