## BananaPi R2 - Debug-UART

- USB2Serial-Adapter (e.g. CP2102 or FTDI, known problems with Profilic- and ch340g-Chipsets)
- using Uart-Pins (not 40-pin-connector)
- each TX  $\Rightarrow$  RX (r2 tx to rx of usb2serial, tx of usb2serial to r2 rx)
- application for PC:
  - Linux: minicom
  - $\circ~$  Windows: putty
- settings: 115200 8N1 FlowControl: off



micro-usb-cp2102-adapter: https://www.ebay.de/itm/CP2102-MICRO-USB-to-UART-TTL-Module-6-Pin-Serial-Converter-STC-Replace -FT232/401269171476

## configurating Putty

Windows-driver for CP2102: https://www.silabs.com/products/development-tools/software/usb-to-uart-bridge-vcp-drivers

## cp210x\_universal\_windows\_driver.zip

RuTTY Reconfiguration			? ×	
Category:				
G-Session	Options controlling local serial lines			
Ungging	Configure the serial line			
Forghead     Pedres     Ped	Speed (baud)	115200		
	Data <u>bita</u>	8		
	Stop bits	1		
	Denty	None	~	
	Elevented	None	~	
		6894y	Çancel	

reg-file Putty-session (com-port must be changed):

bpi-r2-serial-putty-reg.zip

## configurating minicom

first get name of device:

```
grep ttyUSB /var/log/syslog
Oct 15 12:44:59 Frank-Laptop kernel: [ 5113.456306] usb 3-1: cp210x
converter now attached to ttyUSB0
ls -l /dev/ttyUSB0
crw-rw---- 1 root dialout 188, 0 Mai 10 15:12 /dev/ttyUSB0
#add current user to group dialout (for access to tty-device)
sudo adduser $USER dialout
#login/logout needed to join the group
```

#show groups of the user

```
frank adm dialout cdrom sudo dip plugdev lpadmin sambashare
```

Install minicom & setup

groups

```
sudo apt-get install minicom
sudo minicom -s
```

-	+			•
	A - Serial Device	:	/dev/ttyUSB0	
	B - Lockfile Location	:	/var/lock	
	C - Callin Program	:		
	D - Callout Program	:		
	E - Bps/Par/Bits	:	115200 8N1	
	F - Hardware Flow Control	:	No	
	G - Software Flow Control	:	No	
	Change which setting?			
			++	

- "save as .dfl"
- "Exit from Minicom"

now start minicom as user (without sudo)

exit with Ctrl+a,q or Ctrl+a,x

From: https://www.fw-web.de/dokuwiki/ - **FW-WEB Wiki** 

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