

UnJailPi

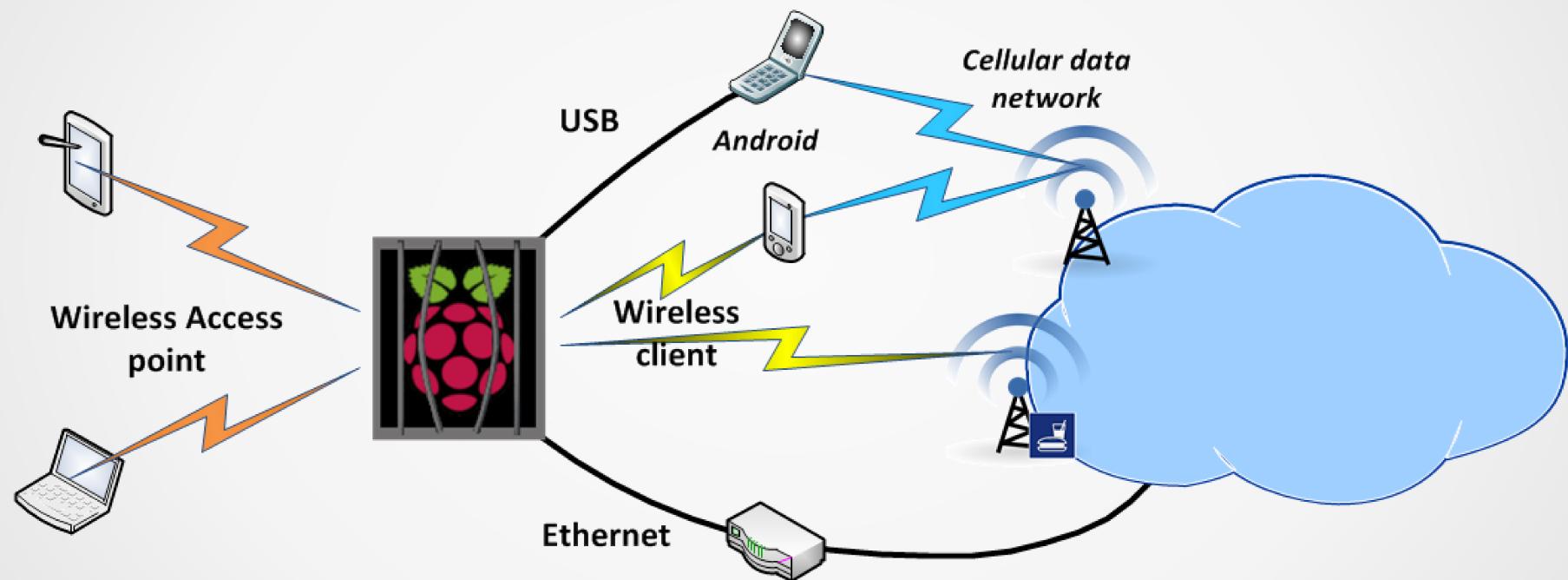


Web Privacy Everywhere

Features

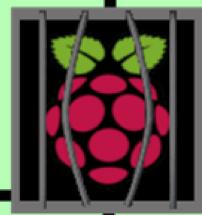
- Secure wireless access point
- On-demand OpenVPN transparent proxy : Point to point tunneling with internet forwarding
- On-demand Tor transparent proxy : Anonymous browsing, access forbidden websites / services based on location
- Designed for ease of use
- Autonomous
- Uses only Libre software

Autonomous Mobile Access Point



Wireless clients :
*Computer, laptop, smartphone, tablet, iThing
Windows, Linux, OSX, Android*

Secure Wireless
Access Point



USB

WiFi

Ethernet

Android
device

Public
Access
Point

Ethernet
Network

Cellular
Data
Network

Internet Provider

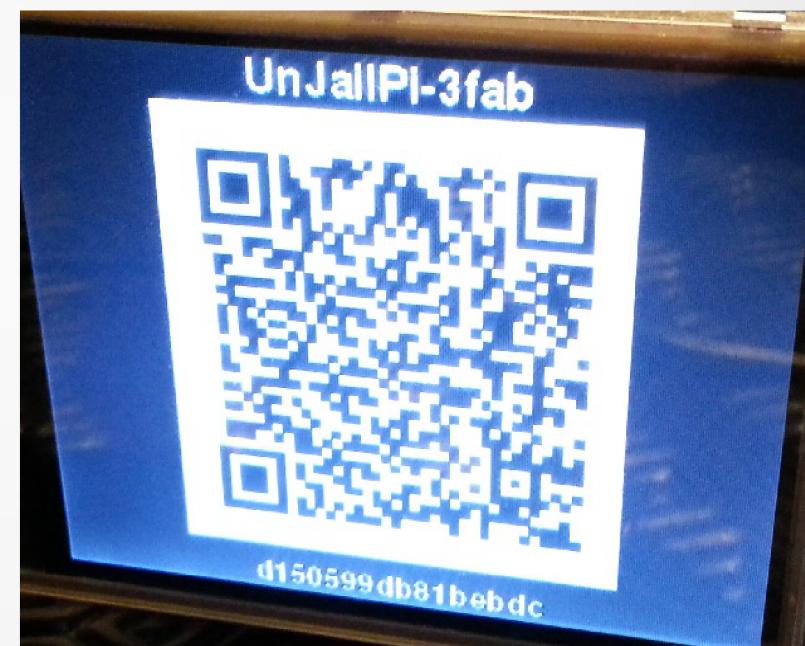
Internet

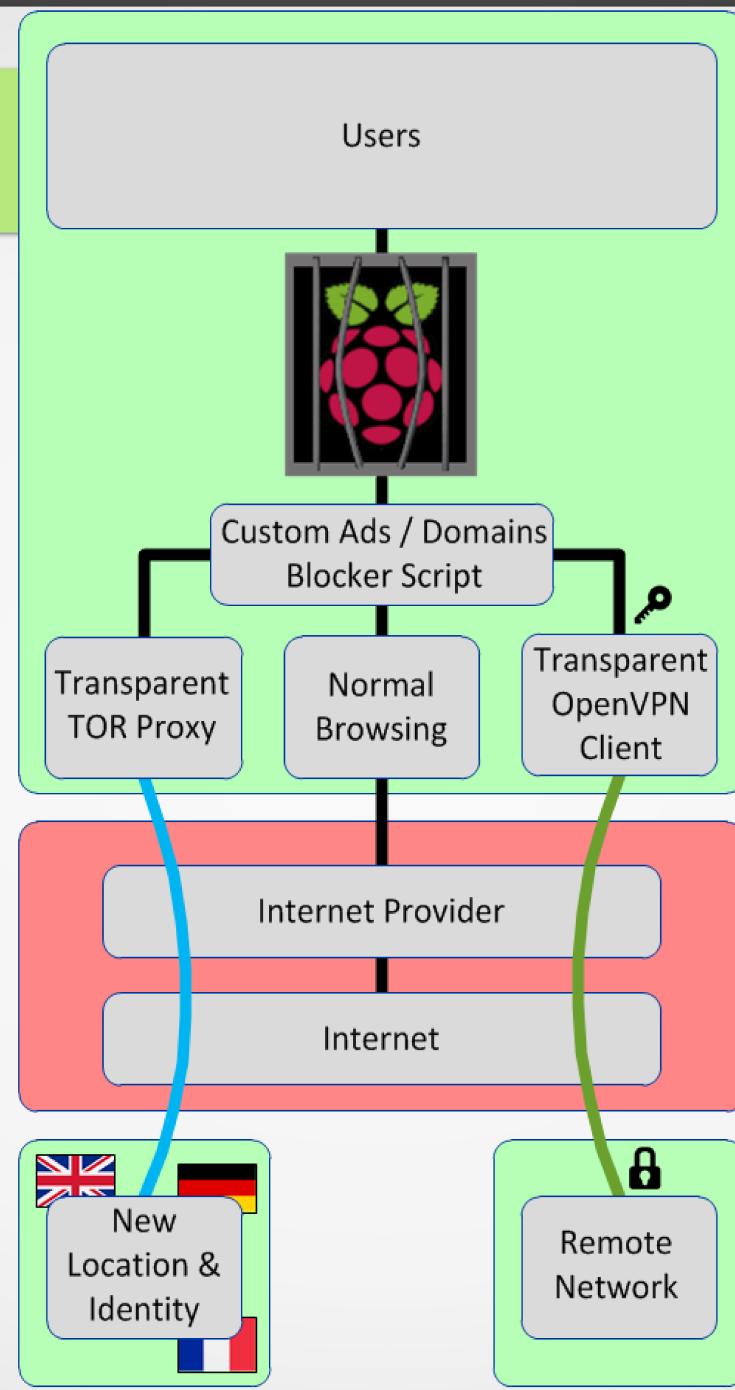
Secure

Unsecure

Access Point Features

- Random SSID / passphrase feature (on boot / on demand)
- Hardcoded WPA2-PSK security
- DHCP server
- Internet forwarding
- Dynamically addressed firewall rules
- Ad-blocker script with quick custom rules
- Fast connection with Android using QR code

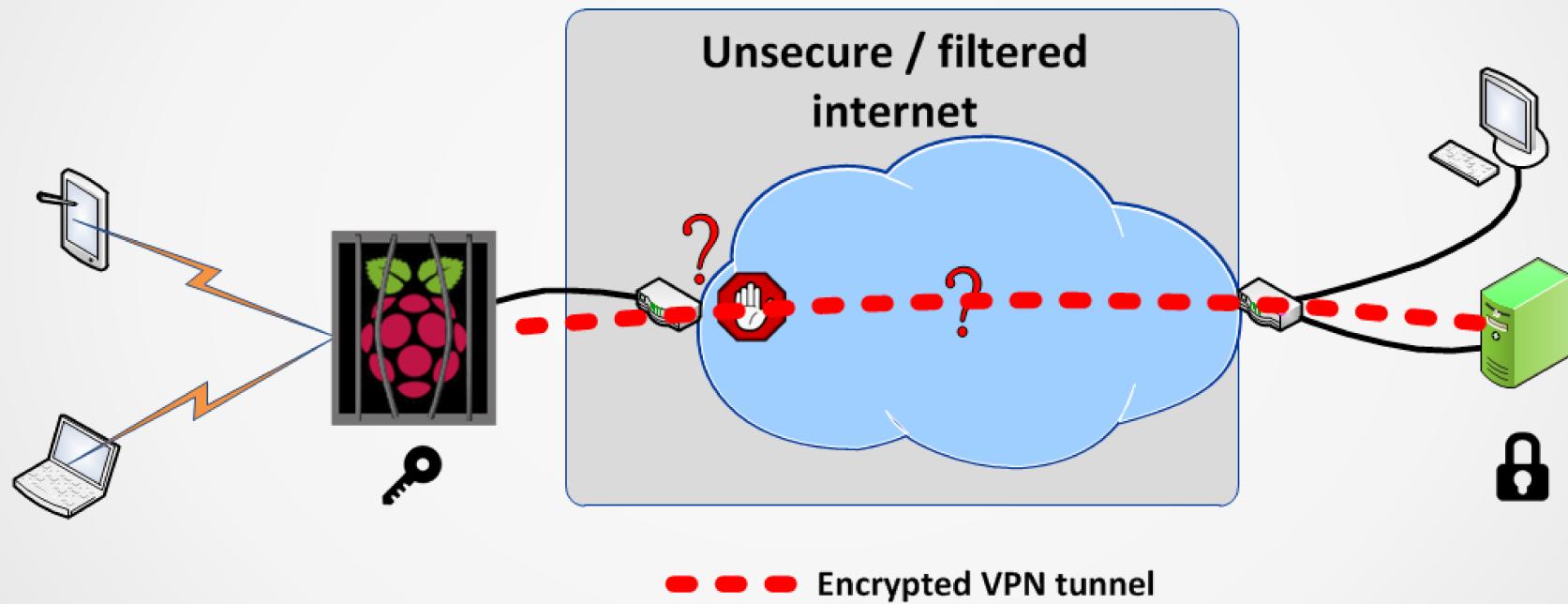




Secure

Unsecure

A Transparent OpenVPN proxy

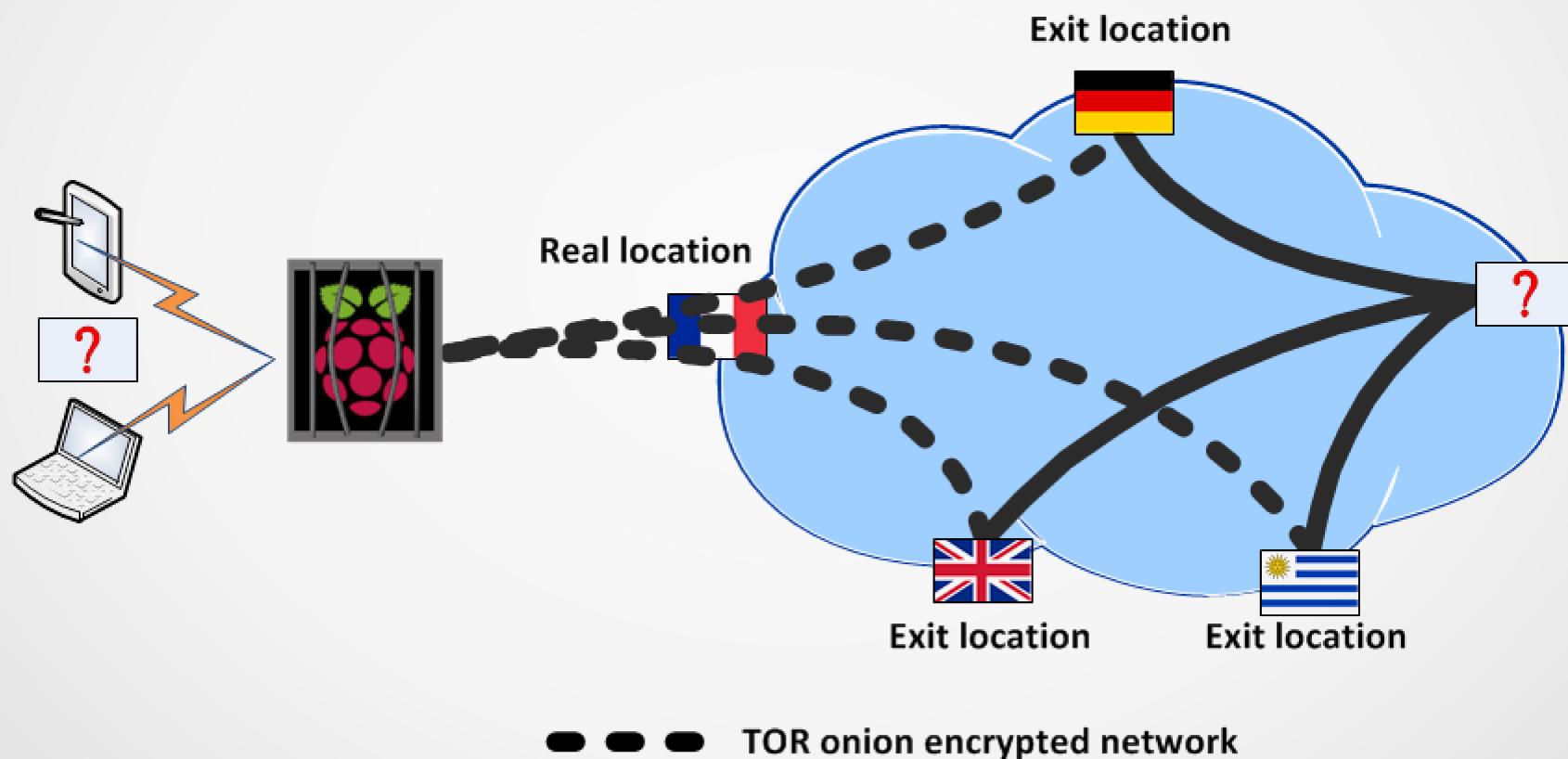


OpenVPN Features

- Point to point tunneling with internet forwarding
- Capable of traversing NATs, firewalls, and various web filters
- Very stable and fast over wireless, cellular and other non reliable networks
- No major vulnerabilities and considered extremely secure
- Designed for use with a companion server device hosted in a secure location
- **Protocol :** OpenVPN
- **Authentication :** self-generated SSL certificate
- **Encryption :** AES-256

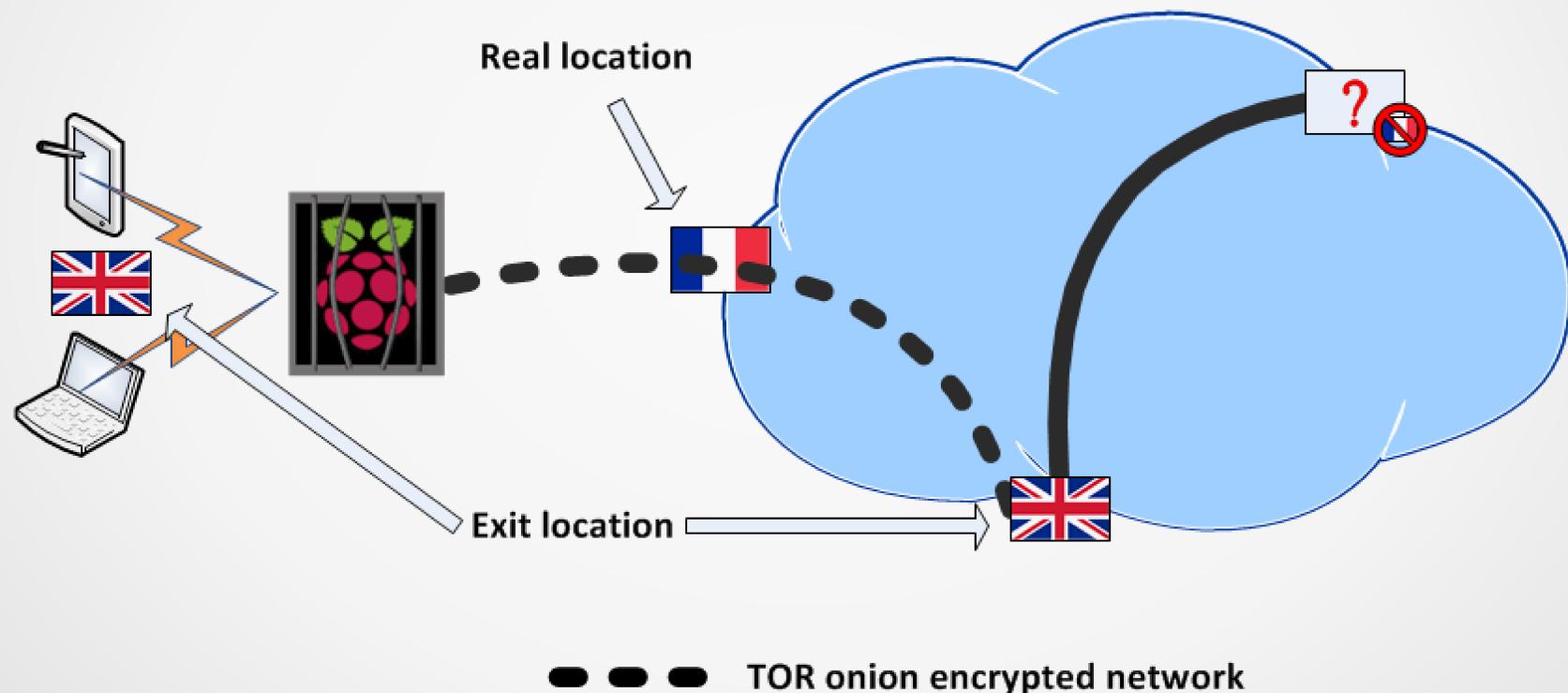
A Transparent TOR Proxy

- Anonymous browsing



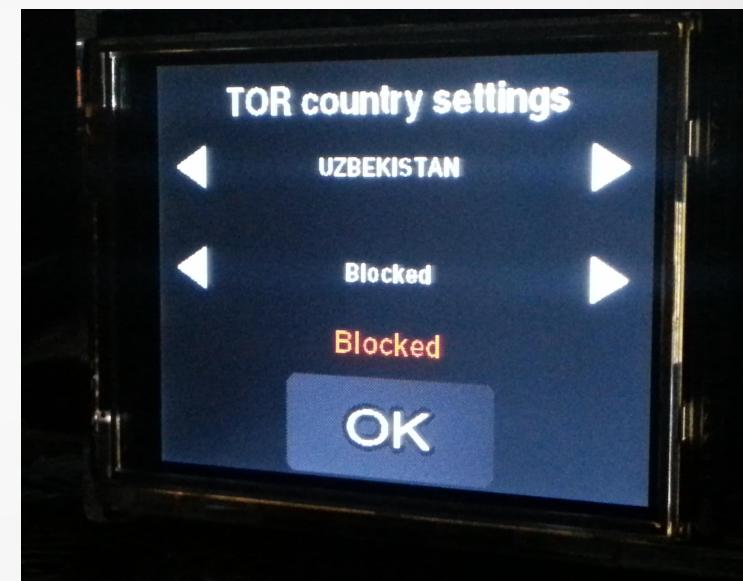
A Transparent TOR Proxy

- Access forbidden websites / services based on location



TOR Features

- Ability to use a random encrypted circuit
- Locked to only allow predefined allowed services to prevent misuses or abuses
- No additional setup needed on the end device
- Force / blocks circuits based on location (246 countries listed)



TOR Features

- Prevents people from learning your physical location or browsing habits
- Helps defend individuals against traffic analysis
- Helps people to use online services blocked by their local Internet providers
- Helps businesses to keep their strategies confidential
- Helps activists to anonymously report abuses or corruption
- Helps journalists to protect their research and sources online

Additional Features

- Touch display + control software
- Software and OS on accessible SD-card : easy and economical to maintain, repair, replace
- Very low power consumption : ~5 Watts, runs on a phone charger (1 Amp mini)
- Onboard battery : ~4h running time
- External battery : adds ~8h and charges onboard battery
- Very easy to clone, deploy, and customize to various uses

Target audience

- People who want to fight a form of network surveillance that threatens personal freedom and privacy
- Every kind of job/activity that require confidentiality / privacy / security
- Every kind of job/activity that require secure remote access
- Journalists
- Activists

Planned improvements

- Privacy filters profiles
- Improved web filtering
- Wifi client features
- File system encryption / Kill switch
- Installation / updater functions
- Porting on a more powerful and compact board, overall cost reduction
- Version #1 : handheld device with onboard wifi adapter, battery
- Version #2 : autonomous router-like box with 4 LAN + 1 WAN + onboard wifi

Used Licences / Software parts

- Creative Commons Attribution-ShareAlike
- GNU General Public License 2 or 3
- Apache Licence 1.0
- BSD Licence
- PHP Licence
- MIT Licence



References

Project page

[Http://hardware-libre.fr](http://hardware-libre.fr)

Project page on HackaDay

<http://hackaday.io/project/2040>

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