

# Hacking on the Fairphone 2

# About Fairphone

Mission to create and improve the mobile phone industry one step at the time.

# About Fairphone

“If you can’t open it, you don’t own it”

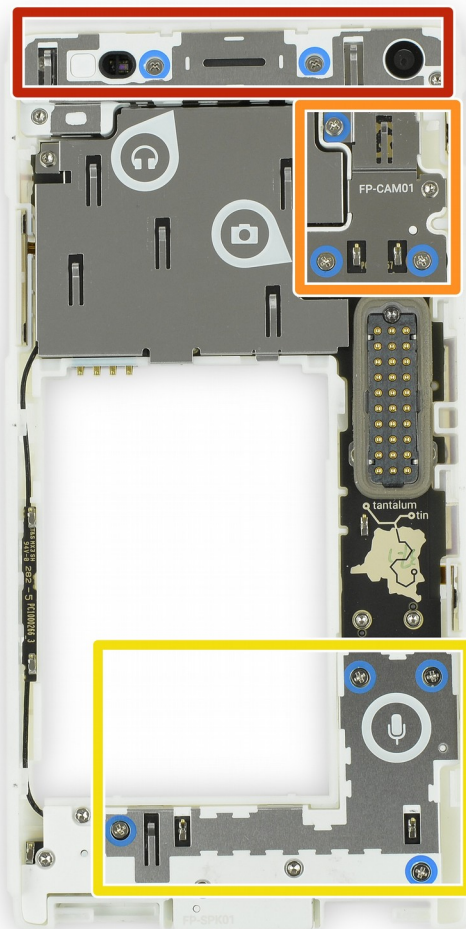
# Fairphone 2 hardware overview





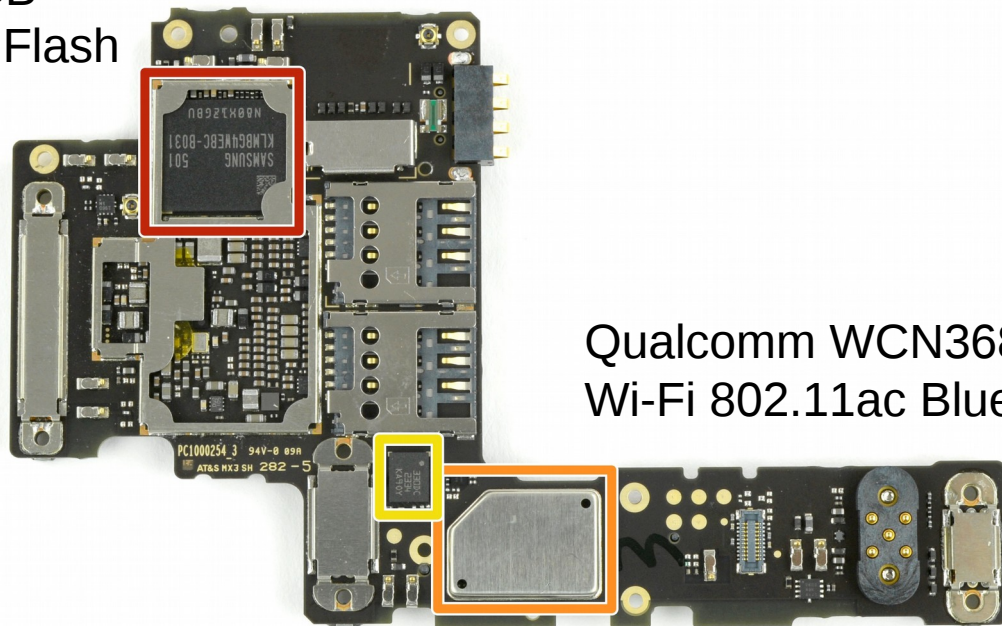








Samsung 32 GB  
eMMC NAND Flash

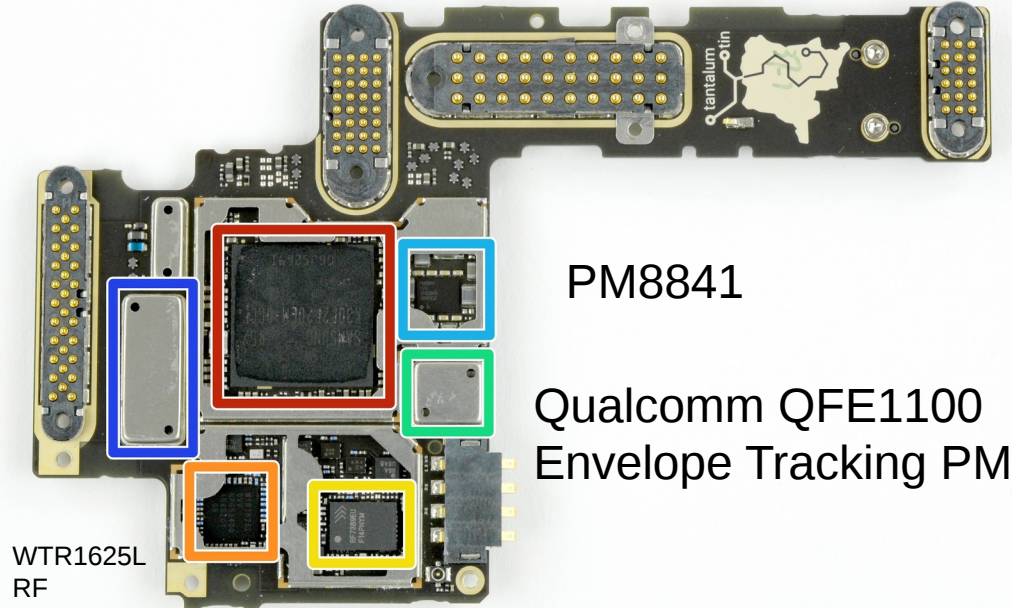


Qualcomm WCN3680B  
Wi-Fi 802.11ac Bluetooth



Source <https://www.ifixit.com/>

2 GB LPDDR3  
RAM/MSM8974

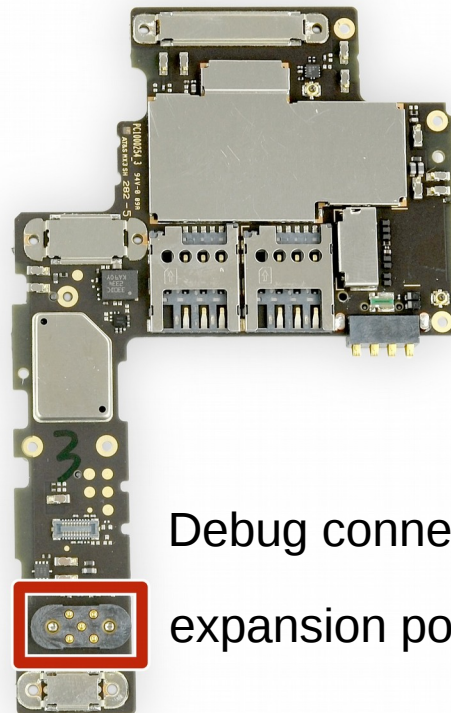
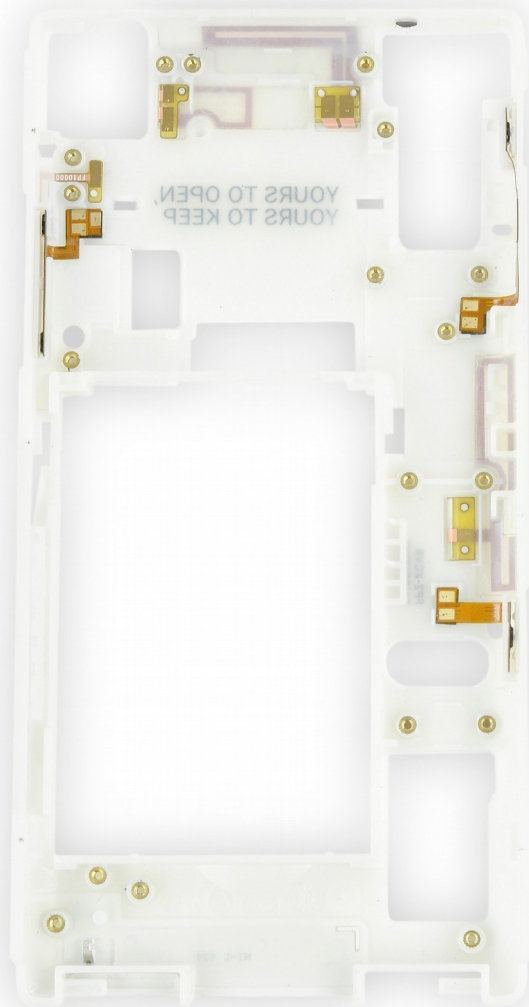


PM8841

Qualcomm QFE1100  
Envelope Tracking PM

WTR1625L  
RF

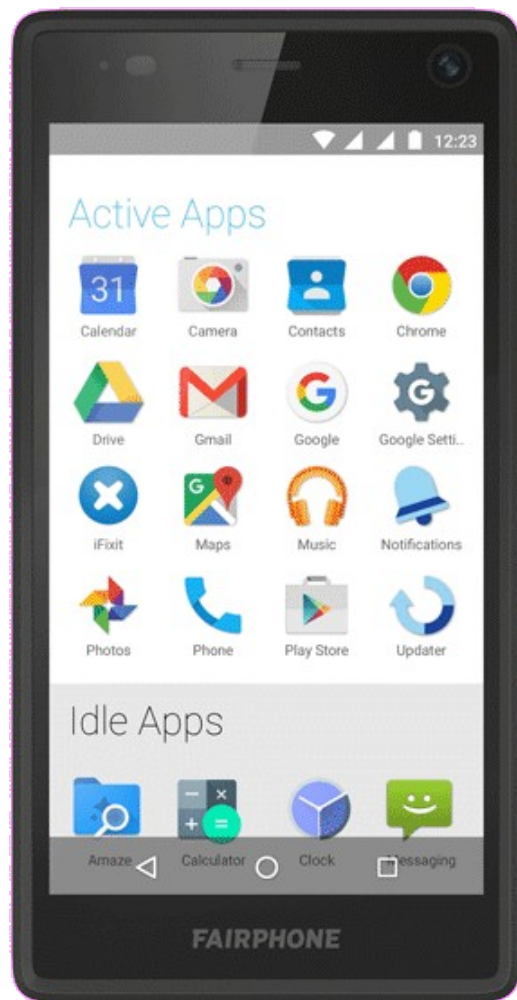
RF7389EU Multimode  
Multiband Power Amplifier



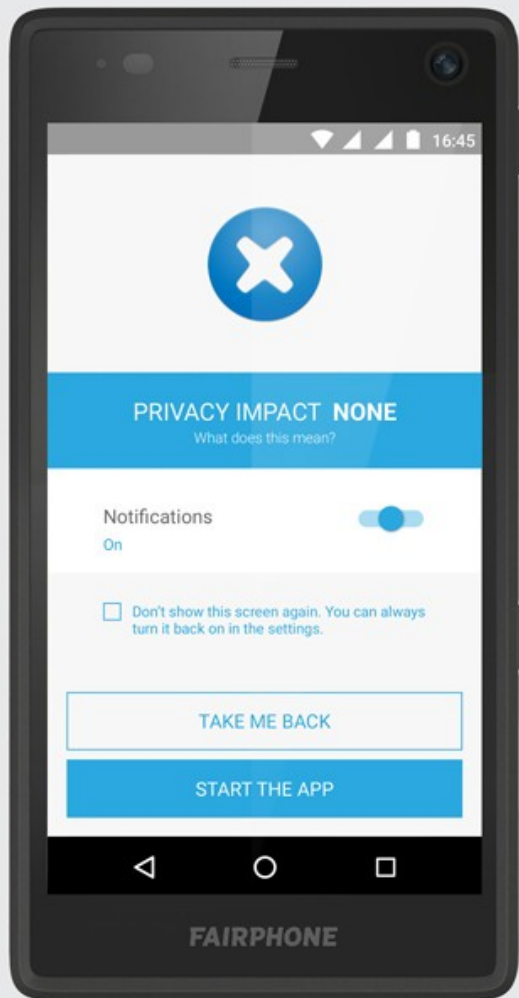
Debug connector  
expansion port







# Fairphone OS with GMS



**PRIVACY IMPACT NONE**

What does this mean?

**PRIVACY IMPACT LOW**

What does this mean?

**PRIVACY IMPACT MEDIUM**

What does this mean?

**PRIVACY IMPACT HIGH**

What does this mean?

# About Fairphone

“If you can’t open it, you don’t own it”

Open Source



# FAIRPHONE

open source

Search docs

FAIRPHONE 2

Fairphone Open Source OS

FOR DEVELOPERS

Build Instructions

Additional Downloads

<http://code.fairphone.com/>

## Build Instructions

Let's get started on creating your very own Fairphone OS build! As Fairphone OS is largely based on the Android Open Source Project, the steps to build are quite similar to building AOSP. So you might find the resources on the [AOSP website](#) helpful.



# Fairphone 2 OS Alternatives

Sailfish OS/Jolla



# Fairphone 2 OS Alternatives

B2G/Firefox OS







Welcome

English (United Kingdom)

English (United States)

Esperanto



EMERGENCY CALL

20:03  
09 JANUARY 1970  
FRIDAY

EXIT

88%

00:02  
Tuesday  
22 Dec

Emergency calls only  
(no SIM)

11:42  
Thursday, January 26

# Fairphone 2 extension/expansion port

Specs & Charging

- USB 2.0 (500 mA)

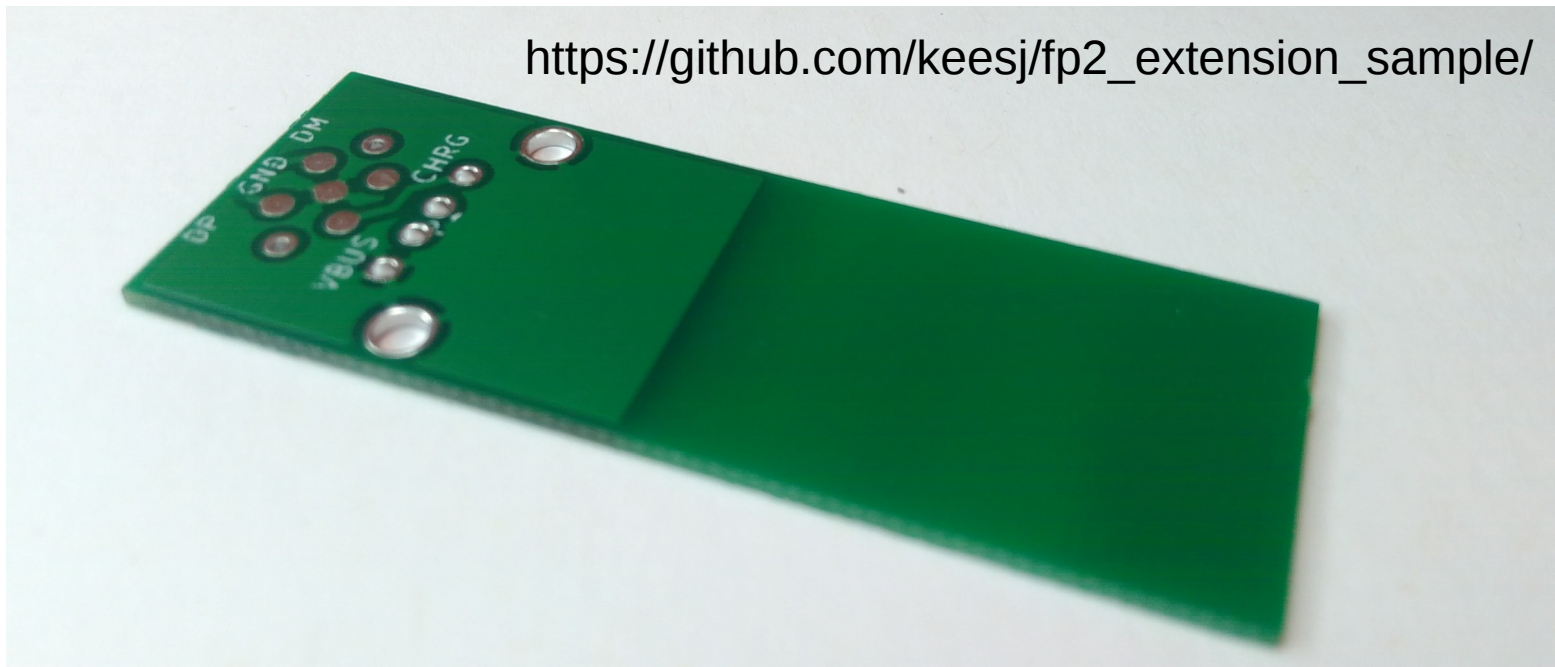
- Charging

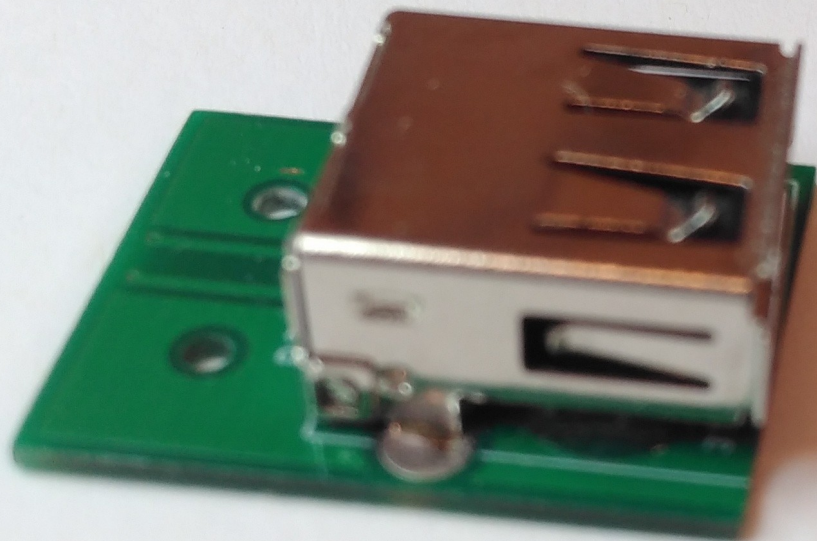


# Fairphone 2 extension port

validation “hardware”

[https://github.com/keesj/fp2\\_extension\\_sample/](https://github.com/keesj/fp2_extension_sample/)



















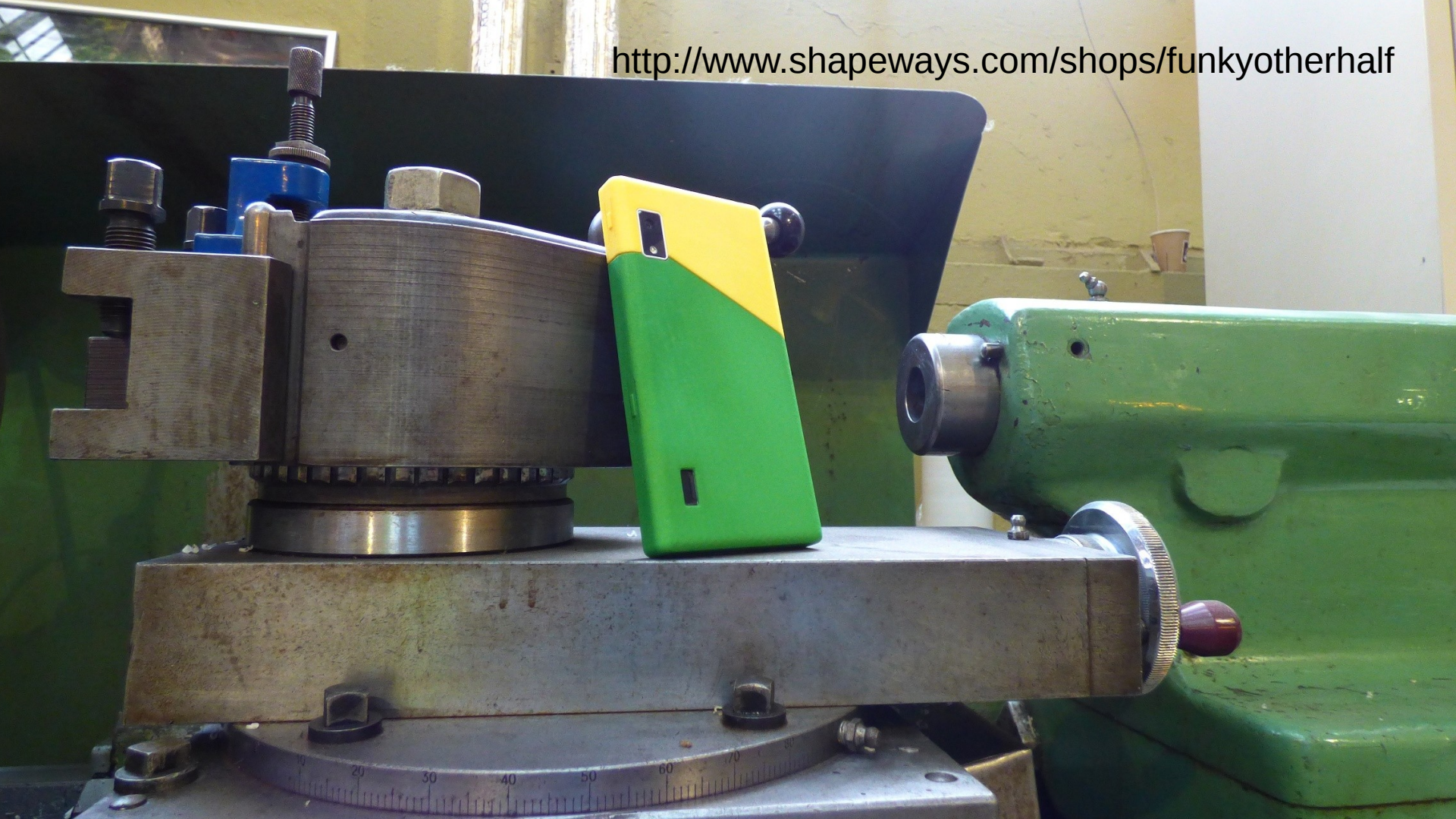
<https://forum.fairphone.com/t/led-backcover-on-the-fairphone-2/11409/6>







<http://www.shapeways.com/shops/funkyootherhalf>



# Why

Ownership  
Transparency  
Longevity

# What Next

- Offering user installable builds
- Work on alternative services
- Work on more open & secure hardware
- Combine Fair & Open Source
- Split software and hardware lifecycle
- Join US



# Contact



Freenode #fairphone  
[forum.fairphone.com](http://forum.fairphone.com)