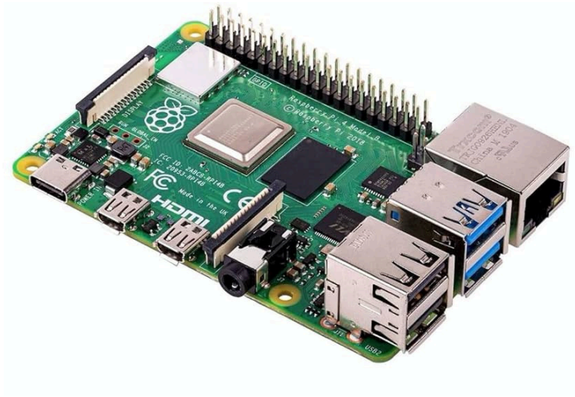
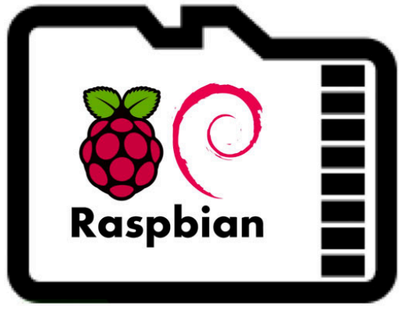
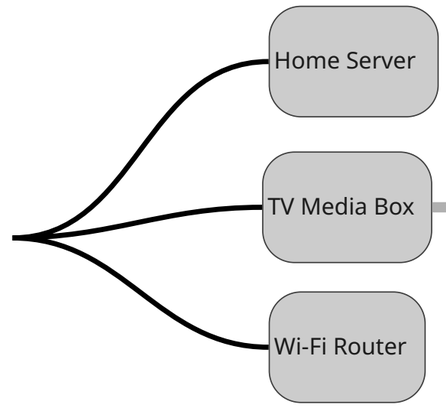
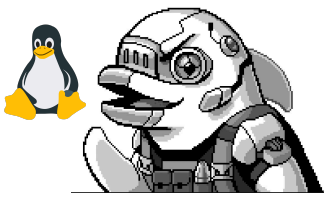
Problem of classic systems

- Can not restore configs to default
- Only one config version, no profiles/snapshots
- Easy to breake the system
- No atomic updates, update not guaranteed









Flipper OS Structure

Flipper OS
Base supplied package

Base system
- Kernel
- Root
- MCU firmware

Built-in profiles
Official system profiles

- Wi-Fi router
- Wayland Desktop
- Network sniffer
- Minimal system

Official packages
External repo with packages

Classic binary deb? packages

Complex containerized packages. Flatpak?

3rd-party Packages
Unverified system packages + flatpak packages?

User profiles
Modified user root + packages

My Cool WiFi router profile
- 20 modified txt configs
- 10 installed packages

Size: 40 Mb

My User Profile
- 800 modified txt configs
- 200 installed packages

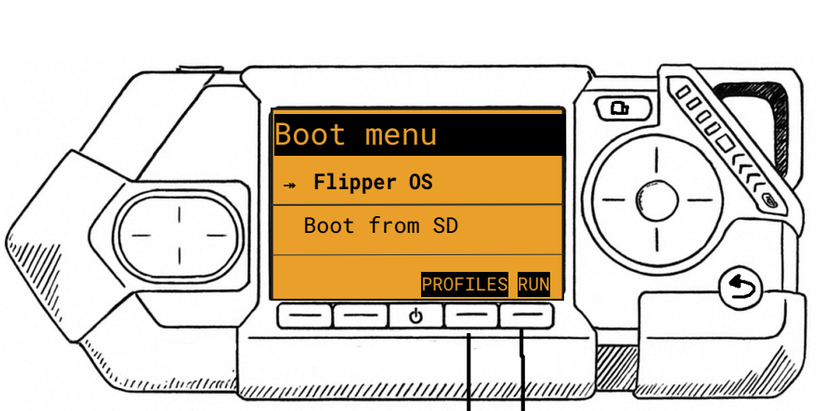
Size: 8GB

My Cool Wayland Dekstop
- 800 modified txt configs
- 200 installed packages

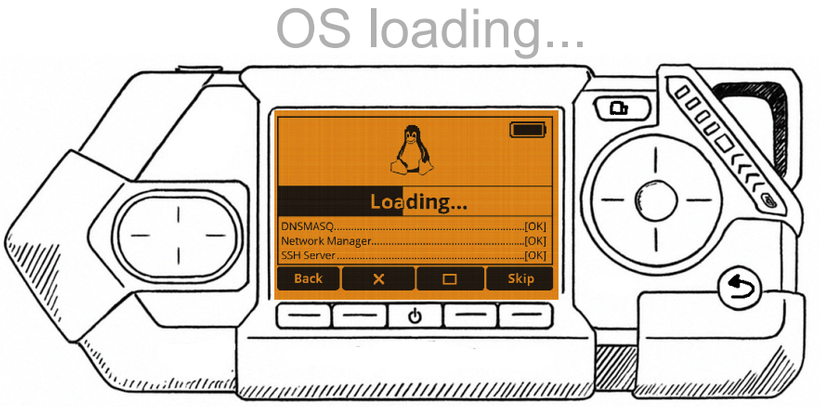
Size: 8GB

External Storage (SD Card)
Profiles + User Data

Boot menu (U-boot?)

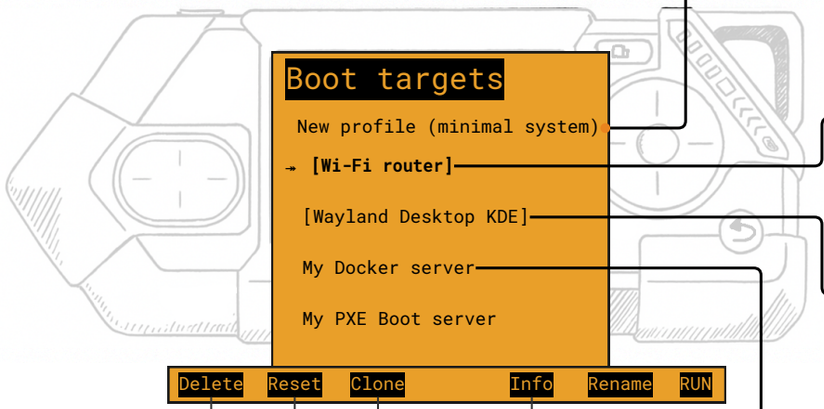


OS loading...



Start default profile

Boot profiles (targets)



New pofile — boot new snapshot with minimal system with default settings. Generates new random profile name every time.

Wi-Fi Router — preconfigured built-in profile.
All user changes will be saved inside profile.

User can:
* Reset — restore settings to default
* Clone — clone modified or default profile
* Info — see size, last modified/boot date
* CAN NOT DELETE, only reset to default

Wayland Desktop KDE — preconfigured built-in profile

My Docker server — user generated profile.
All user changes will be saved inside profile.

User can:
* Clone — make full profile copy
* Info — see size, last modified/boot date
* Delete

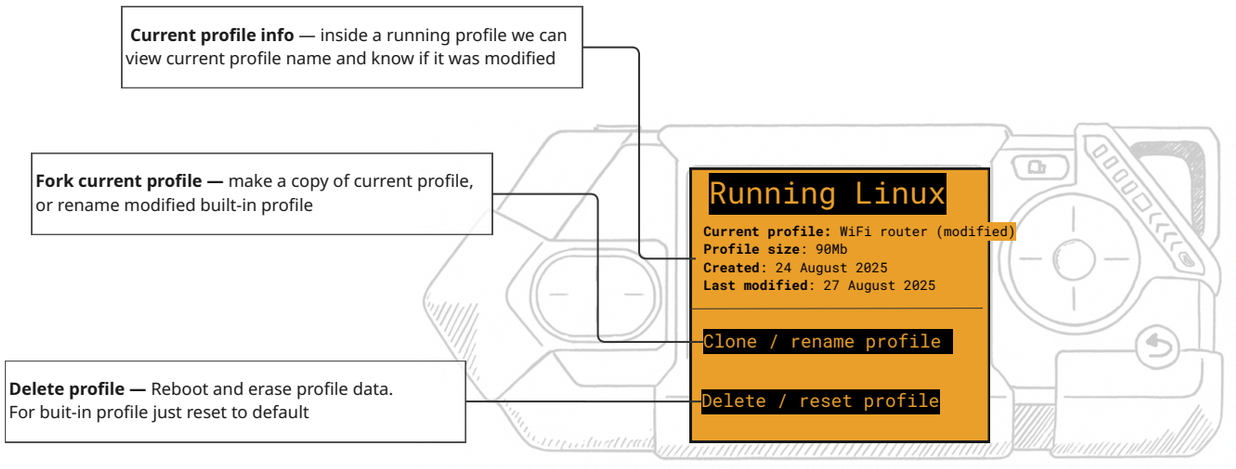
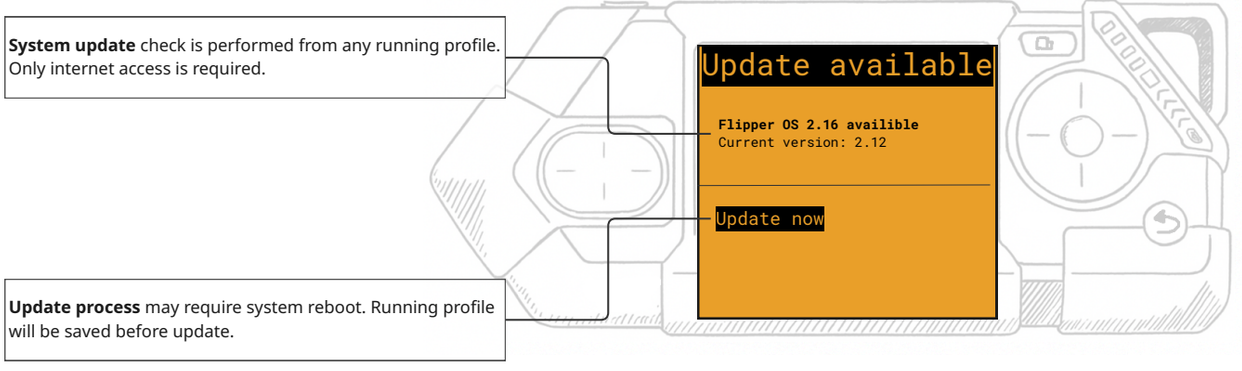
Delete profile and its data.
Only for user profiles.
Built-in profiles can not be deleted

Restore profile settings to default. Only for built-in profiles

Copy profile & data

Show profile data size
Created/last used date

Running system



System Update