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Pixus Announces a New Wearable Software Define Radio With Enhanced Ruggedization

Waterloo, Ontario — July 11, 2022 – Pixus Technologies, a provider of embedded computing and enclosure solutions, has announced a new compact implementation of its ruggedized enclosure line utilizing NI's Ettus Research™ brand Software Defined Radio (SDR).

The new RB210 is a ruggedized version of NI's small form factor B210 SDR. It currently comes in an IP67 weather resistant style with options for full MIL grade implementations. The compact unit is approximately 87mm tall x 156mm wide and 300mm long and weighs under 7 lbs. It can be used in human wearable configurations or other applications requiring low SWaP (Size, Weight, and Power). The modular front and rear faceplates are customizable for various I/O implementations.

The RB210 features continuous frequency coverage from 70 MHz – 6 GHz. It combines the AD9361 RFIC direct-conversion transceiver providing up to 56MHz of real-time bandwidth, an open and reprogrammable Spartan6 FPGA, and fast SuperSpeed USB 3.0 connectivity with convenient bus-power.

Pixus now offers air cooled, conduction-cooled IP67, and conduction-cooled MIL grade versions of NI's SDRs. The company has also developed ruggedized enclosures for the NI X310, N310, and X410 styles.

About Pixus Technologies

Leveraging over 20 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 OpenVPX / SOSA, ATCA, MicroTCA, and custom designs. Pixus also has an extensive offering of VME-based and cPCI-based solutions as well as ruggedized SDRs from NI.