

X310 Getting Started

ADD - <https://www.ettus.com/kb/detail/usrp-x300x310-getting-started-guide-1-page>

Getting started X300/X310

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- USRP X300/X310
- 1 Gigabit Ethernet Cable
- SFP Adapter for 1 GigE
- Power Supply and US Cord
- USB 2.0 JTAG Debug Cable
- Four SMA-Bulkhead Cables
- Getting Started Guide

Make sure that your kit contains all the items listed above. If any items are missing, please contact your sales agent or Ettus Research Technical support immediately.

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All Ettus Research products are individually tested before shipment. The USRP? is guaranteed to be functional at the time it is received by the customer. Improper use or handling of the USRP? can easily cause the device to become non-functional. Listed below are some examples of actions which can prevent damage to the unit:

- Never allow metal objects to touch the circuit board while powered.
- Always properly terminate the transmit port with an antenna or 50? load.
- Always handle the board with proper anti-static methods.
- Never allow the board to directly or indirectly come into contact with any voltage spikes.
- Never allow any water, or condensing moisture, to come into contact with the boards.
- Always use caution with FPGA, firmware, or software modifications.

In order to use your Universal Software Radio Peripheral (USRP?), you must have the software tools correctly installed and configured on your host computer. A step-by-step guide for doing this is available at the [Basic Installation Instructions](#) Application Note. Release 3.8.4 or later of the USRP Hardware Driver, UHD, is required. It is recommended to use the latest stable version of UHD that is available.

If you have a USB stick with the LiveUSB SDR Environment installed on it, then you may boot your host computer from that. The LiveUSB SDR Environment does not require anything to be installed on your host computer, and contains a Linux-based environment with the UHD software and the GNU Radio framework already installed. More information about the LiveUSB SDR environment is available at the [Live SDR Environment Getting Started](#) page.

This USRP X300/X310 supports multiple, high-speed, low-latency interface options. This kit includes all of the components necessary to communicate with the device through a 1 Gigabit Ethernet interface. To setup the device, follow these basic instructions:

- Configure the host Ethernet adapter to use an IP address of "192.168.10.1" and a subnet mask of "255.255.255.0".
- Slide the SFP Adapter into the SFP "Port 0".
- Using the supplied Ethernet cable, connect the adapter to a host computer.
- The Green Led above SFP "Port 0" should illuminate.
- To test communications, ping the USRP device at address "192.168.10.2"

For more detailed on network setup, please see: <http://interfaces.ettus.com>

The USRP X300/X310 also supports 10 Gigabit Ethernet and PCI-Express. To use these interfaces, we recommend our high-speed interface kits. For more information about these interface kits, please visit: <http://interfaces.ettus.com>

The USRP X300/X310 and compatible RF daughterboards are shipped separately. To operate the device you will need to install the RF daughterboards and supplied bulkhead cables. This can be accomplished by removing the top plate of the USRP X300/X310, which is secured with two screws. After installation, the daughterboards and cables should be secured with the hardware provided. The device must be powered off when installing daughterboards to avoid potential damage.

Technical support for USRP hardware is available through email only. If the product arrived in a non-functional state or you require technical assistance, please contact support@ettus.com. Please allow 24 to 48 hours for response by email, depending on holidays and weekends, although we are often able to reply more quickly than that.

We also recommend that you subscribe to the community mailing lists. The mailing lists have a responsive and knowledgeable community of hundreds of developers and technical users who are located around the world. When you join the community, you will be connected to this group of people who can help you learn about SDR and respond to your technical and specific questions. Often your question can be answered quickly on the mailing lists. Each mailing list also provides an archive of all past conversations and discussions going back many years. Your question or problem may have already been addressed before, and a relevant or helpful solution may already exist in the archive.

Discussions involving the USRP hardware and the UHD software itself are best addressed through the [u?srp--users ?mailing list](http://usrp-users.ettus.com/) at <http://usrp-users.ettus.com/>.

Discussions involving the use of GNU Radio with USRP hardware and UHD software are best addressed through the [d?iscuss-gnuradio?mailing list](https://lists.gnu.org/mailman/listinfo/discuss-gnuradio?) at <https://lists.gnu.org/mailman/listinfo/discuss-gnuradio?>.

Discussions involving the use of OpenBTS® with USRP hardware and UHD software are best addressed through the [o?penbts-discuss?mailing list](https://lists.sourceforge.net/lists/listinfo/openbts-discuss?) at [https://lists.sourceforge.net/lists/listinfo/openbts-discuss?.](https://lists.sourceforge.net/lists/listinfo/openbts-discuss?)

The support page on our website is located at [h?tp://www.ettus.com/support?](http://www.ettus.com/support?). The Knowledge Base is located at [?http://www.ettus.com/kb?](http://www.ettus.com/kb?).

Every country has laws governing the transmission and reception of radio signals. Users are solely responsible for insuring they use their USRP system in compliance with all applicable laws and regulations. Before attempting to transmit and/or receive on any frequency, we recommend that you determine what licenses may be required and what restrictions may apply.

- NOTE: This USRP product is a piece of test equipment.

If you have any non-technical questions related to your order, then please contact us by email at [orders@ettus.com?](mailto:orders@ettus.com), or by phone at +1-408-610-6399 (Monday-Friday, 8 AM 5 PM, Pacific Time). Please be sure to include your order number and the serial number of your USRP.

Terms and conditions of sale can be accessed online at the following link: <http://www.ettus.com/legal/terms-and-conditions-of-sale>