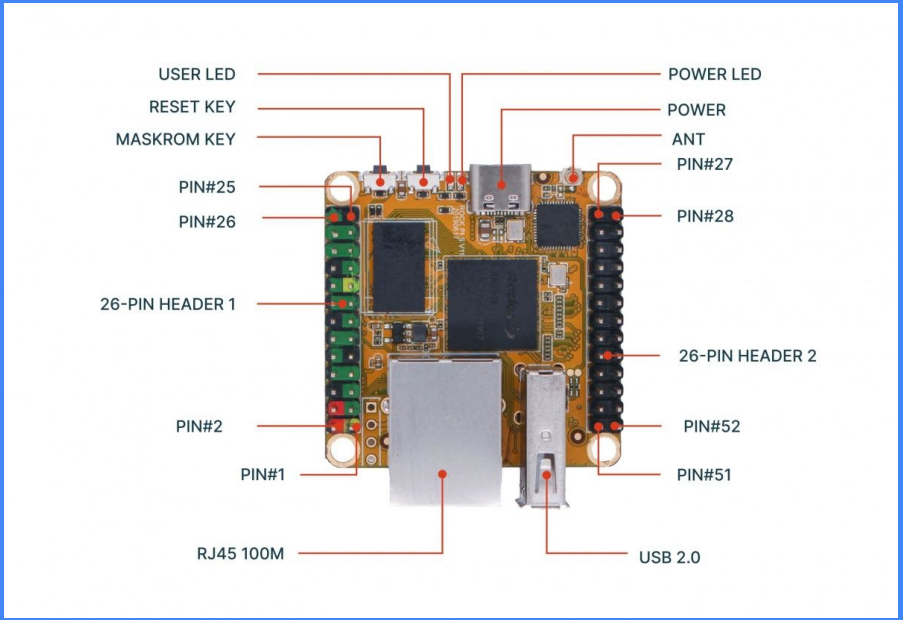
RockPi

IoT Introduction



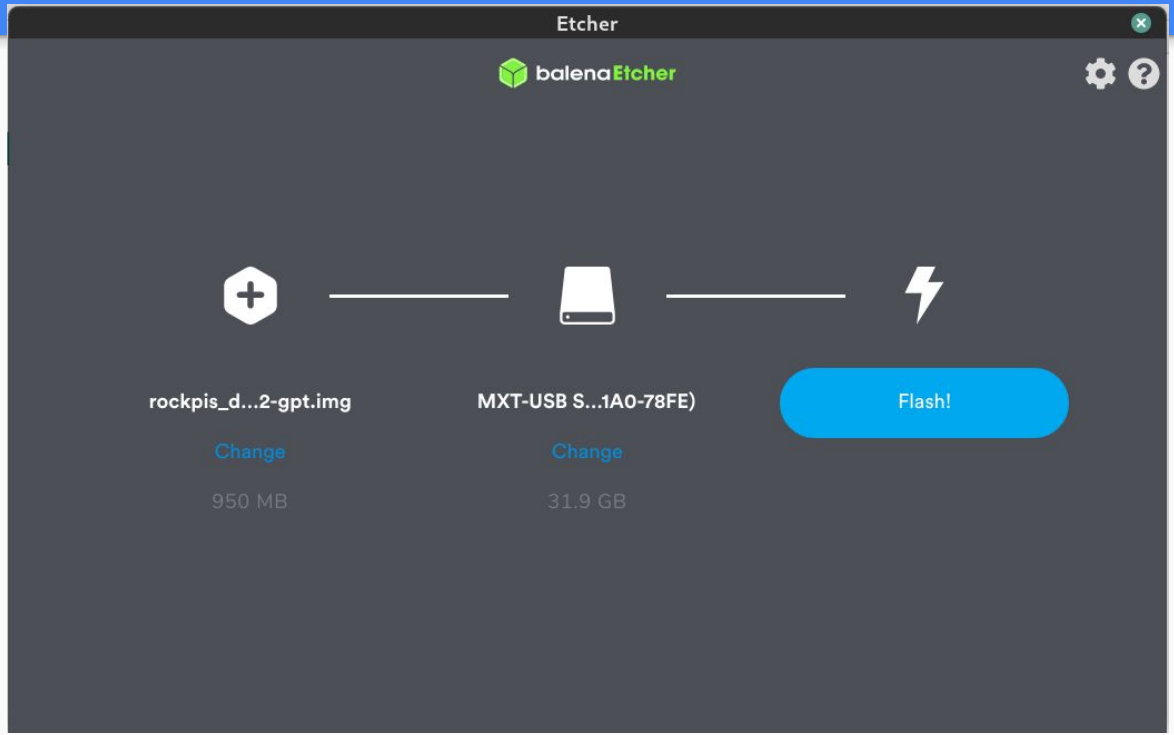
https://gitlab.fi.muni.cz/iot-courses/pv284.git

Download and Flash Debian Image

Etcher - flash application

Debian Image

https://wiki.radxa.com/RockpiS/downloads



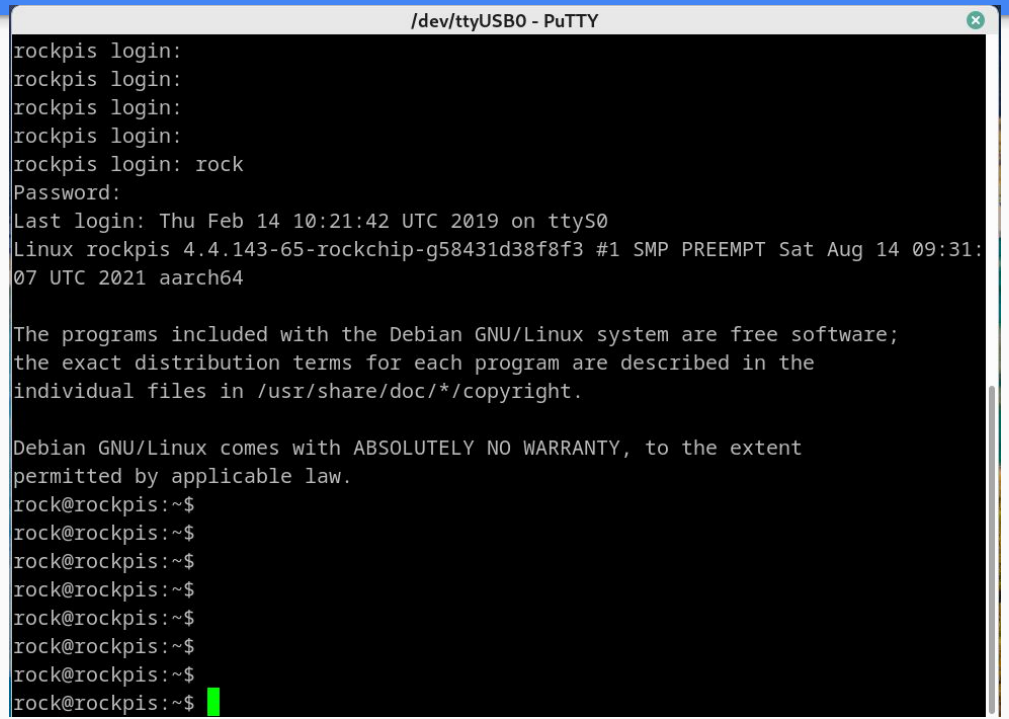
Connection to RockPI

Windows or Linux:

RockpiS/Debian - Radxa Wiki

https://wiki.radxa.com/RockpiS

https://wiki.radxa.com/RockpiS/hardware/gpio

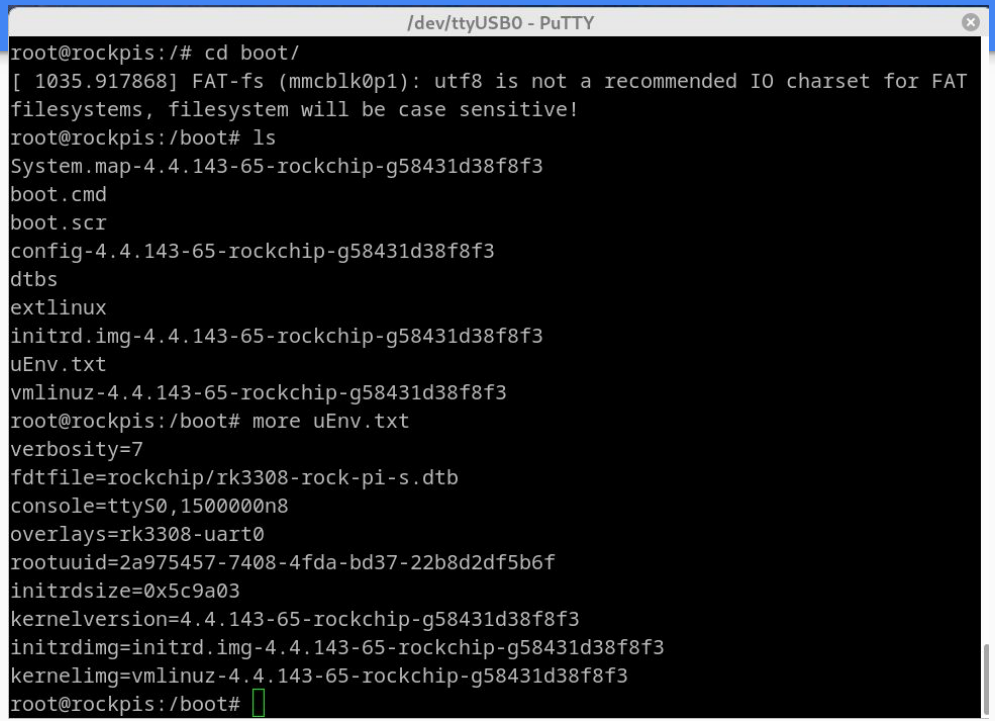


Console speed modification

console speed in /boot uEnv.txt

The console speed needs to be changed to:

console=ttyS0,9600n8



Programming RockPi

https://wiki.radxa.com/RockpiS/dev/libmraa

apt-get update – fix-missing

apt-get upgrade

apt-get install libmraa

apt-get install -y build-essential

libmraa

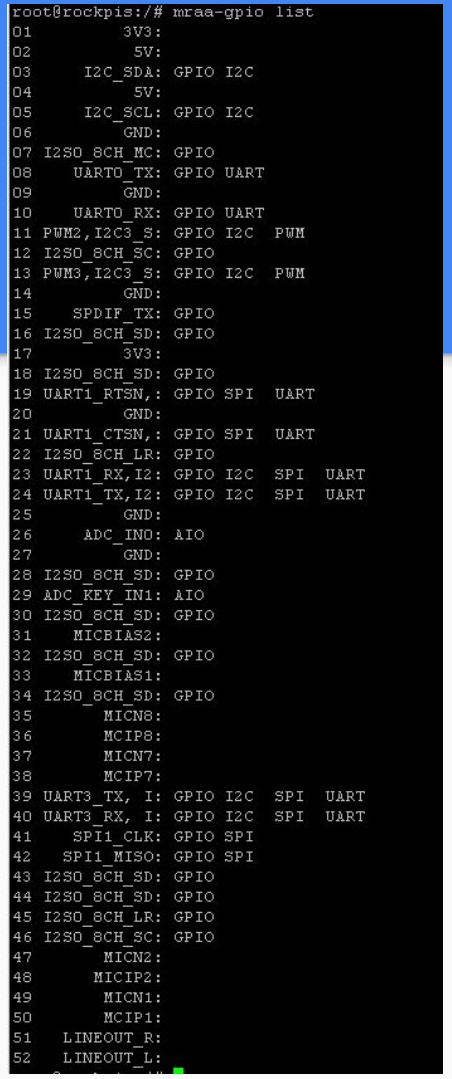
mraa-gpio list

A test with push-button application:

mrra-gpio set 12 0

12 = GP-1 GPIO2_A5 (LED pin in the hardware description)

0 = pin's value



libmraa

cp -av /usr/local/share/mraa/examples/c /home/rock/mraa-examples

cd /home/rock/mraa-examples

Compiling - example:

rock@rockpis:~/mraa-examples$ **gcc -o** test-spi test-spi.c **-lmraa**