Variable Config Variable Config Variable Config **Variable Config Variable Config Variable Config Variable Config Variable Config Variable Config Variable Config** Id: sdr\_Freq\_Int Id: modulation Baud Rate Int Id: modulatio...nchester Bool Id: deframer G3RUH Bool Id: main\_Resu...le\_Prefix\_Str Id: sdr\_IF\_Gain\_Int Id: sdr BB Gain Int Id: modulation\_Type\_Int Id: modulatio...ub\_Audio\_Bool Default Value: 103.6M **Default Value:** 40 **Default Value:** 9.6k Default Value: False Default Value: ERROR\_PREFIX Default Value: False Default Value: 40 **Default Value:** 3 **Default Value:** False Type: String Type: Int Type: Int Type: Int Type: Int Type: Bool Type: Bool Type: Bool Config File: ...aster/default Section: main Section: sdr Section: sdr Section: sdr Section: modulation Section: modulation Section: modulation Section: modulation **Section:** deframer Option: main\_Re...File\_Prefix Option: sdr\_IF\_Gain Option: sdr\_BB\_Gain **Option:** modulation\_Type Option: modulation\_Baud\_Rate Option: modulat...K\_Sub\_Audio Option: modulat...\_Manchester Option: deframer\_G3RUH Option: sdr Freq WriteBack: None Variable **Variable Config** Variable Config Variable Config Variable Config Variable Config Variable Config Variable Config Receives an updated frequency Id: modulatio...amer\_Type\_Int Update from GSC through XMLRPC Id: fileNameRes Id: main\_LPF\_Cutoff\_Freq\_Int Id: sdr\_LNA\_Gain\_Int Id: modulatio...rier\_Freq\_Int Id: modulatio...Deviation Int Id: modulatio...erential Bool Id: deframer\_...t\_Frames\_Bool Default Value: -1.2k Value: ERROR PREFIX.dat **Default Value:** 470k **Default Value: 14 Default Value:** 3.6k **Default Value:** True **Default Value:** 6 **Default Value:** False Type: Int Type: Bool Type: Int Type: Int Type: Bool Type: Int Variable Config File: ...aster/default Section: modulation Id: fileNameRaw Section: main Section: sdr Section: modulation Section: modulation Section: modulation Section: deframer Value: ERROR\_PREFIX.raw Option: main\_LPF\_Cutoff\_Freq Option: modulat...arrier\_Freq Option: modulat...K\_Deviation Option: modulat...ifferentia **Option:** modulat...framer\_Type **Option:** deframer\_Short\_Frames **Option:** sdr\_LNA\_Gain WriteBack: None Note Note Note Note Note: SDR config Note: Modulation config **Note:** File names config **Note:** Deframing config Null Sink Selector Enabled: Enabled Selector Number of Inputs: File Sink Enabled: Enabled File: fileNameRaw Number of Outputs: Number of Inputs: 2 osmocom Source Input Index: 0 Unbuffered: Off Number of Outputs: 1 **Sync:** Unknown PPS Output Index: 1 Append file: Overwrite Input Index: 1 **Virtual Sink** Number Channels: 1 Output Index: 0 Low Pass Filter if modulation != FM Sample Rate (sps): 480k Stream ID: bpskRaw **Decimation:** 1 DC blocker bypass Ch0: Frequency (Hz): 103.6M 1 if modulation\_Type\_Int != 3 else 0 DC Blocker Gain: 1Selector Selector Ch0: Frequency Correction (ppm): 0 Sample Rate: 480k Enabled: Enabled Enabled: Enabled **Virtual Sink** Length: 32 Ch0: DC Offset Mode: 2 Cutoff Freq: 470k Number of Inputs: Stream ID: afskRaw Long Form: True Ch0: IQ Balance Mode: 2 **Transition Width: 3** Number of Outputs: **Number of Outputs:** Ch0: Gain Mode: False Window: Hamming nput Index: 0 Input Index: 0 **Ch0: RF Gain (dB):** 14 Virtual Sink Output Index: 3 **Beta:** 6.76 Output Index: 0 **Ch0: IF Gain (dB):** 40 Stream ID: fskRaw **Ch0: BB Gain (dB):** 40 (modulation != FM) ? 10 : 1 For debugging purposes Modulation **Virtual Sink** Stream ID: analogFM **Wav File Source** File: ...ecordings/gomx\_1.wav Float To Complex Repeat: Yes Null Source Virtual Source Stream ID: debug **AO-40 FEC Deframer** Syncword threshold: 4 **Use short frames (SMOG-P):** False Use CRC-16 ARC: False **BPSK Demodulator UDP Sink Baudrate:** 9.6k **Destination IP Address:** 127.0.0....0.1 **GOMspace U482C Deframer** Virtual Source PDU to Tagged Stream Sample rate: 48k Destination Port: 8.08k Stream ID: bpskRaw Syncword threshold: 4 Frequency offset (Hz): 11kLength tag name: data Payload Size: 1.472k

> **AX.25 Deframer G3RUH scrambling:** False

**FOSSASAT Deframer** 

Syncword threshold: 4

Syncword threshold: 4

Mode: ASM+Golay

**Scrambler:** CCSDS

**Wav File Sink** 

File: fileNameRes

Sample Rate: 48k

Bits per Sample: 16

Syncword threshold: 4

**GOMspace AX100 Deframer** 

**GOMspace AX100 Deframer** 

Options

**Title:** Leanspace + GNU Radio

Output Language: Python

**Generate Options:** No GUI

**Run Options:** Prompt for Exit

Variable

Id: sampRate

**Port:** 7.777k

**XMLRPC Server** 

Address: localhost

Doppler compensation

Value: 480k Value: 11k

Variable

Id: freqOffset

**Differential:** True

Manchester: False

Virtual Source

Stream ID: afskRaw

Virtual Source

Stream ID: fskRaw

**Virtual Source** 

Stream ID: analogFM

**AFSK Demodulator** 

**FSK Demodulator** 

Baudrate: 9.6k

Sample rate: 48k

Subaudio: False

FM Demod

**Channel Rate:** 480k

Audio Decimation: 10

**Deviation:** 17k

Audio Pass: 2.4k

Audio Stop: 3.4k

Gain: 1

**Tau:** 75u

Baudrate: 9.6k

Sample rate: 48k

**AF carrier:** 3.6k

**Deviation:** -1.2k

Selector

Enabled: Enabled

Input Index: 3

Output Index: 6

Number of Inputs: 4

**Number of Outputs:** 

Id: deframer CRC16 Book Id: main\_Netw...m\_Address\_Str **Default Value:** False **Default Value:** 127.0.0.1 Type: Bool Type: String Config File: ...aster/default **Config File:** ...aster/default **Section:** deframer Section: main **Option:** deframer\_CRC16 Option: main Ne...eam Address WriteBack: None WriteBack: None Variable Config Id: deframer\_...Threshold\_Int **Default Value:** 4 Type: Int

**Message Debug** 

⊪-----**⊳**|

Send Null Pkt as EOF: True

File Sink

Append file: Overwrite

File: fileNameRes

Unbuffered: Off

**Virtual Sink** 

Stream ID: debug

**Default Value:** 8.08k

Variable Config

Type: Int Config File: ...aster/default Section: main **Option:** main\_Ne...Stream\_Port WriteBack: None

**Variable Config** 

Id: main Netw...ream Port Int

**Section:** deframer WriteBack: None

Config File: ...aster/default **Option:** deframe...d Threshold

> Note Note: Network config