Flipper Zero



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0x00 - **Motivation** of Research





0x00 - Motivation of Research





Hak5 wifi pineapple

0x00 - Motivation of Research



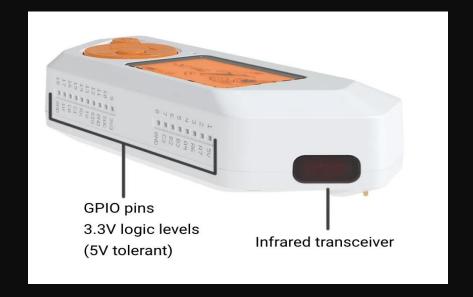




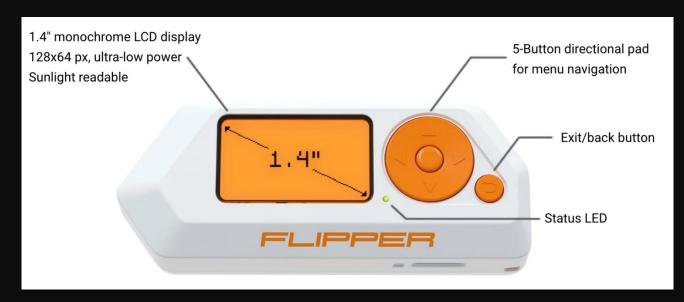
Criado por Alex Kulagin e Pavel Zhovner KickStarter 2019

Flipper is Based on ultra low power STM32 ARM MCU for daily exploration of access control systems and radio protocols, Open source and customizable.

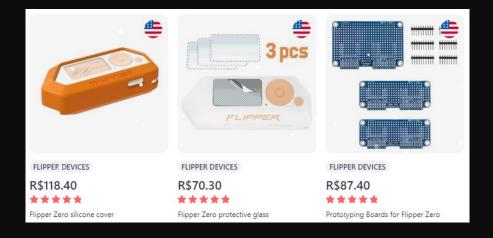


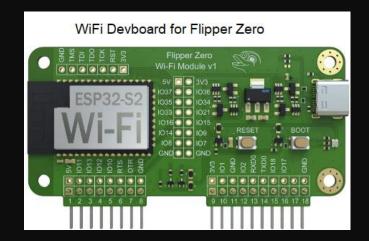














Fonte: https://www.joom.com



125 kHz RFID



Low frequency proximity cards. Reading, writing and emulating 125 kHz RFID tags.

NFC



High frequency 13,56 MHz smart cards. Reading, attacking, writing and emulating NFC cards.

Sub-GHz



Radio systems under 1GHz frequency range.

Manipulating digital wireless remotes and their radio protocols.

Infrared



Infrared signals used in TVs, audio systems, air conditioners and more. Reading and emulating infrared remotes.

Bad USB



Emulating PC keyboard to inject keystrokes via USB Rubber Ducky's scriptable payloads language.

U2F



USB universal 2nd-factor security key. Sign in to web accounts with Flipper Zero.

GPIO & modules



General Purpouse I/O pins for connecting hardware modules. Physical wired connection via UART, SPI, I2C.

iButton



Dallas touch memory keys (1-Wire). Reading, writing and emulating iButton electronic keys requiring physical contact.

Basics



How to Update Firmware, Control your device, Setup the SD card, edit Settings and recover in case of failures.

qFlipper



Desktop application for the firmware update, file management, and firmware repair.

Mobile apps



Flipper Android/iOS mobile apps provide extended control of the device: updating firmware, sharing keys and more.

Development



Software and Hardware development. System API's documentation, code examples, debugging, PCB schematics.

Fonte: https://docs.flipperzero.one



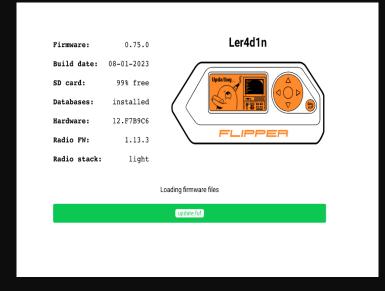




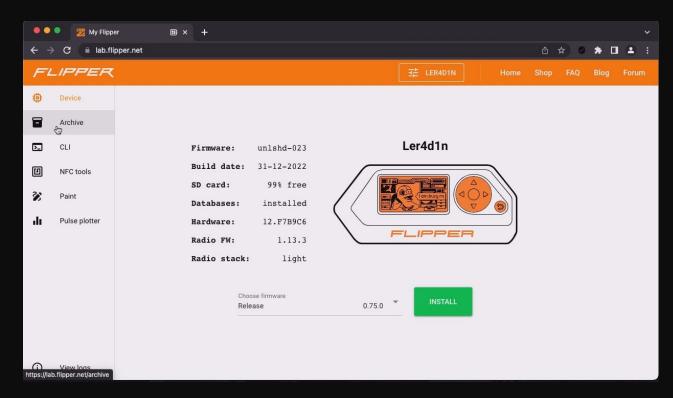












Web Updater

https://lab.flipper.net

*Melhor compatibilidade com Chrome





Levels:

•Level 1: 0 XP •Level 2: 735 XP •Level 3: 2940 XP

* Maximum 15 xp points each categories and 105 xp per day with All Categories.

•Sub-Ghz

• Enter Read Screen: 1 XP

• Save a Signal: 3 XP

Record Raw: 1 xp

Add signal manually: 2 XP

Send Saved Signal: 2 XP

Frequency Analyzer: 1 XP

•125Khz

• Enter Read Screen: 1 XP

Read Success: 3 XP

• Save a signal: 3 XP

Emulate Signal: 2 XP

Manual Add: 2 XP

•NFC

Enter Read Screen: 1 XP

Read Success: 3 XP

• Save NFC: 3 XP

• Emulate NFC: 2 XP

• Manual Add NFC: 2 XP

Infrared

Send IR Signal: 1 XP

Learn Success: 3 XP

• Save IR: 3 XP

Brute Force IR: 2 XP

•iButton

Enter Read Screen: 1 XP

Read Success: 3 XP

• Save iButton: 3 XP

• Emulate iButton: 2 XP

Manual Add: 2 XP

BadUSB

• Play Script: 3 XP

•U2F

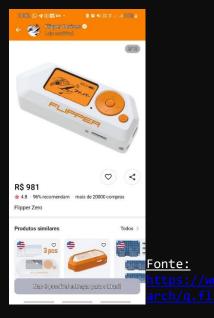
Authorize success: 3 XP





Polícia de SP prende quadrilha que clonava controles remotos de garagens para invadir casas

Fonte: https://www.youtube.com/watch?v=UYN_05h0PY0



Prezado(a)

O requerimento foi indeferido em 23/01/2023.

A área de certificação da Anatel informa que o equipamento denominado FLIPPER ZERO tem sido utilizado no país por usuários mal intencionados na facilitação de crime ou contravenção penal e, conforme previsto no item II do Art. 60 do Regulamento de Avaliação da Conformidade e de Homologação de Produtos para Telecomunicações (anexo à Resolução nº 715, de 23 de outubro de 2019), a Anatel tem indeferido todos os requerimentos de homologação para o produto em questão, no intuito de colaborar na proteção dos cidadãos brasileiros contra ações criminosas.

A sua encomenda provavelmente será liberada para os Correios com a sugestão de devolução ao remetente.

Atenciosamente,

Fiscalização Federal - Anatel/PR

Agência Nacional de Telecomunicações – Anatel

Av. Vicente Machado, 720 - CEP 80420-011 - Curitiba/PR





Fonte:

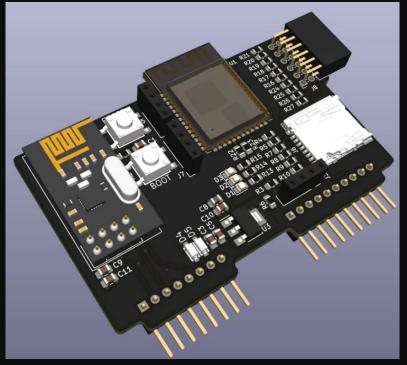
https://www.samirnews.com/2023/01/anatelesta-bloqueando-entrega-de.html?m=1



Fonte: https://medium.com/@m4rxhs_cyber/meu-flipper-foi-fiscalizado-pela-anatel-e-agora-dd53fe3f6b0f



Flipper Zero Multi Expansion Board



https://shop.tesmus.io/products/flipper-zero-multiexpansion-board

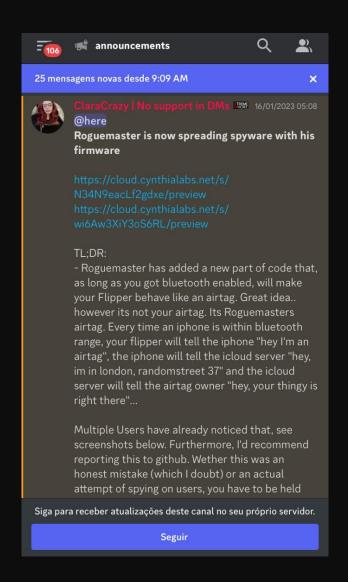
Aumento do Preço Flipper Zero no BR



Flipper Módulo For Mouse Jack

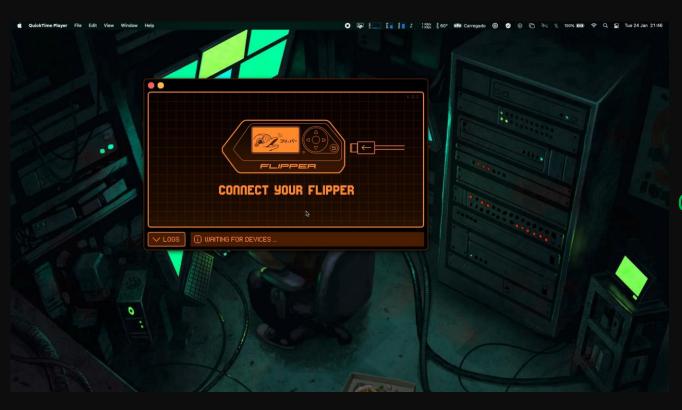






Firmware Roguemaster
(With Spyware Firmware)





Qflipper/WebUpater





<u>Sub-GHz</u> - <u>Portão</u>

<u>Sub-GHz</u> - <u>Portão</u>







Sub-GHZ - Car
(Learning Code)





<u>Sub-GHz</u> - <u>Ventilador</u> <u>Arno Vx10</u>



NFC - Mifare Classic









NFC - xNT NFC Tag [NTAG216]





NFC - Card

Emulation on real payments not working (Brazil)

```
→ 3 ■■■□□ applications/main/nfc/scenes/nfc_scene_saved_menu.c [ □
               @@ -20,8 +20,7 @@ void nfc_scene_saved_menu_on_enter(void* context) {
                   Submenu* submenu = nfc->submenu:
 20
        21
 21
                   if(nfc->dev->format == NfcDeviceSaveFormatUid ||
 23
                      nfc->dev->format == NfcDeviceSaveFormatMifareDesfire ||
                      nfc->dev->format == NfcDeviceSaveFormatBankCard) {
        23 +
                     nfc->dev->format == NfcDeviceSaveFormatMifareDesfire) {
 25
                      submenu_add_item(
                          submenu,
 27
                          "Emulate UID",
```

Changelog 0.68.1 Fonte: https://github.com/flipperdevices/flipperzero-





U2F - 2Factory Authentication
 on Gmail account





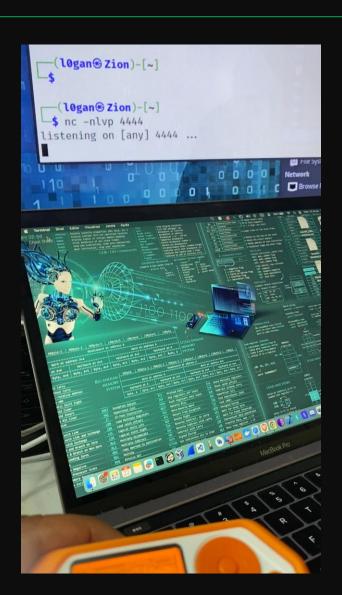


DuckScript (Payloads)









BadUSB - macOS RevShell







BadUSB - Open URL (Browser) Windows 11







BadUSB - Open URL (Browser) macOS







BadUSB - Android Send msg Whatsapp

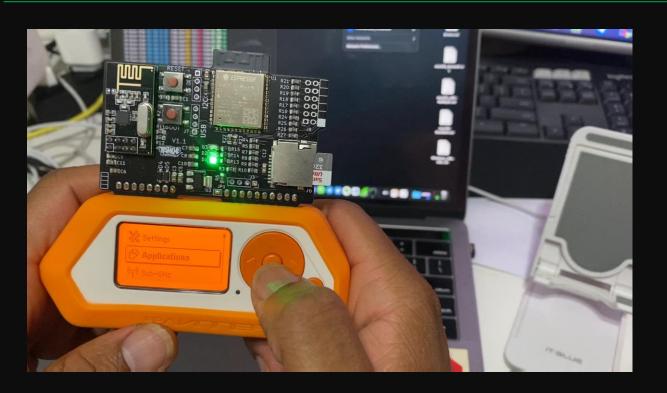






BadUSB - Linux TermBomb





GPIO - ESP32 (Marauder) - Death Wifi Network

0x04 - Conclusion



Device Compacto porém completo e expansíve

Simulações de Red Team Produto virou febre

Anatel e órgãos reguladores proibindo a homologação e uso do Flipper. Open-Source

ML com anúncios de até 8mil reais.





0x05 - Reference



Projeto

https://flipperzero.one

Comprar Flipper

https://www.joom.com/en/search/q.flipper

Firmware Unleashed

https://github.com/DarkFlippers/unleashed-firmware

Extra

https://github.com/UberGuidoZ/Flipper

https://github.com/djsime1/awesome-flipperzero

Thanks a Lot

Any Questions ?

