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Pixus Releases MIL-grade Version of RX310 Software Defined Radio

Waterloo, Ontario — Mar 05, 2021– Pixus Technologies, a provider of embedded computing and enclosure solutions, has announced a new implementation of its ruggedized enclosure utilizing NI's Ettus Research brand Software Defined Radio (SDR).

The RX310-X03 enclosure is designed to MIL-STD-810 for shock/vibration/environmental and MIL-STD-461 for EMI.   It features MIL 38999 connectors for the front and rear I/O interfaces. The conduction-cooled enclosure is also IP67 weatherproof. The RX310-103 version contains two extended bandwidth daughterboard slots covering DC – 6 GHz with up to 120 MHz of baseband bandwidth, multiple high-speed interface options (PCIe, Dual 1/10 GigE), and a large user-programmable Kintex-7 FPGA.

The RX310 series can be used in various types of airborne, shipboard, ground vehicle, or outdoor designs.   Example applications include SIG-INT, passive RADAR, smart agriculture, smart energy, and prototyping systems for advanced wireless (WiFi/Cell/MIMO).   Pole-mount and other special mounting options are available.

Pixus also offers other ruggedized SDRs from NI, including it's B, N, and E-series models. Light-rugged versions of the enclosures are also available upon request as well as specialty configurations.

About Pixus Technologies

Leveraging over 25 years of innovative standard products, the Pixus team is comprised of industry experts in electronics packaging. Founded in 2009 by senior management from Kaparel Corporation, a Rittal company, Pixus Technologies' embedded backplanes and systems are focused primarily on ATCA, OpenVPX, MicroTCA, and custom designs.   Pixus also has an extensive offering of VME-based and cPCI-based solutions. In May 2011, Pixus Technologies became the sole authorized North and South American supplier of the electronic packaging products previously offered by Kaparel Corporation and Rittal.