

Speicher

https://github.com/BPI-SINOVOIP/BPI-R64-BSP/blob/master/scripts/dd_download.sh

image: <https://github.com/BPI-SINOVOIP/BPI-R64-BSP/blob/master/scripts/bootloader.sh>

```
PRELOADER=$TOPDIR/mt-pack/mtk/${TARGET_PRODUCT}/bin/preloader_bpi-
r64_forsdcad-2k.img
ATF=$TOPDIR/mt-pack/mtk/${TARGET_PRODUCT}/bin/BPI-R64-atf.img
UBOOT=$TOPDIR/u-boot-mt/u-boot-mtk.bin

HEAD0=$TOPDIR/mt-pack/mtk/${TARGET_PRODUCT}/bin/BPI-R2-HEAD440-0k.img
HEAD1=$TOPDIR/mt-pack/mtk/${TARGET_PRODUCT}/bin/BPI-R2-HEAD1-512b.img

sudo dd if=$HEAD0 of=$0 bs=512 seek=0 #0
sudo dd if=$HEAD1 of=$0 bs=512 seek=1 #512 = 0x200

sudo dd if=$PRELOADER of=$0 bs=1k seek=2 #2k = 0x800

sudo dd if=$ATF of=$0 bs=1k seek=512 #512k = 0x80000

sudo dd if=$UBOOT of=$0 bs=1k seek=768 #768k = 0xC0000

# partition1 /dev/sdc1 vfat 204800~327679
# partition2 /dev/sdc2 ext4 327680~end

root@x:~# sfdisk /dev/sdb < r64_parttable.dat
root@x:~# mkfs.vfat /dev/sdb1
root@x:~# mkfs.ext4 /dev/sdb2
root@x:~# fatlabel /dev/sdb1 BPI-BOOT
root@x:~# e2label /dev/sdb2 BPI-ROOT
```

<https://github.com/BPI-SINOVOIP/BPI-R64-BSP/tree/master/mt-pack/mtk/bpi-r64/bin>

only uboot-mtk.bin (with littlekernel=LK) works

EMMC

habe bootprozess noch nicht hinbekommen...scheinbar ist der preloader nicht mit emmc kompatibel

- boot0-block existiert, aber lt. mmc-utils partconfig 0x0 (sollte 0x48 sein)

```
root@bpi-r64:~# ./mmc extcsd read /dev/mmcblk1 | grep 'PARTITION_CONFIG'
Boot configuration bytes [PARTITION_CONFIG: 0x00]
root@bpi-r64:~# ./mmc bootpart enable 1 1 /dev/mmcblk1
root@bpi-r64:~# ./mmc extcsd read /dev/mmcblk1 | grep 'PARTITION_CONFIG'
Boot configuration bytes [PARTITION_CONFIG: 0x48]
```

- von sd-Karte booten

```
root@bpi-r64:~# ls /dev/mmcblk*
/dev/mmcblk0    /dev/mmcblk0p2  /dev/mmcblk1boot0  /dev/mmcblk1rpmb
/dev/mmcblk0p1 /dev/mmcblk1    /dev/mmcblk1boot1
root@bpi-r64:~# sfdisk -d /dev/mmcblk0 > r64_parttable.dat
root@bpi-r64:~# sfdisk /dev/mmcblk1 < r64_parttable.dat
...
root@bpi-r64:~# ls /dev/mmcblk*
/dev/mmcblk0    /dev/mmcblk1      /dev/mmcblk1p1
/dev/mmcblk0p1 /dev/mmcblk1boot0 /dev/mmcblk1p2
/dev/mmcblk0p2 /dev/mmcblk1boot1 /dev/mmcblk1rpmb
#lan-port konfigurieren
root@bpi-r64:~# ip addr add 192.168.0.18/24 dev eth0
root@bpi-r64:~# ip route add default via 192.168.0.10
root@bpi-r64:~# echo "nameserver 192.168.0.10">/etc/resolv.conf
root@bpi-r64:~# wget
https://github.com/BPI-SINOVOIP/BPI-R64-BSP/raw/master/mt-p
ack/mtk/bpi-r64/bin/preloader_bpi-r64_forsdcard-2k.img
root@bpi-r64:~# echo 0 > /sys/block/mmcblk1boot0/force_ro
root@bpi-r64:~# dd if=preloader_bpi-r64_forsdcard-2k.img
of=/dev/mmcblk1boot0
```

From:

<http://www.fw-web.de/dokuwiki/> - **FW-Web - Wiki**

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<http://www.fw-web.de/dokuwiki/doku.php?id=bpi-r64:storage&rev=1549205529>

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