- http://sdr.osmocom.org/trac/wiki/rtl-sdr
- http://rtl-entropy.org/

t=0xa0bcc18 [0, 0]

Contents: [Dobrica PavlinuÅ¡iÄ 's random unstructured stuff]

- Dobrica PavlinuÅ¡iÄ 's random unstructured stuff (calibration)
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- Dobrica PavlinuÅ¡iÄ 's random unstructured stuff (E4000+2832U USB DVB-T TV Receiver Stick)
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calibration

https://github.com/steve-m/kalibrate-rtl

```
dpavlin@nuc:/nuc/kalibrate-rtl$ ./src/kal -s GSM900
Found 1 device(s):
  0:  Terratec T Stick PLUS

Using device 0: Terratec T Stick PLUS
Found Elonics E4000 tuner
Exact sample rate is: 270833.002142 Hz
kal: Scanning for GSM-900 base stations.
GSM-900:
        chan: 53 (945.6MHz - 14.311kHz) power: 873627.18
        chan: 61 (947.2MHz - 14.203kHz) power: 5086424.19
        chan: 69 (948.8MHz - 14.217kHz) power: 925674.55
        chan: 82 (951.4MHz - 14.368kHz) power: 1267065.47
        chan: 89 (952.8MHz - 14.430kHz) power: 914349.18
        chan: 99 (954.8MHz - 14.352kHz) power: 902132.81
        chan: 105 (956.0MHz - 14.380kHz)        power: 990434.19
        chan: 108 (956.6MHz - 14.350kHz)        power: 2682914.97

dpavlin@nuc:/nuc/kalibrate-rtl$ ./src/kal -c 61
Found 1 device(s):
  0:  Terratec T Stick PLUS

Using device 0: Terratec T Stick PLUS
Found Elonics E4000 tuner
Exact sample rate is: 270833.002142 Hz
kal: Calculating clock frequency offset.
Using GSM-900 channel 61 (947.2MHz)
average         [min, max]      (range, stddev)
- 14.238kHz             [-14257, -14220]        (37, 8.682419)
overruns: 0
not found: 0
average absolute error: 15.032 ppm



dpavlin@nuc:/nuc/kalibrate-rtl$ ./src/kal -c 61
Found 2 device(s):
  0:  Generic RTL2832U OEM
  1:  Terratec T Stick PLUS

Using device 0: Generic RTL2832U OEM
Found Fitipower FC0012 tuner
```

```
Exact sample rate is: 270833.002142 Hz
kal: Calculating clock frequency offset.
Using GSM-900 channel 61 (947.2MHz)
average         [min, max]      (range, stddev)
- 36.021kHz             [-36032, -36011]        (21, 5.899949)
overruns: 0
not found: 0
average absolute error: 38.028 ppm
```

DVB-T Digital TV Receiver USB Dongle w/ FM / Remote Control / Antenna - Black

http://dx.com/p/dvb-t-digital-tv-receiver-usb-dongle-w-fm-remote-control-antenna-black-149928

```
dpavlin@blue:~$ lsusb | grep DVB
Bus 001 Device 007: ID 0bda:2838 Realtek Semiconductor Corp. RTL2838 DVB-T

dpavlin@blue:~$ sudo rtl_test -t
[sudo] password for dpavlin:
Found 1 device(s):
  0:  ezcap USB 2.0 DVB-T/DAB/FM dongle

Using device 0: ezcap USB 2.0 DVB-T/DAB/FM dongle
Found Rafael Micro R820T tuner
Supported gain values (29): 0.0 0.9 1.4 2.7 3.7 7.7 8.7 12.5 14.4 15.7 16.6 19.7 20.7 22.9 25.4 2
No E4000 tuner found, aborting.


dpavlin@blue:/blue/rtl-sdr/rtl-sdr/build$ sudo rtl_tcp
Found 1 device(s).
Found Rafael Micro R820T tuner
Using ezcap USB 2.0 DVB-T/DAB/FM dongle
Tuned to 100000000 Hz.
listening...
Use the device argument 'rtl_tcp=127.0.0.1:1234' in OsmoSDR (gr-osmosdr) source
to receive samples in GRC and control rtl_tcp parameters (frequency, gain, ...).
```

E4000+2832U USB DVB-T TV Receiver Stick

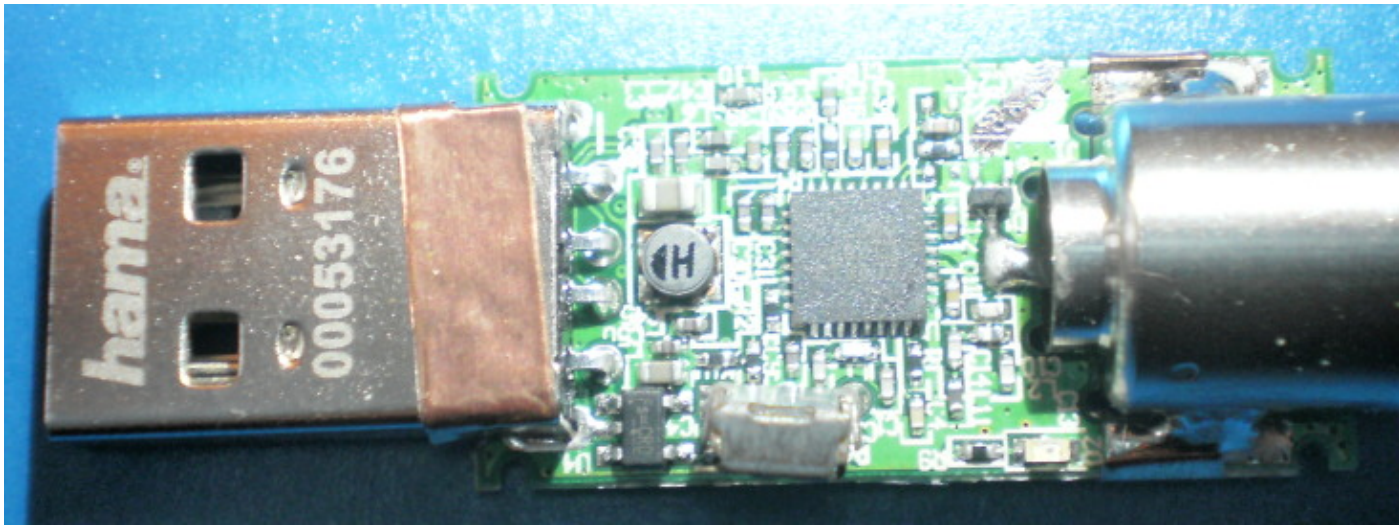
http://dx.com/p/e4000-2832u-usb-dvb-t-tv-receiver-stick-white-black-172105

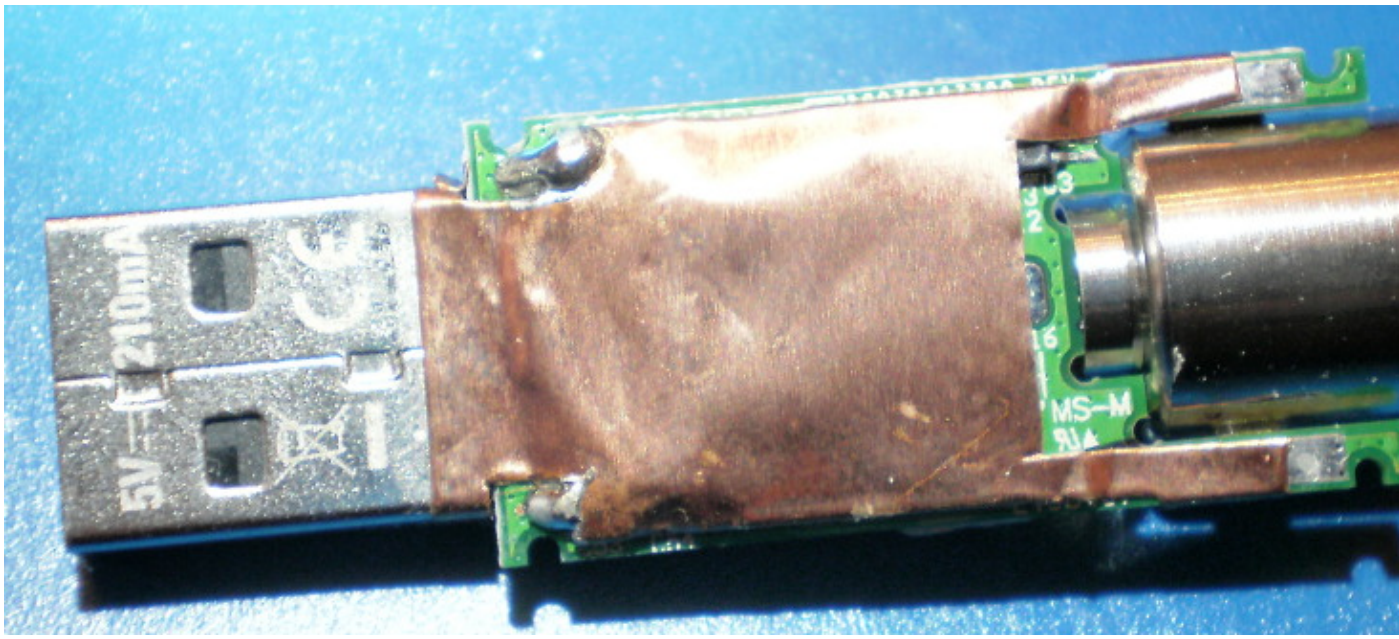
```
dpavlin@blue:~$ rtl_test -t
Found 1 device(s):
  0:  Terratec T Stick PLUS

Using device 0: Terratec T Stick PLUS
Found Elonics E4000 tuner
Supported gain values (14): -1.0 1.5 4.0 6.5 9.0 11.5 14.0 16.5 19.0 21.5 24.0 29.0 34.0 42.0
Benchmarking E4000 PLL...
[E4K] PLL not locked for 52000000 Hz!
[E4K] PLL not locked for 2227000000 Hz!
[E4K] PLL not locked for 1114000000 Hz!
[E4K] PLL not locked for 1274000000 Hz!
E4K range: 53 to 2226 MHz
```

Hama 53176

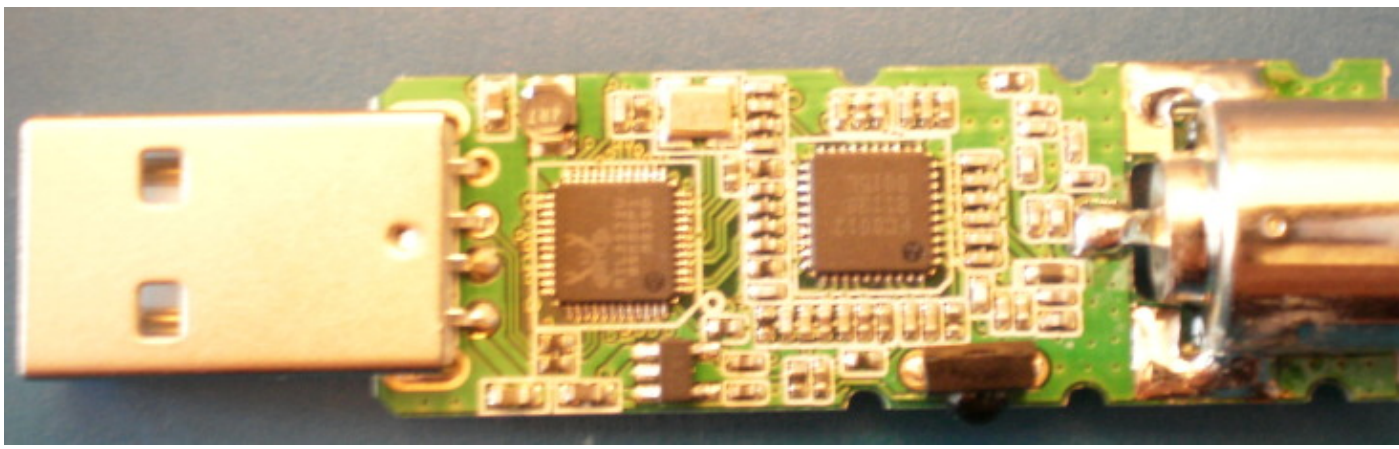
- FC0013 tuner

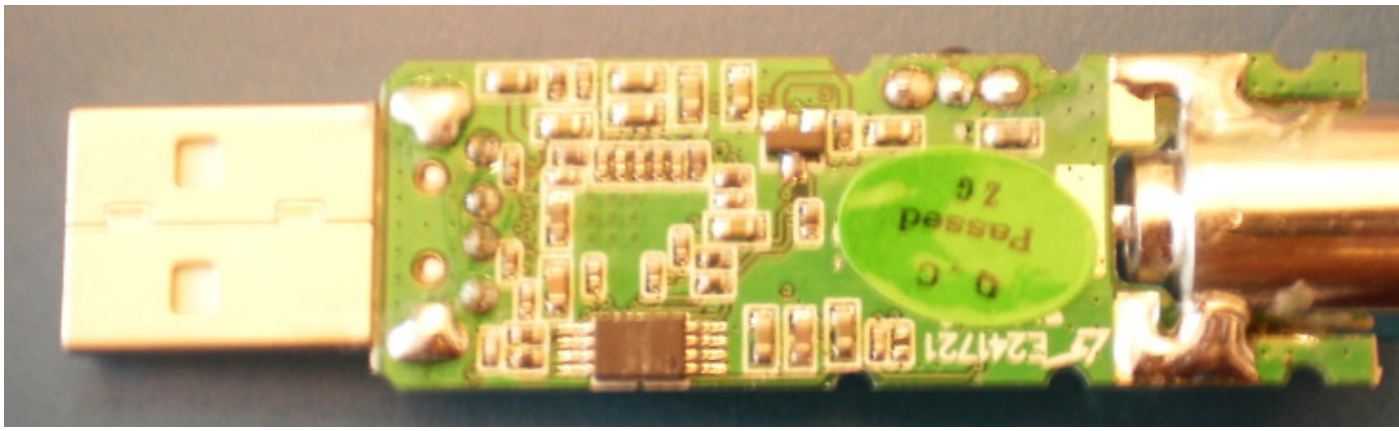




TV LV5TDLX

- FC0012 tuner




Passed
E241721