

# LEDE (OpenWRT)

- [Garys github](#)
- [Forum \(img\)](#)
- [Forum \(compile\)](#)

```
git clone https://github.com/garywangcn/bpi-r2_lede.git
cd bpi-r2_lede/
git checkout bpi-r2-on-lede-v1
make menuconfig
```

here "Target System" must be set to "MediaTek Ralink ARM" and in "Boot Loaders" the entry "u-boot-bpi\_r2" must be selected with a \*

build with:

```
make -j1 V=s
```

nach dem kompilieren liegen 2 img-Dateien im Ordner build\_dir/target-arm\_cortex-a7+neon-vfpv4\_musl\_eabi/linux-mediatek\_32/:

```
frank@Frank-Laptop:/media/data_ext/bpi-r2_lede$ ls -lh build_dir/target-arm_cortex-a7+neon-vfpv4_musl_eabi/linux-mediatek_32/*.img
-rw-r--r-- 1 frank frank 67M Jan 16 12:03 build_dir/target-arm_cortex-a7+neon-vfpv4_musl_eabi/linux-mediatek_32/mtk-bpi-r2-EMMC.img
-rw-r--r-- 1 frank frank 67M Jan 16 12:03 build_dir/target-arm_cortex-a7+neon-vfpv4_musl_eabi/linux-mediatek_32/mtk-bpi-r2-SD.img
```

img-files are on my [gdrive](#)

Please note that lede currently not support hdmi-output (you will see only a purple screen).

## SD

```
dd if=mtk-bpi-r2-SD.img of=/dev/sdx
```

## EMMC

1. Copy EMMC image to a running system which is on SD card
2. start system and look which mmcblk is the emmc: cat /proc/partitions (search for boot0 and this mmcblk [0|1] is the emmc)
3. flash EMMC image to User Data Area of EMMC: dd if=mtk-bpi-r2-EMMC.img of=/dev/mmcblkX
4. Unlock EMMC boot0 block: echo 0 > /sys/block/mmcblkXboot0/force\_ro
5. flash preloader to EMMC boot0 block: dd if=mtk-bpi-r2-EMMC.img of=/dev/mmcblkXboot0 bs=1M count=1
6. Change the Partition configuration of EMMC to 48h: reboot the system which is running from SD,

and enter the [U-boot-console](#), run command "emmc pconf 48"

7. Power off, remove SD card, and then power on R2 board.

## Network-configuration

By default lan-ports are bridged together with IP-address 192.168.1.1

Further configuration see here: <https://wiki.openwrt.org/doc/uci/network>

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