



## The Ugly Hack



IceCatMobile  
Web browser



Liphone  
Encrypted voice caller



Conversations  
Client for XMPP  
federated messaging



Tusky  
Client for ActivityPub  
federated social networks



Thorium  
Client for ActivityPub  
federated video networks



K-9 Mail + OpenKeychain  
OpenPGP encrypted email



Tiny Tiny RSS  
News reader



Syncthing  
Decentralized file  
synchronization



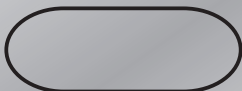
NextCloud  
Online office productivity  
and collaboration suite



OsmAnd  
Map navigator



KeePass DX  
Password manager





## The Ugly Hack

### Hardware

- Non-free\* designs and official manuals
- Chosen to minimize freedom hazards
- Some parts are unrepairable
- Removable battery

### Software

- Free system and apps
- Lack of free drivers and firmware for some hardware
- Graphics rendering is slow
- Non-free bootloader, but can run the systems you want
- Modem firmware:
  - Non-free
  - Cannot see main memory
  - Cannot record audio when not in a call

\* Free as in freedom



<https://replicant.us/freedom-privacy-security-issues.php>