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New AdvancedTCA Shelf Features Unprecedented Cooling Capability

Waterloo, Ontario — Feb 8, 2016   – Pixus Technologies, a provider of embedded computing and enclosure solutions, now offers a 15U AdvancedTCA (ATCA) chassis that exceeds 400W/ slot cooling capability and meets stringent NEBS requirements.

While others in the industry have boasted 400W/slot cooling, NEBS compliance and the CPTA best practices are often ignored. This includes the ability to cool the chassis with a fan tray removed for 2 minutes and remaining within FCC acoustic requirements for Db levels, etc. The Pixus chassis is designed to provide at least 400W/slot while meeting all compliance criteria and recommended practices.

The Pixus chassis leverages the original Kaparel design, referred to as "the most successful ATCA chassis design in the industry" with over 15,000 installments.   Over ten years ago, this 13U design used patented RiCool II blowers for 275W/slot of cooling. Today's 15U unit provides more air evacuation using the next generation of reverse impellar hot-plug cartridges. The new RiCool III blowers feature 185 CFM of airflow per fan with 71mm $H^2 0$ of static pressure.

Like the 13U ATCA chassis, the 15U enclosure features specially designed EMI filter trays above and below the card cage that help collimate airflow in the system. The AdvancedTCA chassis offer full redundancy of all FRUs (field replaceable units).   Both 40GbE and 10GbE backplane options are available.   To minimize the cost of the backplane, the signal section and power section are separate. This prevents the backplane from becoming overly thick and expensive with heavy power rails. The separation of the power plane further facilitates the migration to 100G backplane systems.

Ruggedization options are available for the AdvancedTCA shelves. Pixus also offers backplane/ chassis platforms in the OpenVPX, MicroTCA, and custom 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.