

README

July 17, 2021

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1 The USB Gadget and the Pi

Does this work?

1.1 This iPad

The screenshot shows an iPad screen with a white background. At the top, there's a status bar with the time "12:26", date "Fri 16 Jul", battery level "80%", and signal strength. Below the status bar, the screen displays a guide for modifying configuration files on a Raspberry Pi running on an iPad.

Step 4. Edit config.txt

1. In the root folder of the SD card, open **config.txt** in Notepad++ (right click should be an edit option)

- Append this line to the bottom of that file:
dtoverlay=dwc2
- Save the file

Step 5. Edit cmdline.txt

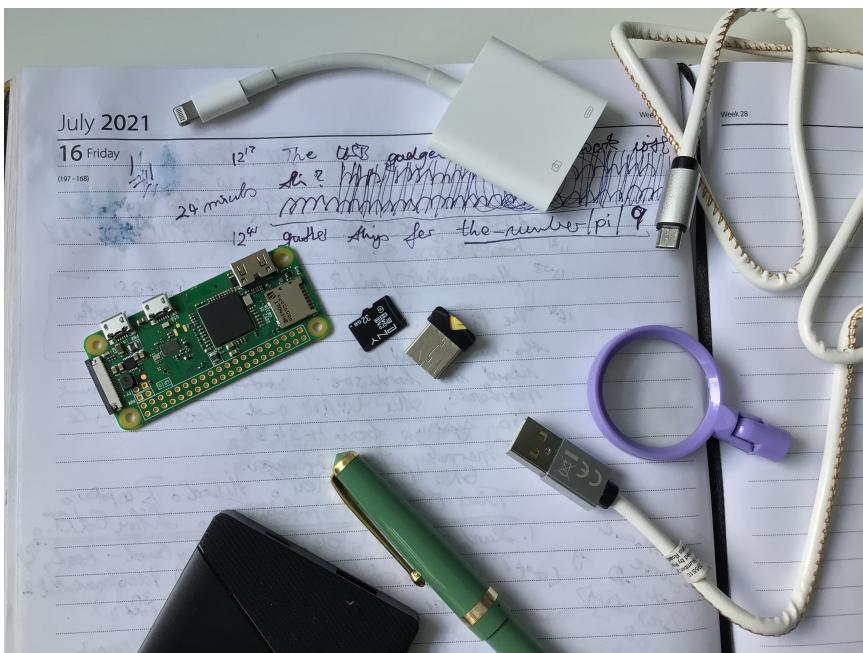
1. In the root folder of the SD card, open **cmdline.txt** in Notepad++

- After **rootwait**, append this text *leaving only one space between rootwait and the new text*:
modules-load=dwc2,g_ether
- If there was any text after the new text make sure that there is *only one space* between the old text and the new text
- Save the file

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1.2 Things for this



1.3 SD memory for this iPad to change

LIBRELEC		
	File Name	Last Modified
	cmdline 69 bytes	13/07/2021, 18:00
	bcm2708-rpi-b.dtb 24 KB	24/10/2020, 16:18
	bcm2708-rpi-b-plus.dtb 24 KB	24/10/2020, 16:18
	bcm2708-rpi-cm.dtb 24 KB	24/10/2020, 16:18
	bcm2708-rpi-zero.dtb 24 KB	24/10/2020, 16:18
	bcm2708-rpi-zero-w.dtb 24 KB	24/10/2020, 16:18
	bcm2709-rpi-2-b.dtb 25 KB	24/10/2020, 16:18
	bcm2710-rpi-2-b.dtb 25 KB	24/10/2020, 16:18
	bcm2710-rpi-3-b.dtb 27 KB	24/10/2020, 16:18
	bcm2710-rpi-3-b-plus.dtb 27 KB	24/10/2020, 16:18
	bcm2710-rpi-cm3.dtb 25 KB	24/10/2020, 16:18
	bcm2711-rpi-4-b.dtb 41 KB	24/10/2020, 16:18
	bootcode.bin 52 KB	24/10/2020, 16:18
	config 3 KB	24/10/2020, 16:18
	distroconfig 177 bytes	24/10/2020, 16:18

1.4 Here, we pause, as more needs to be



```
[ OK ] Mounted Kernel Debug File System.
[ OK ] Mounted POSIX Message Queue File System.
[ OK ] Started Create Persistent Log Directory on /storage.
[ OK ] Mounted Variable Directory.
      Starting Create kernel modules tree from overlays...
[ OK ] Started Create kernel modules tree from overlays.
      Starting Mounting swapfile...
      Starting Load Kernel Modules...
      Starting udev Coldplug all Devices...
      Starting Setup machine-id...
      Starting Create list of required static device nodes for the current kernel.
[ OK ] Started Create list of required static device nodes for the current kernel.
[ OK ] Started Setup machine-id.
      Starting Create Static Device Nodes in /dev...
      Starting Journal Service...
[FAILED] Failed to start Load Kernel Modules.
See 'systemctl status systemd-modules-load.service' for details.
      Mounting Kernel Configuration File System...
      Starting Apply Kernel Variables...
[ OK ] Mounted Kernel Configuration File System.
[ OK ] Started Create Static Device Nodes in /dev.
[ OK ] Started Apply Kernel Variables.
[ OK ] Started Mount swapfile.
[ OK ] Reached target Swap.
      Starting Creating Temporary Directory (/tmp)...
[ OK ] Started Journal Service.
      Starting Flush Journal to Persistent Storage...
[ OK ] Mounted Temporary Directory (/tmp).
[ OK ] Reached target Local File Systems.
[ OK ] Started Flush Journal to Persistent Storage.
      Starting Create Volatile Files and Directories...
[ OK ] Started Create Volatile Files and Directories.
      Starting OpenSSL configuration service...
      Starting Update hub@.bin...
      Starting Add relation entries from file...
      Starting Setup User config dir...
      Starting Rebuild Journal Catalog...
      Starting RPC Bind...
      Starting Setup User cache dir...
      Starting Setup Timzone data...
[ OK ] Started OpenSSL configuration service.
[ OK ] Started Rebuild Journal Catalog.
[ OK ] Started RPC Bind.
```

here is the picture, so far

1.4.1 config.txt

dtoverlay=dwc2

13:11 Fri 16 Jul 76%

[Done](#) config (1 of 21) [Open in Koder](#)

```
# SPDX-License-Identifier: GPL-2.0-or-later
# Copyright (C) 2009-2014 Stephan Raue (stephan@openeclec.tv)
# Copyright (C) 2016-present Team LibreELEC (https://libreelec.tv)
#####
# Bootloader configuration - config.txt
#####

# To enable the USB Gadget (20210716,g)
dtoverlay=dwc2
#####
# Memory (System/GPU configuration)
#####
# Default GPU memory split (do not change if you do not know what you are doing)
gpu_mem=128
# Configure GPU memory based on SDRAM size - overrides above setting
gpu_mem_256=112
gpu_mem_512=160
gpu_mem_1024=256
#####
# For overclocking and various other settings, see:
# https://www.raspberrypi.org/documentation/configuration/config-txt.md
#####
# Set 'force_turbo=1' to disable dynamic overclocking and enable overclocking always.
force_turbo=0
#
# Make display smaller to stop text spilling off the screen
#
# Note that the overscan settings only affect the splash screen and not Kodi.
#
# If you experience overscan/underscan issues the best solution is to adjust
# your TV settings ("full pixel", "+1 pixel" etc.). Alternatively, there is a
# calibration menu in the Kodi GUI.
# disable_overscan=1
#
# Force HDMI even if unplugged or powered off
# hdmi_force_hotplug=1
#
# Doesn't sent initial active source message.
# Avoids bringing CEC (enabled TV) out of standby and channel switch when
# rebooting.
```

1.4.2 cmdline.txt

13:12 Fri 16 Jul 76%

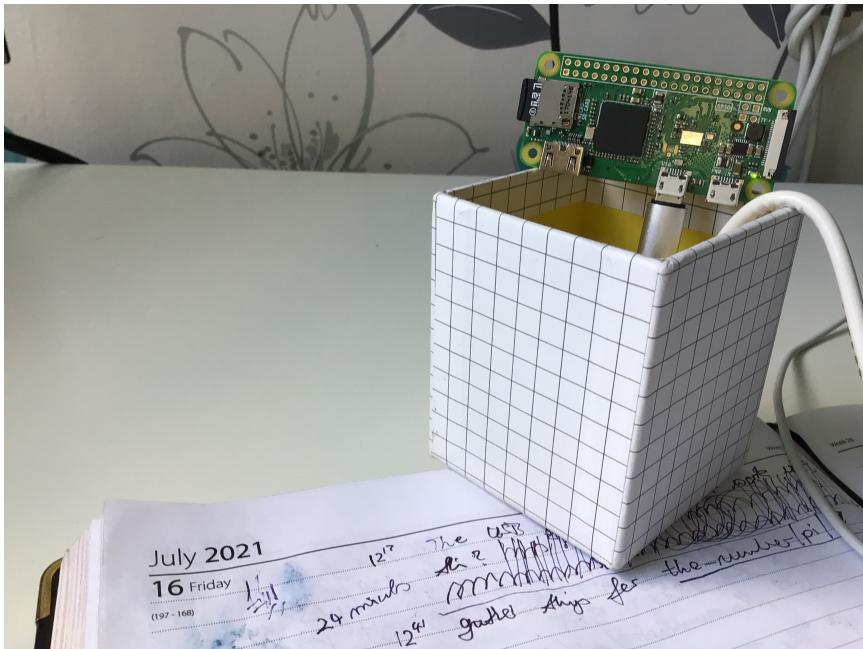
[Done](#) cmdline (2 of 21) [Open in Koder](#)

```
boot=UUID=2410-1812 disk=UUID=7f1e268e-74d3-4de4-91ee-c65be6be2ae7 modules-load=dwc2,g_ether
```

(after rootwait, exactly one space)

modules-load=dwc2,g_ether

1.5 The Pi to boot



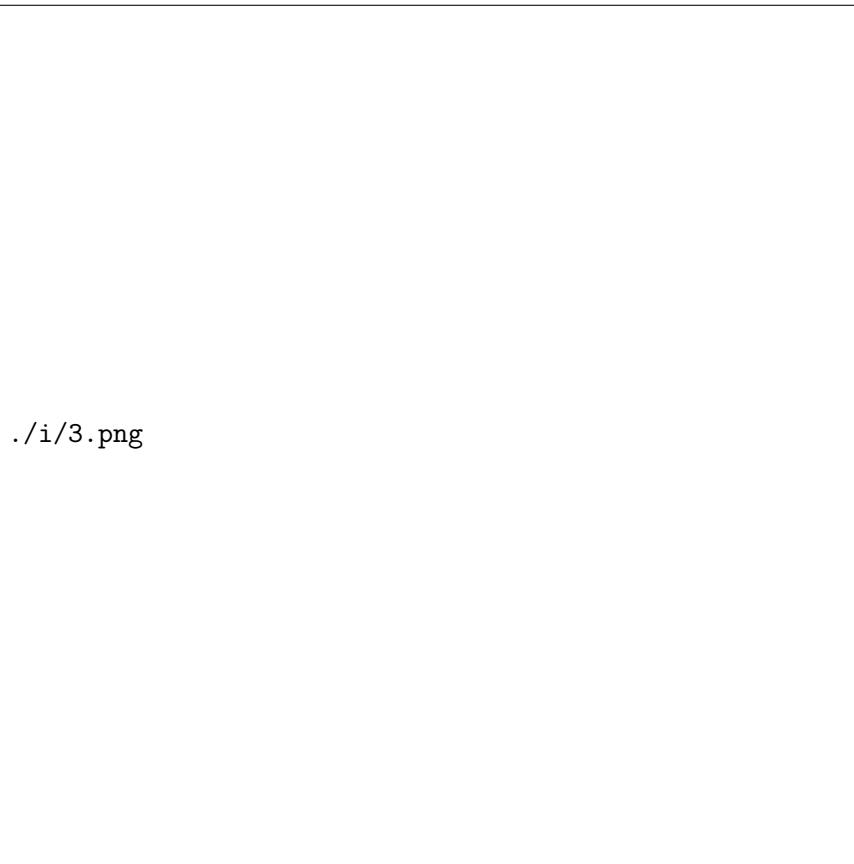
1.6 The Pi Terminus

1.6.1 The address



./i/2.png

1.6.2 The Pi on Air over USB



./i/3.png