

Tutorial 1 – Installing Ubuntu 10.04 and Gnuradio UHD

1. Install Ubuntu 10.04 Lucid

2. Open terminal

#Install the dependencies for GNU Radio on Ubuntu 10.04:

```
sudo apt-get -y install libfontconfig1-dev libxrender-dev libpulse-dev swig
g++ automake autoconf libtool python-dev libfftw3-dev \
libcppunit-dev libboost-all-dev libusb-dev fort77 sdcc sdcc-libraries \
libsdl1.2-dev python-wxgtk2.8 git-core guile-1.8-dev \
libqt4-dev python-numpy ccache python-opengl libgsl0-dev \
python-cheetah python-lxml doxygen qt4-dev-tools \
libqwt5-qt4-dev libqwtplot3d-qt4-dev pyqt4-dev-tools python-qwt5-qt4
```

3. #Install git and cmake:

```
sudo apt-get install git-core cmake
```

4. #Download and install UHD from git:

```
git clone git://code.ettus.com/ettus/uhd.git
cd uhd/host
mkdir build
cd build
cmake ../
make
make test
sudo make install
#Check where your path is with "find |grep libuhd"
export LD_LIBRARY_PATH=$LD_LIBRARY_PATH:/usr/local/lib
```

5. #Download and install GNU Radio from git:

```
git clone http://gnuradio.org/git/gnuradio.git
cd gnuradio
git branch --track next origin/next
git checkout next
git branch #Checks if you have correct path
export PKG_CONFIG_PATH=/usr/local/lib/pkgconfig:${PKG_CONFIG_PATH}
./bootstrap
./configure --enable-gr-uhd
make
make check
sudo make install
```

6. #If you cannot find the device, perform these commands.

```
Sudo ldconfig
Sudo ifconfig eth# 192.168.10.1
```