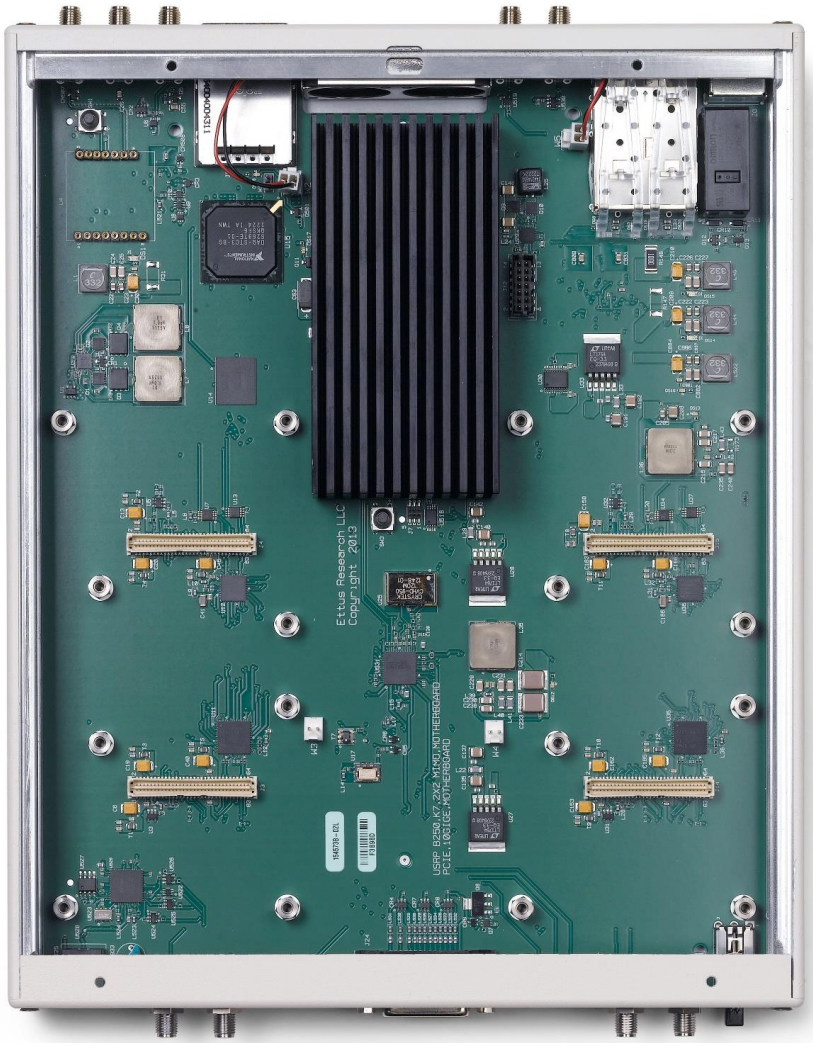
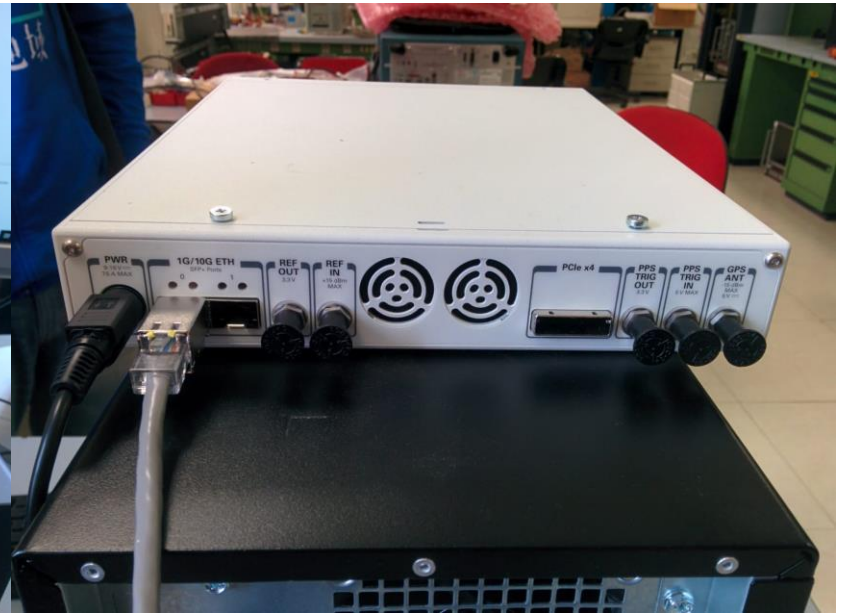
Ettus Research™
A National Instruments Brand

# USRP X310

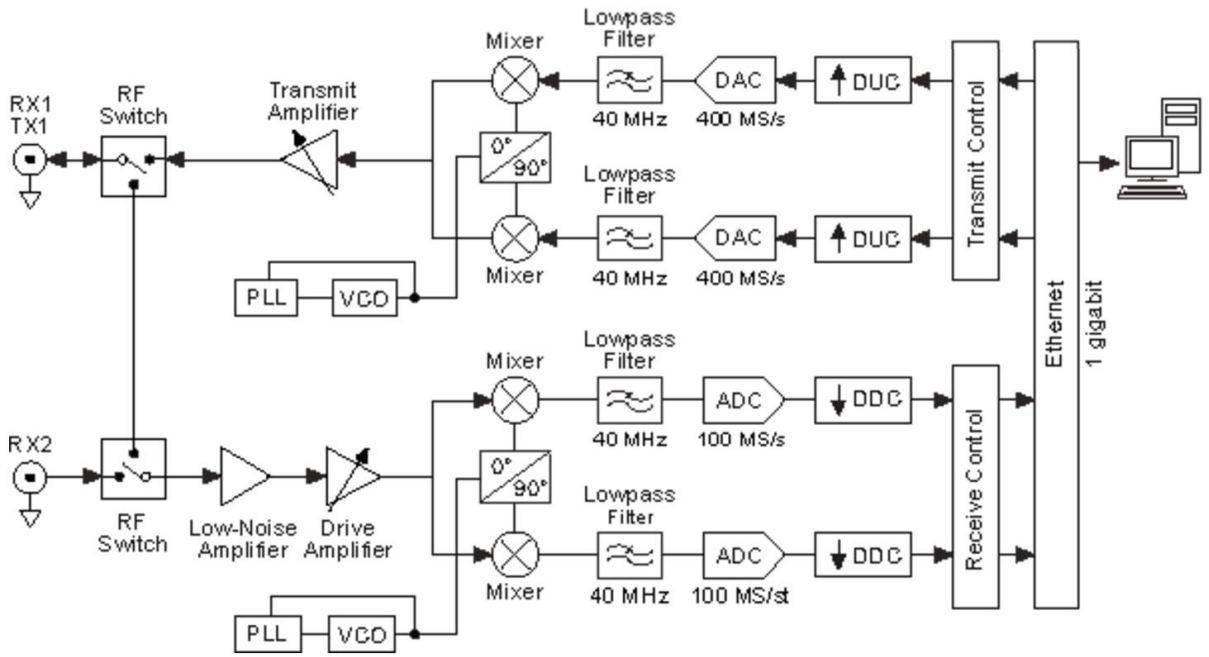
high-performance, scalable
software defined radio



# Setup sperimentale





# Istallazione

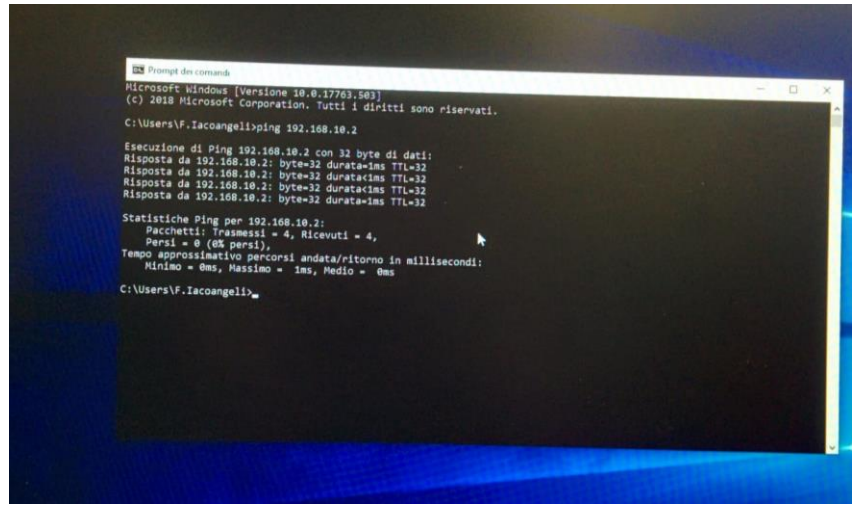
- Microsoft Windows (7, 8, 8.1, 10)
- UHD library
- GNU Radio opensource software
- Microsoft Visual Studio (2013, 2015, 2017)
- CMake (2.8.0 or later)
- Boost (1.53 or later)
- LibUSB (1.0 or later)
- Python (2.7.x)
- Mako (0.5.0 or later)
- Doxygen (1.8 or later, optional)
- NSIS (2.50 or later, optional)
- 7zip (http://www.7-zip.org/download.html)
- msysGit (https://gitforwindows.org/)

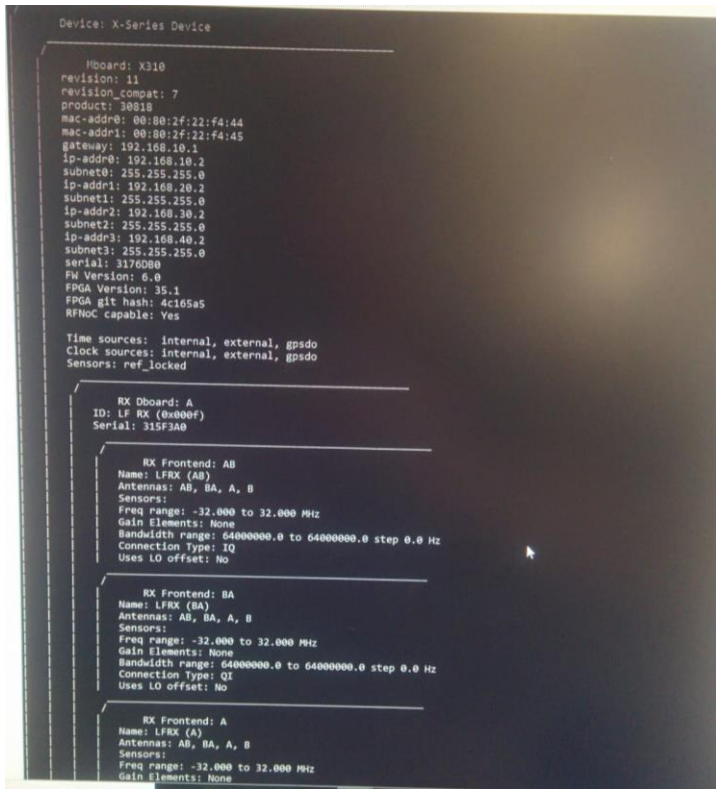
# Bulding

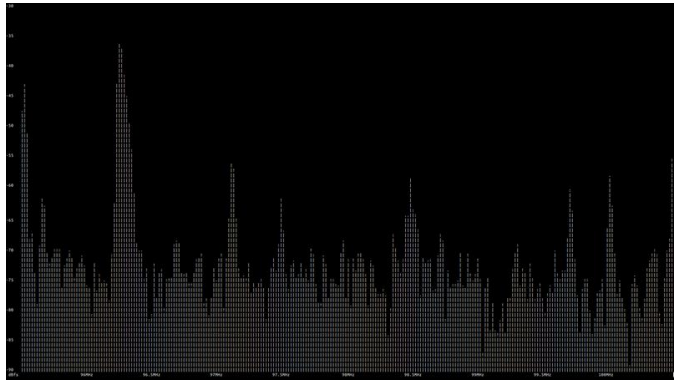
- Compilato UHD con Open Visual Studio 2017 and open the UHD project file generated by CMake.
- Scaricato firmware FPGA e caricato sull'hardware (non grazie alla rete Ethernet del lab

# Comunicazione driver

- Ping
- uhd_find_device -> la libreria usb funziona
- uhd_ursp_probe -> siamo ingrado di creare piccoli programmi e lanciarli tramite python da terminale



# Gnu Radio

- Abbiamo istallato GNU Radio, programma opensource per elaborare il segnale con un linguaggio visuale a blocchi
- Attualmente ancora non riesce a comunicare bene con USRP x310 per un problema di upgrade tra firmware dell'FPGA e versione driver di
- Probabile soluzione con l'upgrade UHD or downgrade the FPGA image