

# libsamsung-ipc

libsamsung-ipc is a free software implementation of the Samsung IPC modem protocol, found in many Samsung devices. libsamsung-ipc contains the device-specific code for transport between the kernel interface and the upper layer (usually, the Radio Interface Layer) and the definition of the data structures and values used in the protocol.

## Development

The [libsamsung-ipc source code](#) is hosted by the Replicant project. The latest version is available on the master branch. It has support for both the Android build system and autotools.

## Other project using it or having used it without libsamsung-ril

- [Freesmartphone.org Cornucopia](#)

## Status

The library itself is mostly complete: the actual protocol work takes place in the upper layer implementations, so only new devices support is left to be added.

## Tools

libsamsung-ipc ships with some tools to ease development.

### ipc-modem

ipc-modem is a deprecated tool that was used at the beginning of the work for talking to the Nexus S modem. It implements basic functionalities (mostly SIM unlocking and network registration), using libsamsung-ipc.

```
usage: ipc-modem <command>
commands:
  start          boot modem and start read loop
  boot           boot modem only
  power-on       power on the modem
  power-off      power off the modem
arguments:
  --debug        enable debug messages
  --pin=[PIN]   provide SIM card PIN
```

### ipc-test

ipc-test is a very minimalistic tool that simply boots up the modem and receives messages as they arrive. It is intended to ease boot code development by providing a standalone binary.