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New High Performance ATR Enclosures Aligned With the SOSA™ Technical Standard Announced by Pixus

Waterloo, Ontario — July 17, 2023 – Pixus Technologies, a provider of embedded computing and enclosure solutions, has released new 1/2 to 3/4 size ATRs aligned with the technical standard of SOSA.   These chassis support multiple 3U OpenVPX in various slot profile configurations.

The new Pixus ATRs come in versions that hold VITA 48.2 conduction cooled boards in up to 12 slots and 10 slots respectively. They have supplemental airflow over the fins inside the sidewalls for enhanced cooling up to 100W/slot depending on the application environment. The airflow is achieved either with dual MIL grade fans or via an interface to the platform's air conditioning system. Backplanes are available in various sizes and configurations for multiple OpenVPX/SOSA profiles and speeds up to 100GbE and PCIe Gen4 (higher speeds are optional upon request).

The Pixus ATRs are designed to the latest MIL 810, MIL 461, DO-160, and related specifications. There is space below the backplane for routing RF and fiber interfaces to the front panel along with Pixus' standard SHM300 SOSA aligned chassis manager. Tempest and other special filtering is optional. Leveraging these proven platforms, Pixus tailors each solution to the customer's specific application requirements.

Pixus offers SOSA aligned chassis platforms in ATR, MIL rugged rackmount, and lab/test configurations. Cooling configurations are available in conduction, airflow over conduction fins, Air-Flow-Through (AFT), Air-Flow-By (AFB), and liquid cooling. With SOSA backplanes, enclosures, and chassis managers, as well as partners for power supplies and plug-in cards, Pixus can provide a complete SOSA aligned solution for customers.

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, Pixus Technologies' embedded backplanes and systems are focused primarily on SOSA, OpenVPX, xTCA, VME, cPCI Serial, and custom designs. Pixus USA was formed in 2022, based in Tonawanda, NY.