

Options

Output Language: Python

Generate Options: QT GUI

Variable

Id: samp_rate

Value: 48k

QT GUI Tab Widget

Id: RXTXTabs

Num Tabs: 2

Label 0: Receiver

Label 1: Transmitter

Variable

Id: TXScale

Value: 600m

Audio Source

Sample Rate: 48k

Device Name: hw:Ra...tCodec,1

Note

Note: HEADSET / ALSA DEFAULT

Audio Source

Sample Rate: 48k

Signal Source

Sample Rate: 48k

Signal Source

Sample Rate: 48k

Signal Source

Sample Rate: 48k

Waveform: Cosine

Frequency: 700

Amplitude: 0

Offset: 0

Initial Phase (Radians): 0

QT GUI Range

Id: ToneFreq

Label: Freq 0

Default Value: 700

Start: 10

Stop: 10k

Step: 10

QT GUI Range

Id: ToneLevel

Label: Level 0

Default Value: 250m

Start: 0

Stop: 1

Step: 10m

QT GUI Check Box

Id: TXTone

Label: Tone 0 to TX

Default Value: 0

True: 1

False: 0

QT GUI Range

Id: CWFreq

Label: CW Offset

Default Value: 700

Start: 10

Stop: 10k

Step: 10

QT GUI Range

Id: CWLevel

Label: CW Level

Default Value: 250m

Start: 0

Stop: 1

Step: 10m

QT GUI Range

Id: VFO

Label: VFO

Default Value: 7.074M

Start: 3.5k

Stop: 32M

Step: 100

QT GUI Range

Id: ToneFreq1

Label: Freq 1

Default Value: 1.9k

Start: 10

Stop: 10k

Step: 10

QT GUI Range

Id: ToneLevel1

Label: Level 1

Default Value: 250m

Start: 0

Stop: 1

Step: 10m

QT GUI Check Box

Id: TXTone1

Label: Tone 1 to TX

Default Value: 0

True: 1

False: 0

QT GUI Range

Id: txbalance

Label: balance

Default Value: 20m

Start: -1

Stop: 1

Step: 1m

QT GUI Check Box

Id: MuteMic

Label: Mute Mic

Default Value: 1

True: 1

False: 0

QT GUI Check Box

Id: ALSA

Label: ALSA

Default Value: 0

True: 1

False: 0

QT GUI Check Box

Id: LSB

Label: LSB

Default Value: 1

True: -1

False: 1

QT GUI Check Box

Id: CW

Label: CW

Default Value: 0

True: 1

False: 0

QT GUI Check Box

Id: PTT

Label: PTT

Default Value: 0

True: 1

False: 0

QT GUI Range

Id: ADCgain

Label: ADCgain

Default Value: 50

Start: 0

Stop: 100

Step: 1

QT GUI Range

Id: Gain

Label: Gain

Default Value: 2

Start: 30m

Stop: 5

Step: 50m

QT GUI Range

Id: Volume

Label: Volume

Default Value: 5

Start: 10m

Stop: 30

Step: 100m

QT GUI Range

Id: HPF

Label: Low pass

Default Value: 2.75k

Start: 900

Stop: 3k

Step: 50

QT GUI Range

Id: LPF

Label: High pass

Default Value: 50

Start: 50

Stop: 850

Step: 10

QT GUI Range

Id: rxbalance

Label: balance

Default Value: 30m

Start: -1

Stop: 1

Step: 1m

Float To Complex

Note

Note: Alsa CW Sidetone Bypass

QT GUI Frequency Sink

FFT Size: 1.024k

Center Frequency (Hz): 0

Bandwidth (Hz): 48k

Audio Sink

Sample Rate: 48 kHz

Multiply Const

Constant: 0

Multiply Const

Constant: 985m

Multiply Const

Constant: 1.015

ssb_demodulator

LSB_SWITCH: 1

SAMP_RATE: 48k

Band Pass Filter

Decimation: 1

Gain: 2

Sample Rate: 48k

Low Cutoff Freq: 50

High Cutoff Freq: 2.75k

Transition Width: 100

Window: Blackman

Beta: 6.76

AGC2

Attack Rate: 1m

Decay Rate: 10m

Reference: 1.7

Gain: 1

Max Gain: 5

Add

Audio Sink

Sample Rate: 48k

Device Name: hw:Ra...tCodec,0

Multiply Const

Constant: 1

Add

Add

Multiply Const

Constant: 0

QT GUI Time Sink

Number of Points: 512

Sample Rate: 48k

Autoscale: No

Add

Multiply Const

Constant: 600m

ssb modulator

LSB: 1

PTT: 0

SAMP_RATE: 48k

TXBALANCE: 20m

Null Source

Add Const

Constant: 0

Add Const

Constant: 0

QT GUI Number Sink

Autoscale: No

Average: 1

Graph Type: Vertical

Function Probe

Id: VSWR

Block ID: epy_block_0

Function Name: readVSWR

Poll Rate (Hz): 1

Function Probe

Id: Power

Block ID: epy_block_0

Function Name: readForward

Poll Rate (Hz): 1

Message Strobe

Message PMT: 50

Period (ms): 30

Message Strobe

Message PMT: 0

Period (ms): 50

Message Strobe

Message PMT: 0

Period (ms): 50

Message Strobe

Message PMT: 7074000

Period (ms): 10

libradiohat