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Ruggedized X420 USRPs Announced by Pixus Technologies

Kitchener, Ontario — May 22, 2026 – Pixus Technologies, a provider of embedded computing and enclosure solutions, has released the ruggedized RX420 NI Software Defined Radios (SDRs). The SDR utilizes Emerson’s newest Universal Software Radio Peripheral (USRP), the NI Ettus USRP X420, featuring 2 transmit and 2 receive channels and frequency coverage from 10 MHz – 20 GHz with up to 1 GHz instantaneous bandwidth.

The RX420 comes in IP67 outdoor versions and full MIL ruggedized and qualified designs. The conduction-cooled enclosures have options for extreme temperatures from –40C to 85C with an internal heater and/or MIL grade external fan pulling air over the conduction fins. Customization options are available.

Applications include G6 wireless in the FR3 band, radar, non-terrestrial networks (NTN), and satellite communications. The wide bandwidth allows for a high resolution in localization scenarios for applications like integrated sensing and communications (ISAC). Each channel supports LO sharing, making the RX420 an ideal platform for building multi-channel phase coherent systems.

In addition to the ruggedized Emerson USRPs, Pixus offers Modular Open System Architecture and SOSA aligned backplanes, enclosures and chassis managers. The company also develops ruggedized and COTS solutions for various VITA and PICMG specifications.

About Pixus Technologies

Leveraging over 20 years of innovative standard products, the Pixus team is comprised of industry experts in electronics packaging. Pixus Technologies' embedded backplanes and systems are focused primarily on SOSA and OpenVPX designs. The company also has an extensive offering of VME-based and cPCI-based solutions.

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