FLIPPER ZERO

By Marco Cellini

What is Flipper Zero?

Flipper Zero is a portable multi-tool for pentesters and geeks in a toy-like body. It can hack digital stuff, such as radio protocols, access control systems, hardware and more. It's fully open-source and customizable, so you can extend it in whatever way you like.

How it's made

1.4" monochrome LCD display
128x64 px, ultra-low power
Sunlight readable

5-Button directional pad
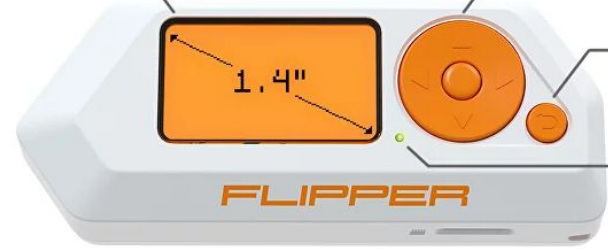for menu navigation

Exit/back button

Status LED

Flipper Zero is completely autonomous and can be controlled from a 5-Position directional pad without additional devices, such as computers or smartphones.

MicroSD Card slot

Wrist strap hole

USB Type-C
Power and battery charging
Firmware update

GPIO pins
3.3V logic levels
(5V tolerant)

Infrared transceiver

For more control, you can connect to Flipper via USB. Instead of a IPS/OLED, Flipper Zero have an old-school LCD screen, which is perfectly visible in sunlight and has an ultra-low power consumption.

His own story

On July 7 it was officially launched Flipper Zero, final product of a project born on [Kickstarter] beyond two years ago.
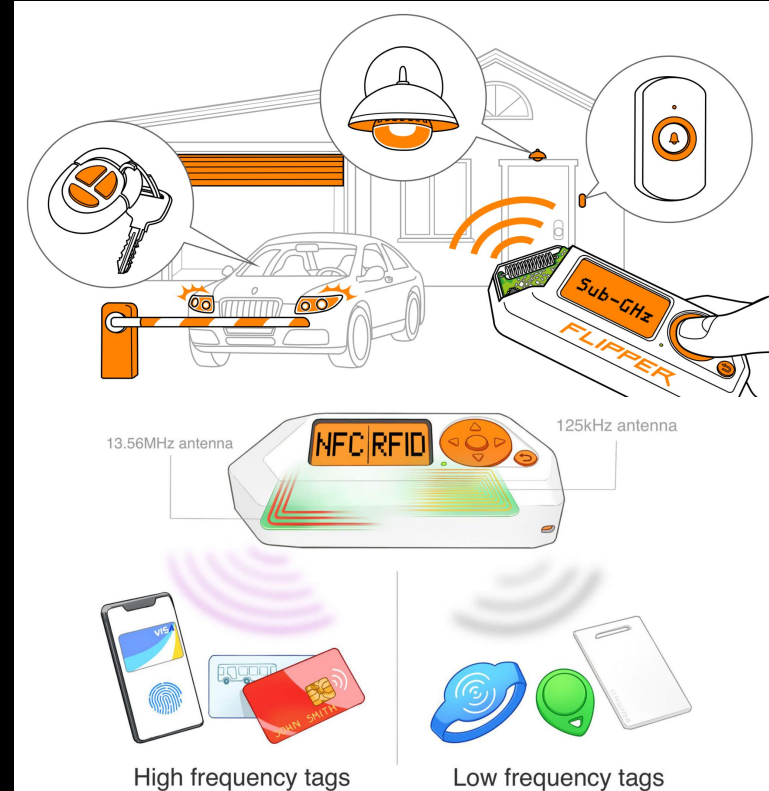
It's created by Pavel Zhovner, a Russian computer scientist and coordinator of the Hackerspace Neuron in Moscow.

What we can do with this multi-tool

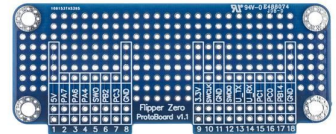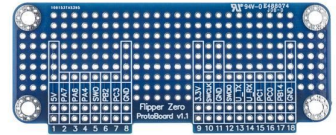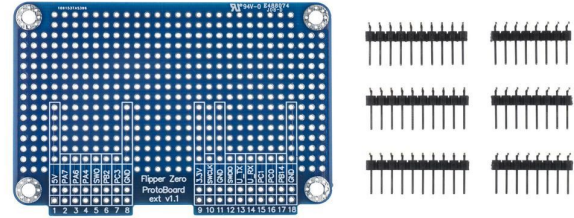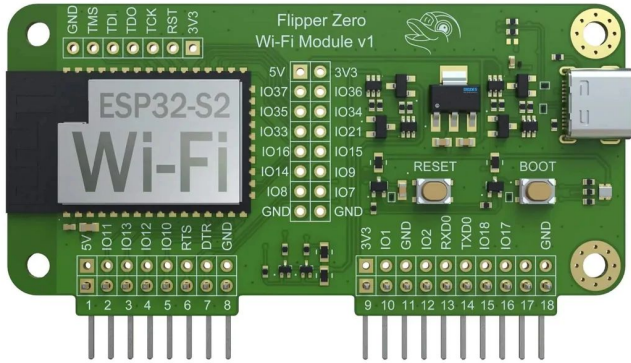This gadget is like a swiss army knife for pentester and hackers.

It has a Sub-1Ghz transceiver that can unlock devices like garage door remotes, remote keyless system, ecc...

It has a NFC and a RFID chip which it can also emulate cards and it also have an infrared transmitter with which we can use devices such as TV or projectors.

13.56MHz antenna

NFC RFID

125kHz antenna

High frequency tags

Low frequency tags

Price

All of this have a price, approximately 230 euros but we can also buy expansion cards so we can connect/attack wifi lan or we can create our expansion completely from zero.

Thanks for watching and enjoy hack