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Ettus USRP N210: High-bandwidth, High-dynamic Range SDR/Cognitive Radio

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SKU: 6002-410-026

Ettus N210 options: (Required)

○ N210 standalone
○ N210 with UBX-40 daughterboard
○ N210 with LFRX and LFTX daughterboards

Quantity:

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| Description | Features | What's Included | Software | Support |

The Ettus Research™ USRP™ N210 is the highest performing class of hardware of the USRP™ (Universal Software Radio Peripheral) family of products, which enables engineers to rapidly design and implement powerful, flexible software radio systems. The N210 hardware is ideally suited for applications requiring high RF performance and great bandwidth. Such applications include physical layer prototyping, dynamic spectrum access and cognitive radio, spectrum monitoring, record and playback, and even networked sensor deployment. The Networked Series products offers MIMO capability with high bandwidth and dynamic range. The Gigabit Ethernet interface serves as the connection between the N210 and the host computer. This enables the user to realize 50 MS/s of real-time bandwidth in the receive and transmit directions, simultaneously (full duplex).

The USRP N210 provides high-bandwidth, high-dynamic range processing capability. The USRP N210 is intended for demanding communications applications requiring this type of rapid development. The product architecture includes a Xilinx® Spartan® 3A-DSP 3400 FPGA, 100 MS/s dual ADC, 400 MS/s dual DAC and Gigabit Ethernet connectivity to stream data to and from host processors. A modular design allows the USRP N210 to operate from DC to 6 GHz, while an expansion port allows multiple USRP N210 series devices to be synchronized and used in a MIMO configuration.

The USRP N210 can stream up to 50 MS/s to and from host applications. Users can implement custom functions in the FPGA fabric, or in the on-board 32-bit RISC softcore. The FPGA also offers the potential to process up to 100 MS/s in both the transmit and receive directions. The FPGA firmware can be reloaded through the Gigabit Ethernet interface.

The Networked Series MIMO connection is located on the front panel of each unit. Two Networked Series units may be connected to realize a complete 2x2 MIMO configuration using the optional MIMO cable. External PPS and reference inputs can also be used to create larger multi-channel systems. The USRP Hardware Driver™ is the official driver for all Ettus Research products. The USRP Hardware Driver supports Linux®, Mac OSX®, Windows®.

All Ettus products sold through Digilent include Ettus's standard warranty. Find out more on Ettus.com.

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