

Release Note of Android Pie 64bit (20200422)



This is a **preview release** for Android Pie 64-bit system, some features could be unsupported or unstable enough as much as the previous Android Pie 32-bit system. For some time, Android 32-bit and 64-bit release will be maintained and released separately.

Summary

Release Date	Apr/22/2020 KST
Release Type	Preview release
Release Files	Self-installation Image (MD5SUM: cba70db449f2b57cecc75e407dc25cb6)
	Fastboot update (MD5SUM: c7951fa6937a2c9a2697fc4913f87c3a)

File name : [selfinstall-odroidn2-52-64bit-20200422.img.xz](#)

Official **Mirrors** by mdrjr

In US

<http://www.odroid.in/mirror/dn.odroid.com/S922X/ODROID-N2/Android>

In Germany

<https://de.eu.odroid.in/?directory=.%2Fmirror%2Fdn.odroid.com%2FS922X%2FODROID-N2%2FAndroid%2F>

New updates

- Fixed ODROID-VU series “display_autodetect” bug.
 - <https://forum.odroid.com/viewtopic.php?f=178&t=38482&sid=42a69e5776dd3224ccdabf8678c77d84>
- Added a few requested USB-Multitouch VID/PID.
 - <https://forum.odroid.com/viewtopic.php?f=183&t=38514&sid=42a69e5776dd3224ccdabf8678c77d84>

```
/* CROSSOVER HDMI capacitive Screen */  
#define USB_VENDOR_ID_CROSSOVER^I0x056A  
#define USB_DEVICE_ID_133TF3_DEX^I0x509D
```

Tips & Known issues

- Updated with the latest Amlogic BSP.
- Improving reboots issue reported on the forum.
- New property **dev.usbhub.reset** in order to reset USB hub in the command line.

- Add I2S support on 7-pin pin header and selectable in ODROID Settings.
 - https://wiki.odroid.com/odroid-n2/application_note/external_connector/7pin

OS installation(flashing)

You can install this OS image into your MicroSD or eMMC with [this guide](#).



A few users reported they couldn't see the Android logo on their TV while installing even though installation proceeds. If the red LED is on and the blue LED is blinking periodically, this is the sign that Android is running. So please keep your device on for 5~10 minutes as is, later than when Android installer finishes the installation it will restart the ODROID-N2.

Reference boot.ini

[boot.ini](#)

```
ODROIDN2-UBOOT-CONFIG

setenv bootlabel "Android Pie (64Bit)"

#####
# Default values
#####
setenv hdmimode "1080p60hz"
setenv voutmode "hdmi"
setenv display_autodetect "true"
setenv backlight_pwm "yes"
setenv zoom_rate "100"
setenv colorattribute "444,8bit"
setenv osd_reverse "0"
setenv video_reverse "0"
setenv suspend_hdmiphy "1"
setenv cvbmode "576cvbs"
setenv disablehpd "false"
setenv disable_vu7 "false"
setenv touch_invert_x "false"
setenv touch_invert_y "false"
setenv test_mt_vid "0000"
setenv test_mt_pid "0000"
setenv max_freq_big "1800"
setenv max_freq_little "1896"
setenv enable_wol "0"
setenv heartbeat "1"
```

```
setenv sg_tablesize "2"
setenv prevent_sleep "0"

#####
# ini load & read
#####

setenv iniloadaddr "0x4001000"
load ${devtype} ${devnum} ${iniloadaddr} env.ini
ini display ${iniloadaddr}
ini cpu ${iniloadaddr}
ini etc ${iniloadaddr}

#####
# Boot args
#####

# Init args
setenv rootopt "rootfstype=ramfs init=/init"
setenv consoleopt "console=ttyS0,115200n8 no_console_suspend
earlyprintk=aml-uart,0xff803000 quiet"
setenv ramoopsopt "ramoops.pstore_en=1 ramoops.record_size=0x8000
ramoops.console_size=0x4000"
setenv touchopt "touch_invert_x=${touch_invert_x}
touch_invert_y=${touch_invert_y}"
setenv displayopt "colorattribute=${colorattribute}
disablehpd=${disablehpd}"
setenv testmtopt "test_mt_vid=${test_mt_vid} test_mt_pid=${test_mt_pid}
backlight_pwm=${backlight_pwm}"
setenv androidopt "androidboot.selinux=permissive
androidboot.firstboot=${firstboot} jtag=disable
androidboot.hardware=odroidn2 otg_device=1 buildvariant=eng"
setenv miscopt "disable_vu7=${disable_vu7} ${touchopt}
zoom_rate=${zoom_rate} ${testmtopt} suspend_hdmiphy=${suspend_hdmiphy}
prevent_sleep=${prevent_sleep} usb-xhci.tablesize=${sg_tablesize}"

# dtbs & boot addr
setenv dtb_mem_addr 0x1000000
setenv loadaddr 0x1080000

# logo
setenv display_layer "osd0"
setenv fb_addr "0x3d800000"
setenv logo "${display_layer},loaded,${fb_addr}"

# Boot Arguments
if test "${display_autodetect}" = "true"; then hdmitx edid; fi
# TODO -> if test "${display_autodetect}" = "true"; then usb pwren;
hdmitx edid; fi
if test "${hdmimode}" = "custombuilt"; then setenv cmode
"modeline=${modeline} customwidth=${customwidth}
```



```

;| "2160p25hz"      | 3840x2160 Progressive 25Hz      |
;| "2160p24hz"      | 3840x2160 Progressive 24Hz      |
;| "smpte24hz"       | 3840x2160 Progressive 24Hz SMPTE |
;| "640x480p60hz"   | 640x480 Progressive 60Hz        |
;| "800x480p60hz"   | 800x480 Progressive 60Hz        |
;| "800x600p60hz"   | 800x600 Progressive 60Hz        |
;| "1024x600p60hz"  | 1024x600 Progressive 60Hz       |
;| "1024x768p60hz"  | 1024x768 Progressive 60Hz       |
;| "1280x800p60hz"  | 1280x800 Progressive 60Hz       |
;| "1280x1024p60hz" | 1280x1024 Progressive 60Hz      |
;| "1360x768p60hz"  | 1360x768 Progressive 60Hz       |
;| "1440x900p60hz"  | 1440x900 Progressive 60Hz       |
;| "1600x900p60hz"  | 1600x900 Progressive 60Hz       |
;| "1600x1200p60hz" | 1600x1200 Progressive 60Hz      |
;| "1680x1050p60hz" | 1680x1050 Progressive 60Hz      |
;| "1920x1200p60hz" | 1920x1200 Progressive 60Hz      |
;| "2560x1080p60hz" | 2560x1080 Progressive 60Hz      |
;+-----+-----+
hdmimode="1080p60hz"

;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;
; Custom modeline
;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;
; hdmimode="custombuilt"
; 2560x1440p60hz sample
modeline="2560,1440,241500,88800,60,2560,2608,2640,2720,1440,1442,1447,1481,
1,1,1"
customwidth="2560"
customheight="1440"

;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;
; voutmode
; hdmi or dvi
voutmode="hdmi"

;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;
; Display Auto Detection
; "false" or "true"
display_autodetect="true"

;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;
; Enable backlight_pwm
;+-----+-----+
;| Value  | target  |
;+-----+-----+
;| "no"   | disable |
;| "yes"  | ODR0ID-VU5/7 |
;| "invert" | ODR0ID-VU8 |
;+-----+-----+
backlight_pwm="yes"

```

```
;;;;;;;;;;;;;
; Display Zoom Rate
zoom_rate="100"

colorattribute="444,8bit"

osd_reverse="0"
video_reverse="0"
suspend_hdmiphy="1"

;;;;;;;;;;;;;
; CVBS encoder : 480CVBS or 576CVBS
;+-----+-----+
;| Value      | target      |
;+-----+-----+
;| "480cvbs"  | NTSC, 480i  |
;| "576cvbs"  | PAL, 576i   |
;+-----+-----+
cvbsmode="576cvbs"

;;;;;;;;;;;;;
; HPD enable/disable option
disablehpd="false"

;;;;;;;;;;;;;
; Disable VU7
disable_vu7="false"

;;;;;;;;;;;;;
; invert touch screen x,y
touch_invert_x="false"
touch_invert_y="false"

test_mt_vid="0000"
test_mt_pid="0000"

;;;;;;;;;;;;;
; Prevent screen sleep
prevent_sleep="0"

[cpu]

;;;;;;;;;;;;;
; Max cpu frequency sets
;+-----+-----+-----+
;| Value      | Frequency   | Cpu         |
;+-----+-----+-----+
;| "1992"     | 1.992GHz   | big Little  |
;| "1932"     | 1.932GHz   | big         |
;| "1920"     | 1.920GHz   | big         |
```

```

;| "1908" | 1.908GHz | big |
;| "1896" | 1.896GHz | Little |
;| "1800" | 1.800GHz | big |
;| "1704" | 1.704GHz | big Little |
;+-----+-----+-----+
max_freq_big="1800"
max_freq_little="1896"

;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;
; big, Little governor
;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;
; "interactive"
; "performance"
; "schedutil"
governor_big="performance"
governor_little="performance"

[etc]

;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;
; Wake on Lan
enable_wol="0"

;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;
; Gpio power key
;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;
; GPIOX.3 (Pin 11) of
; 2x20 pins connector
;gpiopower "479"

heartbeat="1"
sg_tablesize="2"

```

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Last update: **2020/04/23 18:55**

