

NI Ettus USRP B206mini-i

Compact Software-Defined Radio for Flexible Wireless Applications

The USRP B206mini-i is a 1x1 software-defined radio (SDR) in the size of a business card. With a wide frequency range from 70 MHz to 6 GHz and a user-programmable Xilinx Spartan-6 FPGA, this flexible and compact platform is ideal for both education and OEM applications. The RF front end uses the Analog Devices AD9364 RFIC transceiver with 56 MHz of instantaneous bandwidth. The board is bus-powered by a high-speed USB 3.0 Type C connection for streaming data to the host computer.

Why Choose USRP B206mini-i?

- Connect to a laptop easily with a Type C USB connector
- Available with or without an enclosure, ideal when optimizing for size and weight is critical
- Flexible RF front end for applications up to 6 GHz
- Operate in challenging conditions with industrial temperature support
- The open-source UHD driver lets you choose the software that works best for you



Technical Specifications

Parameters	B206mini-i
Frequency Range	70 MHz to 6 GHz
Bandwidth	Up to 56 MHz
Transmit/ Receive	1 Tx, 1 Rx
FPGA	Spartan-6 LX150
Interface	USB 3.0 Type C (bus-powered)
Compact Design	84.3 x 51.6 x 8.4 mm, 25 g (board only) 85 x 55.7 x 18 mm, 108 g (board in enclosure)
Synchronization	10 MHz or PPS reference
Control	GPIO, JTAG
Temperature Range	0 to 40°C (board only) -40 to +75°C (board in enclosure)

Software Specifications

Parameters	Details
Development Tools	UHD, GNU Radio, Python, C/C++, LabVIEW
Software Compatibility	UHD Driver (open source)

