

Opticon Module Compilation - For 15.05.1 - Kernel version 3.18.23 - Lawrence Billson

These instructions are written for "Future Lawrence" - they are what I used to build an opticon module so I could read barcodes with my little OpenWRT router. I hope nobody ever has to follow them.

- Download the OpenWRT prerequisites
 - `sudo apt-get update`
 - `sudo apt-get install git-core build-essential libssl-dev libncurses5-dev unzip gawk`
 - `sudo apt-get install subversion mercurial`
- Compile the kernel module package
 - Be a NON-ROOT user!
 - `mkdir parkrunportale`
 - `cd parkrunportale`
 - `git clone http://git.openwrt.org/15.05/openwrt.git`
 - `cd openwrt`
 - `git reset --hard df520761523ad7e6d91841b6b8ea368e255c0baa`
 - `./scripts/feeds update -a`
 - `./scripts/feeds install -a`
 - `make defconfig`
 - `make prereq`
 - Edit the `openwrt/package/kernel/linux/modules/usb.mk`
 - Copy the PL2303 section
 - Substitute 'opticon' for pl2303
- Make menuconfig
 - Select the target system (probably Ralink), select the subtarget system MT7620
 - Select Kernel Modules, USB support, USB-serial,
 - Chose PL2303 and Opticon
 - Select Save
- `make` ; or `make V=s` if you need debug
- If it's all gone right, the Kernel module will be here:
`./bin/ramips/packages/base/kmod-usb-serial-opticon_3.18.23-1_ramips_24kec.ipk`