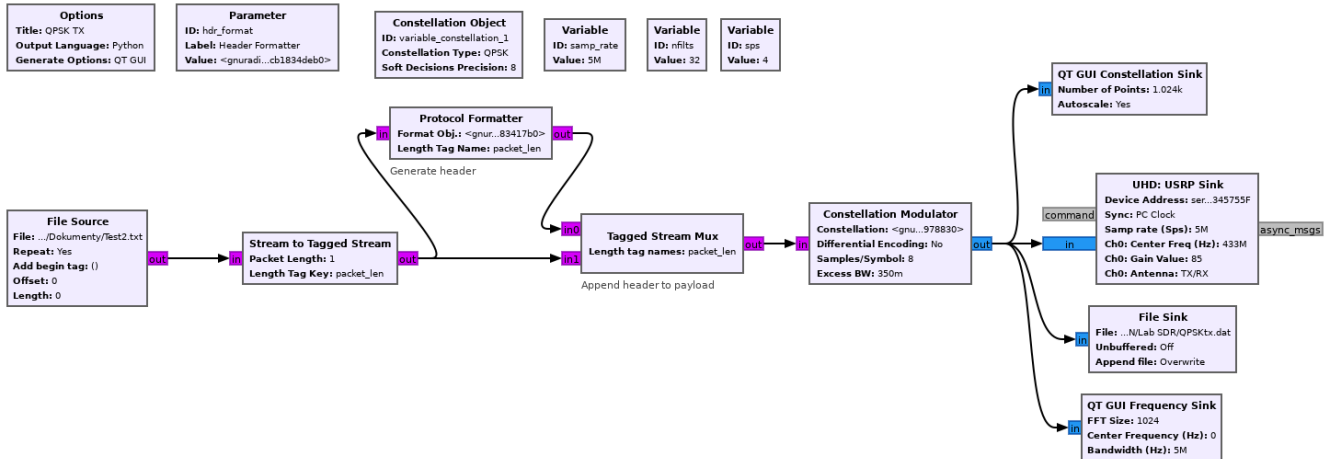


QPSK TX



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 QPSK

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 8

Excess BW 0.35

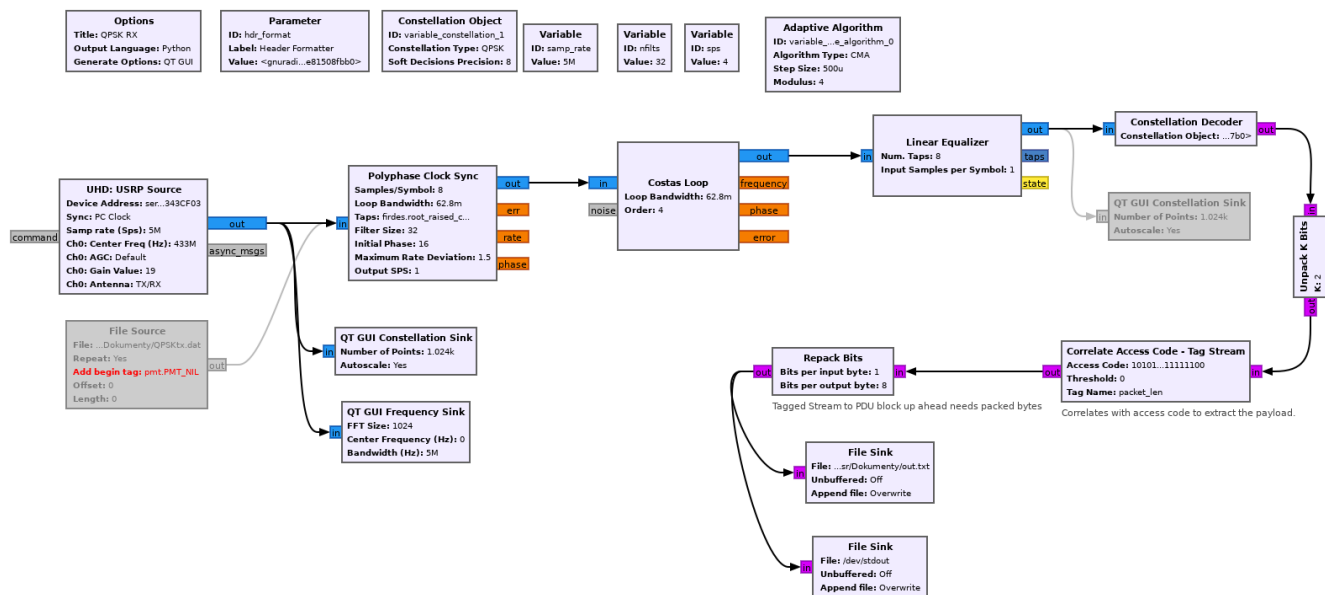
Verbose Off

Log Off

Truncate Filter Transient

No

QPSK RX



ID `hdr_format`

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

Constellation Object

ID `variable_constellation_1`

Constellation Type `QPSK`

Soft Decision Precision `8`

Adaptive Algorithm

ID `variable_adaptive_algorithm_0`

Digital Constellation Object `variable_constellation_1`

Step Size `0.0005`

Modulus `4`

Polyphase Clock Sync

Type `Complex → Complex`

Samples/Symbol `8`

Loop Bandwidth `0.0628`

Taps `firdes.root_raised_cosine(nfiltfs, nfiltfs, 1.0/float(sps), 0.35, 11*sps*nfiltfs)`

Costas Loop

Loop bandwidth 0.0628
Order 4
Use SNR Yes

Linear Equalizer

Num Taps 8
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 2

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