

Release Note of Ubuntu 16.04 LTS (v1.0)

Summary

Release Date	2016-07-08
Release Type	Update Release

File name : ubuntu-16.04-mate-odroid-**xu3**-20160708.img

XU3 OS image is fully compatible with XU4.

Download from below servers

- Official US West Coast: http://odroid.in/ubuntu_16.04lts
- Official US East Coast: http://east.us.odroid.in/ubuntu_16.04lts (Thanks to David Beauchamp @ ArchLinuxARM)
- Official EU Germany: http://de.eu.odroid.in/ubuntu_16.04lts
- Official Korea Mirror: <http://dn.odroid.com/5422/ODROID-XU3/Ubuntu/>

New from previous versions

- Ubuntu 16.04
- Kernel 3.10.92
- Auto-resizing the root file system partition in the first booting process
- Updated Kodi to 16.1
- You can now check CPU Throttling status running: **cat /sys/devices/10060000.tmu/throttle**
- 3.2" Touchscreen driver
- Corrected odroid_fan sysfs node permissions
- Corrected temperature sysfs node permissions
- Latest linux-wacom drivers
- Better alsa support on HDMI Audio
- New AX8817x driver
- Fixed no ethernet after reboot
- Fixed GPU voltage table issue

Known issues

- Chromium version is on hold version 48 due to issues with newer versions.
- Kodi crashing when exit.
- [EnergyMonitor](#) app was removed. Build and install it with source code if you need it.
- This image is not compatible with new Orange eMMC module.
- Tons of issues undocumented. 🙄

Access Credentials

Username	Password
root	odroid
odroid	odroid

Note: Please change the password for a production environment.

Kodi crashing when exit (workaround)

The Kodi(xbmc) crashes when exit on non-CEC monitor.

Update the system with “sudo apt update && sudo apt dist-upgrade” and reboot. Then the CEC configuration is disabled in the boot.ini file by default.

- /media/boot/boot.ini

```
# --- HDMI CEC Configuration ---  
# -----  
setenv cecenable "false" # false or true
```

How to Update system and kernel software. Don't forget dist-upgrade

```
sudo apt-get update  
sudo apt-get upgrade  
sudo apt-get dist-upgrade
```

Source Code

All source code used can be found here: https://github.com/mdrjr/5422_BSP

Linux Kernel

This guide is only for the NATIVE BUILD. Run it on the board.

For Kernel and DTB

```
$ git clone --depth 1 https://github.com/hardkernel/linux -b  
odroidxu3-3.10.y  
$ cd linux  
$ make odroidxu3_defconfig
```

```
$ make -j9
$ sudo make modules_install
$ sudo cp arch/arm/boot/zImage /media/boot
$ sudo cp arch/arm/boot/dts/exynos5422-odroidxu3.dtb /media/boot
```

For RAMDISK (Optional)

```
sudo cp .config /boot/config-`make kernelrelease`
sudo update-initramfs -c -k `make kernelrelease`
sudo mkimage -A arm -O linux -T ramdisk -C none -a 0 -e 0 -n uInitrd -d
/boot/initrd.img-`make kernelrelease` /boot/uInitrd-`make kernelrelease`
sudo cp /boot/uInitrd-`make kernelrelease` /media/boot/uInitrd
```

From:

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

Permanent link:

http://wiki.odroid.com/odroid-xu4/os_images/linux/ubuntu/20160708

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