

Radxa Linux

Download image and Linux_Upgrade_Tool_v1.21

```
# format
sudo upgrade_tool lf

# upload image
sudo upgrade_tool uf rock_pro_rabian_150725_2ce6708_nand.img
```

custom rabian

- <http://radxa.com/Rabian/develop>
- <https://github.com/radxa/rabian-build>

```
apt-get install qemu binfmt-support qemu-user-static
sudo apt-get install git-core flex bison build-essential gcc-arm-linux-
gnueabi libncurses5-dev zlib1g-dev sharutils lzop
```

```
sudo ln -s /usr/bin/arm-linux-gnueabi-gcc /usr/bin/arm-linux-gcc
```

All'interno di rock-bsp

nel Makefile di rock-bsp/Makefile

```
KERNEL_SRC=/lab/radxa/linux-next
```

copiato radxa_rock_pro_linux_hdmi_defconfig in \$KERNEL_SRC/arch/arm/configs/

- make kernel-config - configure the linux kernel"
- make uboot - compile uboot"
- make kernel - compile kernel"
- make ramdisk - prepare initrd.img"
- make rootfs - prepare rootfs"

- make boot.img - prepare linux-boot.img"
- make nand.img - generate nand.img"
- make sdcard.img - generate sdcard.img"

write image to nand

```
# optionally make format
# sudo upgrade_tool lf

sudo upgrade_tool uf /lab/radxa/rabian-build/160527/rock-
bsp/boards/rock_pro/rockdev/rock_pro_rabian_rock_pro_160529_30273dc_nand.img
```

custom kernel

```
sudo apt-get install build-essential gcc-arm-linux-gnueabihf lzop
libncurses5-dev libssl-dev bc parted build-essential libusb-1.0-0-dev

# checkout linux-next
cd linux-next
export ARCH=arm
export CROSS_COMPILE=arm-linux-gnueabihf-

wget http://rockchip.fr/radxa/linux/rockchip_defconfig -O
arch/arm/configs/rockchip_defconfig
wget http://rockchip.fr/radxa/linux/rk3188-radxa-rock.dts -O
arch/arm/boot/dts/rk3188-radxa-rock.dts

cp arch/arm/configs/rockchip_defconfig .config

# change this in .config
# CONFIG_CMDLINE="console=tty0 console=ttyS2,115200 debug earlyprintk
root=/dev/block/mtd/by-name/linuxroot rootwait rootfstype=ext4 rw splash"

make menuconfig

make -j6 zImage dtbs

mkdir modules
export INSTALL_MOD_PATH=./modules
make modules && make modules_install

cat arch/arm/boot/zImage arch/arm/boot/dts/rk3188-radxa-rock.dtb > zImage-dtb
mkbootimg --kernel zImage-dtb --ramdisk /dev/null -o boot.img

wget http://dl.radxa.com/rock/images/parameter/parameter_linux_nand

sudo rkflashtool P < parameter_linux_nand
sudo rkflashtool w boot < boot.img
sudo rkflashtool b
```

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