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Implementing Software Defined Radio - a 16 QAM System ...

Frequency Offset Calibration Transmitter with USRP ...

Universal Software Radio Peripheral - Wikipedia

QPSK Receiver with USRP Hardware - MATLAB & Simulink Example

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Generation 2 USRP Build Documentation - Ettus

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USRP2 - Ettus Knowledge Base

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Usrp2 Documentation

The USRP2 is a high speed Ethernet-based board that is specifically built by Ettus Research for software radio. Drivers are open source and there is a variety of free software to integrate such software toolkits as GNU Radio.

This manual is split into two parts: The device manual, and the UHD/API manual.

The first part describes details of our devices, mainboards and daughterboards, as well as aspects of using UHD. The second is meant for developers writing UHD-based applications, and includes descriptions of the API, sorted by namespaces, classes and files.

The SDRuTransmitter System object is a sink that sends the data it receives to a USRP® board. The first call to this object might contain transient values, which can result in packets containing undefined data.

Throughout this documentation we will be using a sample file that contains the I/Q samples of a 802.11a packet at 24 Mbps (16-QAM). It'll be helpful to use an interactive iPython session and exercise various steps discussed in the document. Download the sample file from [here](#), the data can be loaded as follows:

API Documentation. The majority of the actual API documentation is in the auto-generated part of the manual. Use the tree browser at the left to click your way through the class list, the namespaces or files. Also, the search bar at the top can be used to search for function calls, classes or any other publically available symbol in the UHD namespace.

Navigate to `usrp2/top/{project}` where project is: N2x0: For USRP N200 and USRP N210; To build a binary configuration bitstream run `make <target>` where the target is specific to each product. To get a list of supported targets run `make help`. The build output will be specific to the product and will be located in the `usrp2/top/{project}/build` directory.

Load FPGA and firmware images for USRP radio - MATLAB sdruload

Implementation of Software-Defined Radio Using USRP Boards Communications Toolbox Support

Package for USRP Radio ...

Universal Software Radio Peripheral (USRP) is a range of software-defined radios designed and sold by Ettus Research and its parent company, National Instruments. Developed by a team led by Matt Ettus, the USRP product family is intended to be a comparatively inexpensive hardware platform for software radio, and is commonly used by research labs, universities, and hobbyists.

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The device address parameter keys must be suffixed with the device index. Each parameter key should be of the format `<key><index>`. Use this addressing scheme with the `uhd::usrp::multi_usrp` interface. The order in which devices are indexed corresponds to the indexing of the transmit and receive channels.

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PDF Documentation Design and verify practical SDR systems using Communications Toolbox™ Support Package for USRP® Radio . The support package enables the use of USRP® as a standalone peripheral for live RF data I/O using MATLAB® functions or Simulink® blocks.

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