Company Contact: Justin Moll , Pixus Technologies Justin.moll@pixustechnologies.com 519-885-5775

New RX310 Rugged SDR from Pixus Features TwinRX Option

Waterloo, Ontario — Jan 09, 2019 – Pixus Technologies, a provider of embedded computing and enclosure solutions, has developed ruggedized versions of commercial software defined radios. The latest in the series is the RX310-2 that features standard commercially available TwinRX daughtercards from Ettus Research, a National Instruments brand.

The RX310-2 allows one or two TwinRX daughtercards to be installed in the chassis. The TwinRX is a dual channel super-heterodyne receiver that offers wide dynamic range and accurate phase synchronization with Local Oscillator (LO) sharing for spectrum monitoring and direction finding. A GPS disciplined oscillator is optional as well as versions with 1 UBX daughtercard and 1 TwinRX. The UBX is a full-duplex wideband transceiver that covers frequencies from 10 MHz to 6 GHz.

Pixus installs the motherboard and daughterboard configurations into a rugged weatherproof enclosure that features IP67 sealing for water and dust ingress. The conduction-cooled chassis is also optionally designed for MIL-STD-810 for shock/vibration and MIL-STD-461 for EMI. Light rugged versions of the RX310 series with fans and filtering are available upon request.

The I/O panel for the RX310 is modular, allowing various customization options to be employed. The RX310 series can be used in various types of airborne, shipboard, ground vehicle, or outdoor designs.   Example applications include SIG-INT, spectrum monitoring, passive RADAR, smart agriculture, smart energy, and prototyping systems for advanced wireless standards.

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.

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