

GNU Radio Installation Manual

Wadhwani Electronics Lab

July 2024

1 Pre-requisites

1. Laptop with Ubuntu 20.04 LTS or above.

2 Installation Steps

1. On the terminal, type the following commands:
 - 1) `sudo apt-get upgrade`
 - 2) `sudo add-apt-repository ppa:gnuradio/gnuradio-releases-3.9`
 - 3) `sudo apt-get update`
 - 4) `sudo apt-get install gnuradio python3-packaging`
2. It is recommended to install GNU version 3.9 and above.
3. The installation may take approximately 3-5 minutes.

3 Run GNU Radio

1. To run GNU Radio, open the terminal and type in `gnuradio-companion`.
2. For 20.04 users, you will get stable 3.9.5 version of GNU Radio.

If faced any issue regarding dependencies while installing or running GNU-Radio, refer to the following document: [Ubuntu Install](#)

4 Installation of RTL-SDR on Ubuntu

On the terminal type the following commands:

1. `sudo apt install rtl-sdr`
2. `sudo apt install gr-osmosdr`

Then open GNU-Radio and in search section check whether `rtl-sdr` option is showing up or not.

If an error occurs while installing `rtl-sdr` go through the following document: [Error Resolving](#)