

# Introduction to SDR: GNURadio and USRPs

python file

click build

generate python file

gui

split into two

second one more about SDR

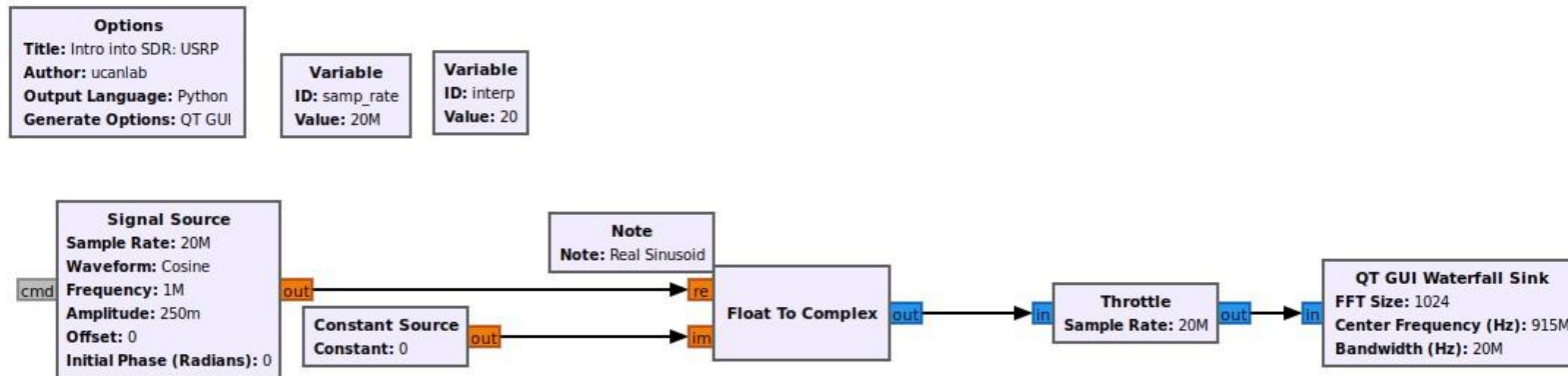
# Objectives

- Use GNURadio for a simple TX/RX setup with Ettus B200 mini USRPs.
- Flowgraph creation and throttle blocks for simulations.
- Learn how to use Linux terminal to get USRP Serial Address via UHD find devices.
- Learn how use USRP's in a GNU Radio Flowgraph.

# Key Points

- UHD:USRP Sink allows us to send intended signal into USRPs.
- UHD:USRP Source allows to retrieve intended signal from USRPs.
- Signal Source defines the configuration and start of the intended signal.
- QT Waterfall Sink allows to visualize the received signal for both USRP signal retrieval and simulation signal retrieval.
- Command: `uhd_find_devices` [For usrp serial id] in the Linux terminal allows us to receive our USRPs serial address for usage in both

# Flowgraph 1A



# Flowgraph 1B

