**USRP™ B200mini Series**  
**Business Card Sized SDR**

**Product Overview**
The USRP B200mini Series delivers a 1x1 SDR/cognitive radio in the size of a business card. With wide RF coverage from 70 MHz to 6 GHz and a user-programmable Xilinx Spartan-6 FPGA, this flexible and convenient platform is ideal for both hobbyist and OEM applications. The RF front end uses the Analog Devices AD9364 RFIC to provide a cost-effective transceiver with 56 MHz of instantaneous bandwidth powered by a high-speed USB 3.0 connection for streaming data to the host computer. The B200mini Series also includes connectors for GPIO, JTAG, and synchronization with a PPS trigger or 10 MHz reference input signal. There are three configurations in this product family with options for a larger or industrial-grade FPGA. The USRP Hardware Driver™ (UHD) software API supports all USRP products and enables users to efficiently develop applications then seamlessly transition designs between platforms as requirements expand.

**Applications**

**Hobbyists and New Users**
The powerful UHD software API reduces the learning curve and provides a quick start experience for new users and long-time hobbyists interested in AM/FM applications, cellular communication, and algorithm exploration.

**Wireless Signal Discovery and Analysis**
The content-rich GNU Radio community provides a wide range of tools and algorithms that enable discovery and analysis of air interface protocols.

**OEM and Integration**
The compact form factor and cost-effective design of the B200mini Series make it ideal for integration into larger systems for research and deployment. The Ref/PPS and GPIO features provide seamless synchronization and control capability.

**Features**

**B200mini Variations**
- B200mini (LX75 C-Grade FPGA)
- B200mini-i (LX75 I-Grade FPGA)
- B205mini-i (LX150 I-Grade FPGA)

**RF Capabilities**
- 1 TX, 1 RX
- 70 MHz to 6 GHz RF Coverage
- Up to 56 MHz Bandwidth

**Software**
- UHD
- GNU Radio
- C/C++ and Python

**High-speed Interface and Power**
- USB 3.0 Super Speed
- USB Powered

**Synchronization Architecture**
- 10 MHz reference or PPS trigger

**Peripherals**
- GPIO
- JTAG

**Form Factor**
- 2.0 ” x 3.3” (5.0cm x 8.4cm)
About Ettus Research

Ettus Research™, a National Instruments company, is the world’s leading supplier of software defined radio platforms, including the USRP™ (Universal Software Radio Peripheral) family of products. The USRP platform supports multiple development environments on an expansive portfolio of high performance RF hardware, and enables algorithm design, exploration, prototyping, and deployment of next generation wireless technologies across a wide variety of applications spanning DC to 6 GHz such as cognitive radio, spectrum monitoring and analysis, remote sensing, advanced wireless prototyping, mobile radio, public safety, broadcast TV, satellite communication, and navigation.