

Options
Title: FH USB
Author: sv1bds
Output Language: Python
Generate Options: QT GUI

Variable
ID: samp_rate
Value: 1M

Variable
ID: ipaddress
Value: 10.2.83.5

Variable
ID: ratio
Value: 125

QT GUI Range
ID: i
Label: Index
Default Value: 5.12k
Start: 0
Stop: 10.239k
Step: 1

QT GUI Check Box
ID: fh
Label: FH
Default Value: False
True: True
False: False

Import
Import: np

Variable
ID: n
Value: 10.24k

PlutoSDR Source
IIO context URI: 10.2.83.5
LO Frequency: 743.25M
Sample Rate: 1M
Buffer size: 32.768k
Quadrature: True
RF DC Correction: True
BB DC Correction: True
Gain Mode (RX1): Manual
Manual Gain (RX1)(dB): 30
Filter Configuration: Auto
RF Bandwidth (Hz): 1M

Signal Source
Sample Rate: 1M
Waveform: Cosine
Frequency: 200
Amplitude: 1
Offset: 0
Initial Phase (Radians): 0

QT GUI Waterfall Sink
FFT Size: 2048
Center Frequency (Hz): 0
Bandwidth (Hz): 1M

QT GUI Waterfall Sink
FFT Size: 2048
Center Frequency (Hz): 0
Bandwidth (Hz): 8k

Rational Resampler
Interpolation: 1
Decimation: 125
Taps:
Fractional BW: 0

Virtual Sink
Stream ID: Rx IF

UHD: USRP Source
Sync: Unknown PPS
Mb0: Clock Source: External
Samp rate (Sps): 1M
Ch0: Center Freq (Hz): ...25M
Ch0: AGC: Default
Ch0: Gain Value: 35
Ch0: Antenna: RX2

VCO Generator
Fh: False

Repeat
Interpolation: 100
Vector Length: 10.24k

My Block
Index: 5.12k

Vector to Stream

VCO (complex)
Sample Rate: 1M
Sensitivity: 6.28319M
Amplitude: 1

Virtual Sink
Stream ID: Rx Lo

Virtual Source
Stream ID: Rx IF

Band Pass Filter
Decimation: 1
Gain: 100
Sample Rate: 8k
Low Cutoff Freq: 300
High Cutoff Freq: 3k
Transition Width: 100
Window: Hamming
Beta: 6.76

Complex To Real

Rational Resampler
Interpolation: 6
Decimation: 1
Taps:
Fractional BW: 0

Audio Sink
Sample Rate: 48 kHz

Wav File Sink
File: /home/sv1bds/fh.wav
Sample Rate: 48k
Output Format: WAV
Bits per Sample: 16-bit
Append to existing file: No

Probe Rate
Min Update Time (ms): 500
Update Alpha: 150m

Message Debug
PDU Vectors: On

