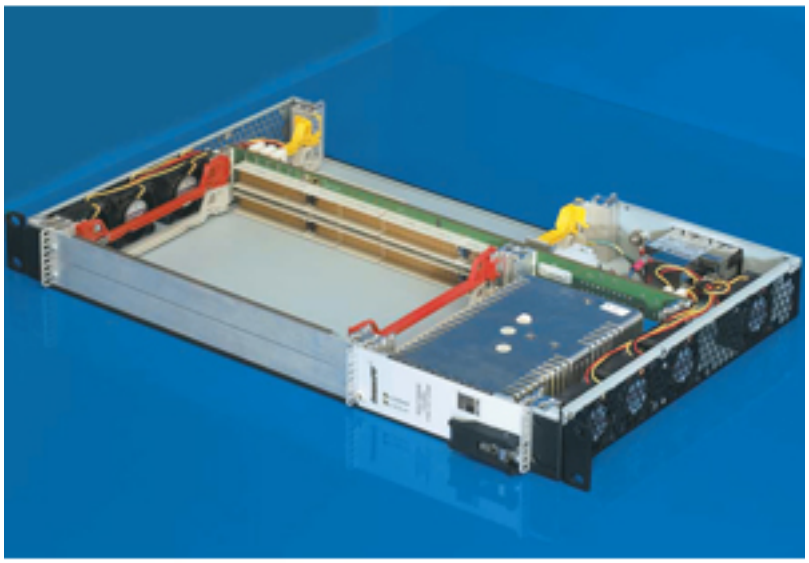
Enclosure achieves 115 CFM of airflow



Pixus Technologies has announced a new version of its SlimBox line of enclosures to address advanced cooling requirements.

As new high speed (and high heat) chipsets are designed onto the latest CompactPCI, OpenVPX, and other boards; the requirement for additional enclosure cooling continues to grow. Pixus Technologies' High-CFM SlimBox line combines the highly desired performance density of a horizontal-mount enclosure with an advanced cooling solution.

The High-CFM 1U SlimBox is a 19" rackmount or desktop enclosure that holds a 2-slot 0.8" pitch CompactPCI, VME/VME64x, OpenVPX, or custom backplane mounted horizontally. The enclosure features a push-pull cooling configuration with seven fans for a total of over 115 CFM (cubic feet per minute) of airflow. The fans come in separately removable fan trays, allowing ease of replacement/swapping. Careful design analysis was instituted to confirm that the chassis maintains reasonable acoustic noise levels and that static pressure did not affect performance.

The SlimBox line features a wide range of power supply options in pluggable, fixed, N+1, or redundant power configuration options, depending on the chassis size. Alarm cards or other system/voltage monitoring devices are also available. Other options include a 4-pin header on the backplane for Tach Signals & PWM (Pulse Width Modulation). The Tach/PWM option allows the fans to speed up or slow down to optimize the cooling and power utilization.

Pixus Technologies also offers SlimBox enclosures in 2U, 3U, and 4U heights with backplane sizes up to 8 slots. Advanced cooling options for these taller SlimBox designs are also available.

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