

Options

Title: 5Ghz Communication

Output Language: Python

Generate Options: QT GUI

Variable

ID: samp_rate

Value: 64k

Variable

ID: fc

Value: 8k

Import

Import: np

Variable

ID: N

Value: 4

Complexity: 577ubal

QT GUI Range

ID: delay_1

Label: Delay

Default Value: 75

Start: 0

Stop: 1k

Step: 1

Random Source

Minimum: 0

Maximum: 4

Num Samples: 1k

Repeat: Yes

Virtual Source

Stream ID: psk_bb

Signal Source

Sample Rate: 64k

Waveform: Cosine

Frequency: 8k

Amplitude: 1

Offset: 0

Initial Phase (Radians): 0

Signal Source

Sample Rate: 64k

Waveform: Cosine

Frequency: 8k

Amplitude: 1.414

Offset: 0

Initial Phase (Radians): 0

Signal Source

Sample Rate: 64k

Waveform: Sine

Frequency: 8k

Amplitude: -1.414

Offset: 0

Initial Phase (Radians): 0

in

set_symbol_table

Chunks to Symbols

Symbol Table: 1, 6...7e-16-1j

Dimension: 1

Throttle (old)

Sample Rate: 64k

Interpolating FIR Filter

Interpolation: 64

Taps: np.ones(samp_rate //...

Virtual Source

Stream ID: decoded_psk_bb

Delay

Delay: 75

Virtual Sink

Stream ID: psk_bb

QT GUI Time Sink

Name: Data Tx and Rx

Number of Points: 1.024k

Sample Rate: 64k

Autoscale: Yes

QT GUI Constellation Sink

Number of Points: 1.024k

Autoscale: Yes

QT GUI Time Sink

Name: Modulated

Number of Points: 1.024k

Sample Rate: 64k

Autoscale: Yes

Multiply

Complex To Real

Multiply

Low Pass Filter

Interpolation: 1

Gain: 1

Sample Rate: 64k

Cutoff Freq: 8k

Transition Width: 1k

Window: Hamming

Beta: 6.76

Multiply

Low Pass Filter

Interpolation: 1

Gain: 1

Sample Rate: 64k

Cutoff Freq: 8k

Transition Width: 1k

Window: Hamming

Beta: 6.76

Float To Complex

Virtual Sink

Stream ID: decoded_psk_bb