ZR6AIC

Radio Amateur web site ZR6AIC
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Thursday, December 20, 2018

Testing the Lime mini SDR with Gnuradio

lime_mini

This repository will have all my Lime mini configurations.
https://github.com/antonjan/lime_mini

Installing soapysdr on ubuntu 18.10

sudo apt-get install python3-pip python3-pyqt5 python3-numpy python3-scipy soapysdr python3-soapysdr #packages for soapysdr available at myriadrf PPA
/usr/share/doc/soapysdr-tools
cd /usr/share/doc/soapysdr-tools/ sudo add-apt-repository -y ppa:myriadrf/drivers
sudo apt-get update
sudo apt-get install limesuite liblimesuite-dev limesuite-udev limesuite-images
sudo apt-get install soapysdr-tools soapysdr-module-lms7
sudo apt-get install soapysdr
LimeUtil --info
SoapySDRUtil --info
SoapySDRUtil --find="driver=lime"

Testing the Lime Mini

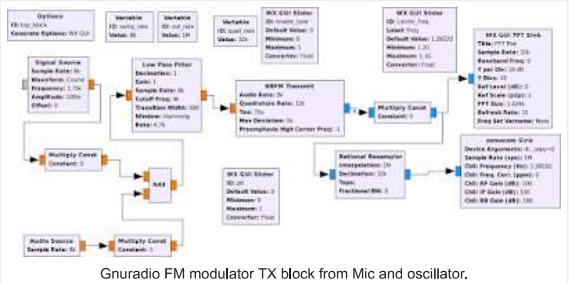
LimeUtil --info
LimeUtil --find
SoapySDRUtil --info
SoapySDRUtil --find="driver=lime"
#testing
cd /home/anton/lime-tools/build
sudo ./LimeMon
sudo ./LimeScan
/usr/bin/LimeQuickTest
/usr/bin/LimeSuiteGUI
/usr/bin/LimeUtil
#LimeQuickTest

LimeQuickTest --no-gui
LimeQuickTest --gui
#testing lime
https://wiki.myriadrf.org/Testing_the_LimeSDR

LimeSuiteGUI
https://wiki.myriadrf.org/LimeSDR-USB_Quick_Test

Testing the transmitter in Gnuradio.

Link to block source
https://github.com/antonjan/lime_mini/blob/master/gnuradio/Lime_transmitter_test_zr6aic.grc
Here is a Gnuradio block that will modulate the Lime mini sdr with Fm from Microphone and 1 Khz zone.
In the gnuradio radio directory is a working Transmitter testing code.



Gnuradio FM modulator TX block from Mic and oscillator.

Here is the settings for the Lime mini. (you need to install the soapySDR drivers.

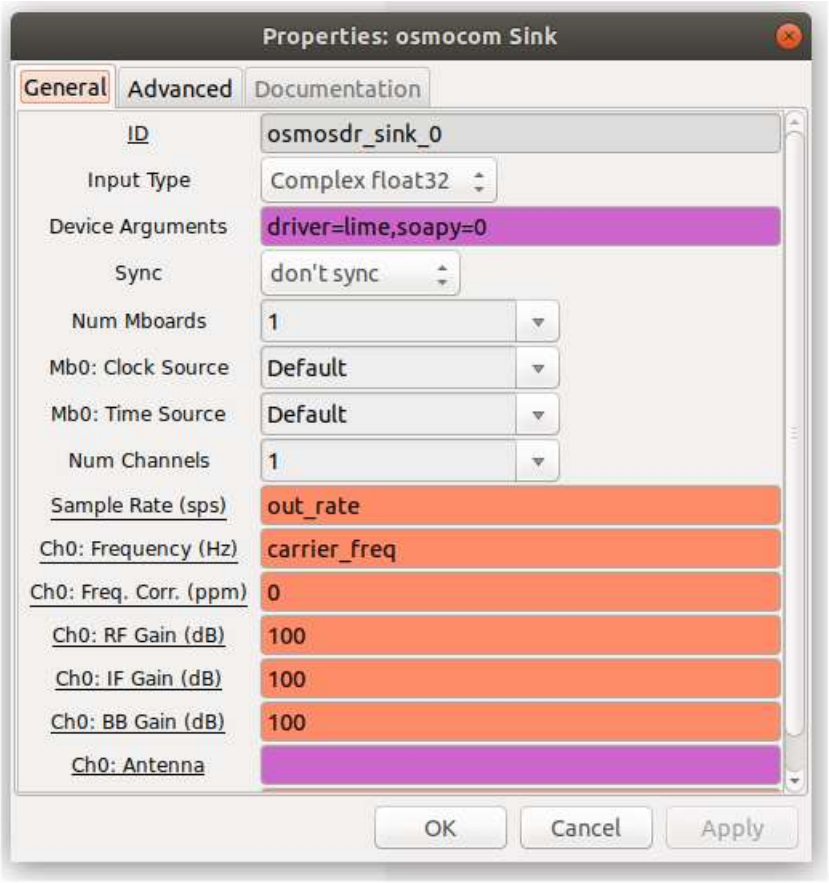
What computer operating system do you prefer in your Amateur Station?

If you could get a QRP Raspberry Pi add on board to transmit on HF Band,which Band would you selec?

What band would you select for Cubesat transponder downlink frequency?

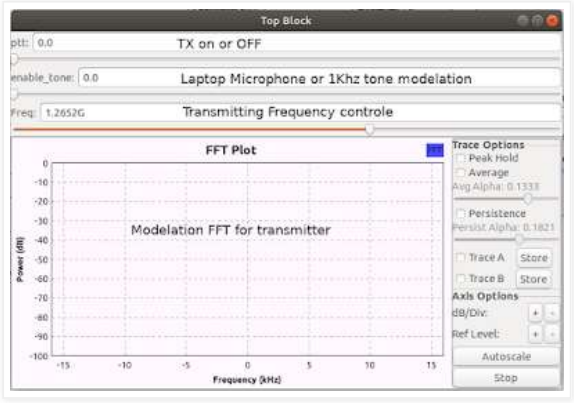
What band would you select for Cubesat transponder uplink frequency?

What is your favourite LEO Satellite telemetry modes?



Settings for soapy driver for lime

Screenshot of Application
Changing the PTT value to 1 enables modulation.
Changing the enable tone to value 1 will switch the modulation from internal Microphone of laptop to the 1Khz tone generator.
The Modulation can be seen in the FFT Plot box.



Transmitting DATV for Ei'hail 2
https://www.dd1us.de/Downloads/DATV%20TX%20with%20the%20LimeSDR%20rev1.pdf

Posted by ZR6AIC at 11:44 AM

Labels: #lime, fm, gnuradio, limesdr, mini, modulator, SDR, soapy, soapysdr, transmitter, ZR6AIC

1 comment:

Unknown December 17, 2019 at 7:05 PM

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Reply

What is your favorite band?

What is your favorite HF Band ?

Labels

- .asoundrc (1)
- #lime (1)
- 0 to 50 db (1)
- 0-30Mhz (1)
- 0.05-85 MHZ (1)
- 10.184 Mhz (3)
- 100Khz to 1.7Ghz (1)
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- 32bit (2)
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- 3D (1)

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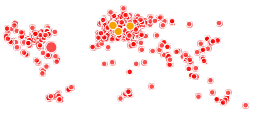

My Links

- AM radio stations in South Africa
- APRS Weather in South of Johannesburg
- FM radio stations in South Africa
- HF Web SDR in Johannesburg, South Africa
- My new HF KiwiSDR
- Namibia Amateur Radio League (NARL)
- Old HF webSDR in Johannesburg, South Africa
- Satellite webSDR in South Africa
- South African Radio Amateur Repeaters on Google maps
- Southern African Amateur Radio Satellite Association
- The South African Radio League
- webSDR Index

Local Clubs

- Bloemfontein Amateur Radio Club
- Border Radio Club
- Cape Town Amateur Radio Club
- Durban Amateur radio Club
- East Rand Branch
- Highveld Amateur Radio Club
- Highway Amateur Radio Club
- Kemptom Park Amateur Radio Technical Society
- Midlands Amateur Radio Club
- North West Amateur Radio Club
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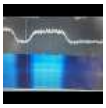
Setting up my Raspberry Pi as a SDR Server with RTL-2832U USB dongle. (Android details also) Raspberry Pi RTL-2832U Here i...

Building my Eggbeater II Omni LEO Antennas

Building my Eggbeater II Omni low Earth orbit satellite Antennas for 70cm and 2M. 70cm Egg Beater I only had vertical 5/8 ground...

Bacar Balloon launch of AFICube at Trichardt on 12 October 2019



Setting up your DBV-S2 Decoder for QO-100 (Eshail-2) on Linux

Setting up your DBV-S2 Decoder for QO-100 (Eshail-2) on Linux. I wanted to decode DBV-S2 signals on my Ubuntu Linux and here is my instill...

How to Setup GOIP 1/4/8 (GSM VOIP Gateway) as a Trunk gateway for Asterisk (PABX system)

How to Setup GOIP 1/4/8/16 .. as a Trunk gateway for Asterisk (PABX system) The GOIP (VOIP) routers is available from http://www.giga.co.za...

Creating a 2m Fm Repeater with a Raspberry Pi (B) and a RTL dongle.

Creating a 2m Fm Repeater with a Raspberry Pi (B) and a RTL dongle. (Don't use this application without the RF filter) RTL dongles i...

Eshail-2 QA-100 CW and SSB transmitter using My Rpitx Board and Mixer with LO Boards

Eshail-2 QA-100 CW and SSB transmitter using My rpitx Board and Mixer with LO Boards. PI TX HAT sends SSB to Upconverter mix and it is m...

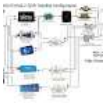
How to setup your NWT Spectrum Analyzer on Linux. (Ubuntu)

How to setup your NWT Spectrum Analyzer on Linux. (Ubuntu). This Spectrum analyzer is available from http://www.giga.co.za/ocart/index....

How to install SDR# SDRsharp on Windows

How to install SDR# SDRsharp on Windows Please note you need the Zadig driver for the RTL dongle to work. Goto this url to down...

QO-100 (Eshail-2) Satellite transceiver options.



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