

Ruggedized NI Software Defined Radios

Pixus offers ruggedized versions of NI's Ettus Research™ brand of USRP Software Defined Radios (SDRs). These tunable transceivers are an ideal product to prototype wireless communications, and to develop and deploy EW / SIG-INT applications and wireless systems.

The ruggedized SDRs can be used in various outdoor, MIL Rugged and other applications that require enhancement for shock/vibration, water/dust/sand protection, extreme temperatures, and more.

Applications

- Wideband Spectrum Monitoring
- Drone Detection/Deterrence
- Signals Intelligence
- Electronic Warfare
- Passive RADAR
- Advanced Wireless Prototyping
- Massive MIMO Testbeds
- AIS Coastal Monitoring
- Multi-channel Decoding
- NarrowBand IoT Base Station

RX310	RX410	RB210	RN310
			
• 2 Tx, 2 Rx	• 4 Tx, 4 Rx	• 2 Tx, 2 Rx	• 4 Tx, 2 Rx
• 160 MHz IBW	• 400 MHz IBW	• 56 MHz IBW	• 100 MHz IBW
• Up to 6 GHz	• Up to 8 GHz	• Up to 6 GHz	• Up to 6 GHz
• 10 GbE	• 100 GbE	• USB 3.0	• 10 GbE
• Air, IP67 & MIL std	• IP67 & ML std*	• IP67 std*	• IP67 & MIL std*

* Other versions are upon demand.

OTHER Pixus will develop other NI USRP rugged enclosures upon demand. Includes, but not limited to, the E series, other N and B series, etc.



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Ruggedization Levels

Each chassis type includes options for a heater or fan to extend the temperature range. Contact Pixus to discuss your application.

- **Air Cooled** – Used in often a controlled environment (19" rackmount) that requires higher shock and vibration than the standard NI enclosure. Supports advanced cooling options, transport grade ruggedization, and other requirements.
- **IP67 Weather Resistant** – Used in applications where could be exposed to harsh environments, typically either temporary conditions or covered or in an enclosed area. Pixus can provide "roof cover", pole-mount, and other accessories.
- **MIL Rugged** – Used in rugged applications where MIL 810 for shock and vibration and MIL 461 for EMI are required. The 38999 connector interfaces are utilized, typically airborne, shipboard, or vehicle-mounted defense applications.



Environmental Specifications

- Air Cooled: typically -5C° to 50C°
- IP67 Weather Resistant without heater / fan: typically -5C° to 50C°
- IP67 Weather Resistant with heater / fan: typically -40C° to +71C°
- MIL Rugged without heater / fan: typically -5C° to 50C°
- MIL Rugged with heater / fan: typically -40C° to +71C°



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