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

Pixus and COMINT Consulting Collaborate to Enhance Ruggedized Emerson/NI SDRs

New Signal Decoding Software Option Boosts Capabilities

Waterloo, Ontario — Apr 1, 2025 – Pixus Technologies, a provider of embedded computing and enclosure solutions, offers Emerson (Ettus Research brand) USRP Software Defined Radios (SDRs) in ruggedized versions. COMINT Consulting provides superior signal decoding and analysis software/firmware for SIGINT & COMINT. The combined solution provides tailored waveform monitoring/control options for a wide range of applications.

The Pixus-ruggedized Emerson SDRs in the RX310 and RX410 versions are ideal for Electronic Warfare, SIGINT, COMINT, and other applications. Working seamlessly with the Krypto1000 VHF-SHF and satellite software suite, the SDRs can perform all of the functions of the SIGINT mission: Control, Collection, Precision Classification, Demodulation and Decoding, Parsing and even Decryption with the KeyFinder option.

The SDRs are designed to allow the units to be used in wider temperature ranges up to –40C to +71C, are fully IP67 sealed, and it areas with higher shock and vibration. The ruggedized SDRs have been qualified to meet MIL810 and MIL461.

Pixus also offers the NI B210, N310, X310, and other SDRs in IP67 weatherproof and MIL rugged formations. The company also provides small form factor (SFF) customized designs per customer's specifications as well as VITA standard architectures.

 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 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.

About COMINT Consulting

COMINT Consulting develops advanced COMINT and SIGINT software suites for analysis, digital signal demodulation, precise modem classification, traffic and nodal analysis, automatic network diagramming, digital signal decoding, parsing and radio fingerprinting. Founded by and for SIGINT professionals, COMINT Consulting produces Krypto500 (ELF - HF) and Krypto1000

(VHF- SHF and Satellite) digital signal decoding software for COMINT, SIGINT, Electronic Warfare (both Electronic Attack (EA) and Electronic Support Measures (ESM), SIGINT Systems, COMINT systems, signals interception for ANY mission platform.

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