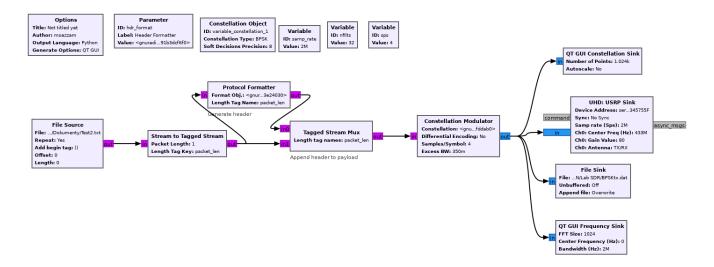
BPSK TX



ID hdr format

Label Header Formatter

Type None

value digital.header_format_default(digital.packet_utils.default_access_code, 0)

Constellation Object

ID variable_constellation_1
Constellation Type BPSK
Soft Decision Precision 8
Noise Power 1.0

Soft Decisions LUT None

Stream to Tagged Stream

Type Byte

Vector Length 1 Packet Length 1

Length Tag Key "packet_len"

Protocol Formatter

Format Obj. hdr_format Length Tag Name "packet_len"

Tagged Stream Mux

IO Type Byte **Number of inputs** 2

Length tag names "packet_len"

Vector Length 1

Constellation Modulator

Constellation variable_constellation_1

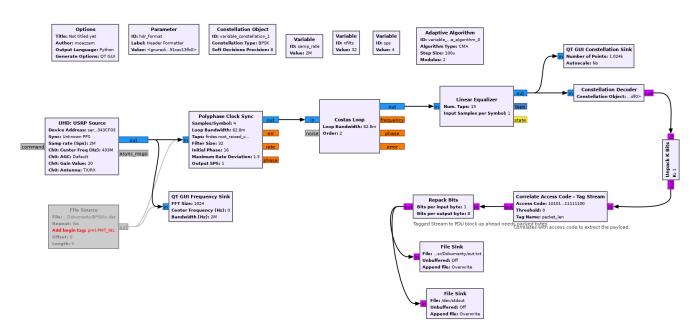
Differential Encoding No

Samples/Symbol 4

Excess BW 0.35 Verbose Off Log Off

Truncate Filter Transient No

BPSK RX



hdr format

value digital.header_format_default(digital.packet_utils.default_access_code, 0)

Constellation Object

ID variable_constellation_1
Constellation Type BPSK
Soft Decision Precision 8

Adaptive Algorithm

ID variable_adaptive_algorithm_0
Digital Constellation Object variable_constellation_1
Step Size 0.0001
Modulus 2

Polyphase Clock Sync

Type Complex → Complex Samples/Symbol 4
Loop Bandwith 0.0628

Taps firdes.root raised cosine(nfilts, nfilts, 1.0/float(sps), 0.35, 11*sps*nfilts)

Costas Loop

Loop bandwith 0.0628 Order 2

Use SNR Yes

Linear Equalizer

Num Taps 15

Input Samples per Symbol 1

Adaptive Algorithm Object variable_adaptive_algorithm_0

Adapt After Training 1

Constellation Decoder

Constellation Object variable constellation 1

Unpack K Bits

K 1

Correlate Access Code

IO Type Byte

Access Code digital.packet_utils.default_access_code

Threshold 0

Tag Name "packet_len"

Repack Bits

Bits per input byte 1

Bits per output byte 8

Length Tag Key "packet_len"

Packet Alignment Input

Endianness MSB