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Please note that this product is now End-of-Life (EOL), and is no longer available for sale through Ettus Research, and is not recommended for use in new designs or in new projects.

- 50 MHz of RF bandwidth with 8 bit samples25 MHz of RF bandwidth with 16 bit samples
- · Gigabit Ethernet connectivity
- MIMO capable requires two or more USRP2 devices as motherboard has one daughterboard slot (1 RX + 1 TX connectors)
   Onboard FPGA processing
- FPGA: Xilinx Spartan XC3S2000
- ADCs: 14-bits 100 MS/s
   DACs: 16-bits 400 MS/s
- Ability to lock to external 5 or 10 MHz clock reference

The available resources on the FPGA will vary depending on the code written for it. Based on the 27 March 2012 FPGA code build, the following resources are available:

- General LogicMemory: 3% free
- DSP Resources: The FPGA does not have DSP resources

Not all SD Cards are compatible with the USRP2; therefore we recommend using the Kingston 2GB SD cards with part number KGS SD2GB as we have found they work reliably. For our customers' convenience, we still stock replacement SD cards available for \$10. Please contact sales@ettus.com if you require a replacement SD card.

All Ettus Research products are individually tested before shipment. The USRP2 is guaranteed to be functional at the time it is received by the customer. Improper use or handling of the USRP2 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.



Never apply more than -15 dBm of power into any RF input.



Always use at least 30dB attenuation if operating in loopback configuration

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 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 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 at https://lists.sourceforge.net/lists/listinfo/openbts-discuss?.?

The support page on our website is located at https://www.ettus.com/support?. The Knowledge Base is located at ?https://kb.ettus.com?.

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.

If you have any non--technical questions related to your order, then please contact us by email at 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