**My Radioberry Setup—08 October 2022**

Radioberry VERSION 2.0 BETA 3 FPGA Cyclone CL016 ,

Pins 53 and 69 shorted

Raspberry PI version 4

Official Raspberry Pi Power supply

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pi@RBerry:~ $ uname -a

Linux RBerry 5.10.63-v7l+ #1496 SMP Wed Dec 1 15:58:56 GMT 2021 armv7l GNU/Linux

pi@RBerry:/etc $ head debian\_version

10.11

pi@RBerry:/etc $ head os-release

PRETTY\_NAME="Raspbian GNU/Linux 10 (buster)"

NAME="Raspbian GNU/Linux"

VERSION\_ID="10"

VERSION="10 (buster)"

VERSION\_CODENAME=buster

ID=raspbian

ID\_LIKE=debian

HOME\_URL="http://www.raspbian.org/"

SUPPORT\_URL="http://www.raspbian.org/RaspbianForums"

BUG\_REPORT\_URL=<http://www.raspbian.org/RaspbianBugs>

pi@RBerry:~ $ sudo modinfo radioberry

filename: /lib/modules/5.10.63-v7l+/kernel/drivers/sdr/radioberry.ko

version: 93

license: GPL

description: Radioberry SDR device driver. (rpi-4)

author: Johan Maas - pa3gsb@gmail.com

srcversion: 7DA31321808D83C8A35982D

alias: of:N\*T\*Csdr,radioberryC\*

alias: of:N\*T\*Csdr,radioberry

depends:

name: radioberry

vermagic: 5.10.63-v7l+ SMP mod\_unload modversions ARMv7 p2v8

pi@RBerry:/etc $ sudo radioberry status

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 Radioberry V2.0

 Supports 4 receivers and 1 transmitter.

 Build version: 2021.09.26

 Have fun Johan PA3GSB

 Report requests or bugs to <pa3gsb@gmail.com>.

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Failed to open /dev/radioberry: Device or resource busy

pi@RBerry:/etc $ sudo systemctl start radioberry

pi@RBerry:/etc $ sudo radioberry status

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Failed to open /dev/radioberry: Device or resource busy

pihpsdr \*\*\*\*\*\*//starting pihpsdr from terminal window //\*\*\*\*

Build: includes MIDI

GTK+ version 3d.24d.5d

sysname: Linux

nodename: RBerry

release: 5.10.63-v7l+

version: #1496 SMP Wed Dec 1 15:58:56 GMT 2021

machine: armv7l

load\_css

width=1024 height=768

display\_width=1024 display\_height=600

create top level window

full screen

setting top window icon

Warning: failed to set icon for top\_window

Failed to open file “hpsdr.png”: No such file or directory

create grid

add grid

create image

add image to grid

create pi label

add pi label to grid

create build label

add build label to grid

create status

add status to grid

g\_idle\_add: init

init

(pihpsdr:1568): Gdk-CRITICAL \*\*: 16:11:38.249: gdk\_window\_set\_cursor: assertion 'GDK\_IS\_WINDOW (window)' failed

Securing wisdom file in directory: /home/pi/

state\_cb: 2

audio: state\_cb: PA\_CONTEXT\_AUTHORIZING

state\_cb: 3

audio: state\_cb: PA\_CONTEXT\_SETTING\_NAME

state\_cb: 4

audio: state\_cb: PA\_CONTEXT\_READY

loadProperties: protocols.props

clearProperties

clearProperties

Output: 0: alsa\_output.platform-bcm2835\_audio.digital-stereo (Built-in Audio Digital Stereo)

Output: 1: alsa\_output.platform-bcm2835\_audio.analog-stereo (Built-in Audio Analog Stereo)

old\_discovery

Input: 0: alsa\_output.platform-bcm2835\_audio.digital-stereo.monitor (Monitor of Built-in Audio Digital Stereo)

Input: 1: alsa\_output.platform-bcm2835\_audio.analog-stereo.monitor (Monitor of Built-in Audio Analog Stereo)

discover: looking for HPSDR devices on lo

discover: bound to lo

discover\_receive\_thread

old\_discovery: received 60 bytes

old\_discovery: name=HermesLite V1 min=0.000000 max=30720000.000000

old\_discovery: found device=6 software\_version=0 status=2 address=127.0.0.1 (00:01:02:03:04:05) on lo min=0.000000 max=30720000.000000

discovery: bytes read -1

old\_discovery: recvfrom socket failed for discover\_receive\_thread: Resource temporarily unavailable

discovery: exiting discover\_receive\_thread

discover: exiting discover for lo

discover: looking for HPSDR devices on wlan0

discover: bound to wlan0

discover\_receive\_thread

old\_discovery: received 60 bytes

old\_discovery: name=HermesLite V1 min=0.000000 max=30720000.000000

old\_discovery: found device=6 software\_version=0 status=2 address=192.168.1.10 (00:01:02:03:04:05) on wlan0 min=0.000000 max=30720000.000000

discovery: bytes read -1

old\_discovery: recvfrom socket failed for discover\_receive\_thread: Resource temporarily unavailable

discovery: exiting discover\_receive\_thread

discover: exiting discover for wlan0

Trying to detect at TCP addr 10.10.10.10

discover: select() timed out on TCP discovery socket

discovery found 2 devices

discovery: found device=6 software\_version=0 status=2 address=127.0.0.1 (00:01:02:03:04:05) on lo

discovery: found device=6 software\_version=0 status=2 address=XXX.XXX.1.10 (00:01:02:03:04:05) on wlan0

discovery: found 2 devices

(pihpsdr:1568): Gdk-CRITICAL \*\*: 16:11:45.843: gdk\_window\_set\_cursor: assertion 'GDK\_IS\_WINDOW (window)' failed

0xe09e8 Protocol=0 name=HermesLite V1

0xe0ae0 Protocol=0 name=HermesLite V1

showing device dialog

discovery: devices=2 autostart=1

(pihpsdr:1568): Gdk-CRITICAL \*\*: 16:11:45.917: gdk\_window\_set\_cursor: assertion 'GDK\_IS\_WINDOW (window)' failed

start\_radio: setup RECEIVERS protocol=0

start\_radio: setup RECEIVERS default

radioRestoreState: 00-01-02-03-04-05.props

loadProperties: 00-01-02-03-04-05.props

clearProperties

memRestoreState: restore memory

RESTORE: index=0 title=Active

RESTORE MEM:Mem 0=FreqA 7050000

RESTORE: index=0 mode=0

RESTORE: index=0 filter=3

RESTORE: index=1 title=10

RESTORE MEM:Mem 1=FreqA 7080000

RESTORE: index=1 mode=0

RESTORE: index=1 filter=3

RESTORE: index=2 title=10

RESTORE MEM:Mem 2=FreqA 7085000

RESTORE: index=2 mode=0

RESTORE: index=2 filter=3

RESTORE: index=3 title=10

RESTORE MEM:Mem 3=FreqA 7123450

RESTORE: index=3 mode=0

RESTORE: index=3 filter=3

RESTORE: index=4 title=10

RESTORE MEM:Mem 4=FreqA 15350000

RESTORE: index=4 mode=6

RESTORE: index=4 filter=3

vfo\_restore\_state: 0

vfo\_restore\_state: band=7 frequency=14010000

vfo\_restore\_state: 1

vfo\_restore\_state: band=7 frequency=14010000

gpio\_set\_defaults: 0

cannot determine device number: Inappropriate ioctl for device

cannot determine device number: Inappropriate ioctl for device

vfo\_init: width=760 height=60

meter\_init: width=200 height=60

create\_receiver: id=0 buffer\_size=1024 fft\_size=2048 pixels=1024 fps=10

create\_receiver: id=0 default adc=0

receiver\_restore\_state: id=0

create\_receiver (after restore): rx=0x205ee50 id=0 audio\_buffer\_size=480 local\_audio=1

create\_receiver: id=0 output\_samples=512 audio\_output\_buffer=0x21d4510

create\_receiver: id=0 after restore adc=0

create\_receiver: OpenChannel id=0 buffer\_size=1024 fft\_size=2048 sample\_rate=96000

create\_visual: id=0 width=1024 height=180 0x21cd1a8

create\_visual: panadapter height=90 y=0 0x21cda40

create\_visuals: waterfall height=90 y=90 0x21cdb08

create\_receiver: rx=0x205ee50 id=0 local\_audio=1

audio\_open\_output: allocated local\_audio\_buffer 0x47b4a48 size 16384 bytes

create\_receiver: id=1 buffer\_size=1024 fft\_size=2048 pixels=1024 fps=10

create\_receiver: id=1 default adc=0

receiver\_restore\_state: id=1

create\_receiver (after restore): rx=0x207ba00 id=1 audio\_buffer\_size=480 local\_audio=0

create\_receiver: id=1 output\_samples=1024 audio\_output\_buffer=0x47bda60

create\_receiver: id=1 after restore adc=0

create\_receiver: OpenChannel id=1 buffer\_size=1024 fft\_size=2048 sample\_rate=48000

create\_visual: id=1 width=1024 height=180 0x21cd288

create\_visual: panadapter height=90 y=0 0x21cdbd0

create\_visuals: waterfall height=90 y=90 0x21cdc98

create\_receiver: rx=0x207ba00 id=1 local\_audio=0

create\_transmitter: id=8 buffer\_size=1024 mic\_sample\_rate=48000 mic\_dsp\_rate=48000 iq\_output\_rate=48000 output\_samples=1024 fps=10 width=1024 height=360

transmitter: allocate buffers: mic\_input\_buffer=1024 iq\_output\_buffer=1024 pixels=2048

transmitter: allocate buffers: mic\_input\_buffer=0x6d3bc00 iq\_output\_buffer=0x6d3fc08 pixels=0x6d43c10

create\_transmitter: OpenChannel id=8 buffer\_size=1024 fft\_size=2048 sample\_rate=48000 dspRate=48000 outputRate=48000

transmitter\_set\_ctcss: state=0 i=11 frequency=100.0

SetAnalyzer id=8 buffer\_size=1024 overlap=3392 pixels=2048

transmitter: create\_visual: id=8 width=1024 height=360

tx\_panadapter\_init: 1024 x 360

old\_protocol\_init: num\_hpsdr\_receivers=1

old\_protocol starting receive thread: buffer\_size=1024 output\_buffer\_size=0

binding UDP socket to 127.0.0.1:0

open\_udp\_socket: UDP socket established: 16 for 127.0.0.1:1024

receive\_thread: id=0x2150180

old\_protocol\_init: prime radio

metis\_restart

old\_protocol: receive\_thread

metis\_start\_stop: 1

zoompan\_init: width=1024 height=50

sliders\_init: width=1024 height=100

toolbar\_init: width=1024 height=30 button\_width=128

create\_visual: receivers=1 RECEIVERS=2

create\_visual: calling radio\_change\_receivers: receivers=2 r=1

radio\_change\_receivers: from 2 to 1

old\_protocol\_stop

metis\_start\_stop: 0

reconfigure\_radio: receivers=1

reconfigure\_receiver: waterfall set\_size\_request: width:1024 height:180

att\_type\_changed

reconfigure\_transmitter: width=1024 height=360

old\_protocol\_run

metis\_restart

metis\_start\_stop: 1

LAUNCHING RIGCTL!!

launch\_rigctl: mutex\_busy=0x93367d8

RIGCTL: Launch Serial port /dev/ttyACM0

rigctl\_server: starting server on port 19090

RIGCTL: Error 2 opening /dev/ttyACM0: No such file or directory

start\_radio: midi\_enabled=0 midi\_device\_name=(null)

Using client: 0

att\_type\_changed

**Radioberry Screen Shots IST 15:30 Hrs 08 Oct 2022**

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