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Alternate Connector for VPX Ratified

New connector designed to meet the demanding requirements of the next generation of rugged military and aerospace applications

Scottsdale, AZ, March 20, 2012 — VITA, the trade association for standard computing architectures serving critical embedded systems industries today announced the ratification by ANSI of VITA 60 under ANSI/VITA 60-2012. This specification describes an alternate connector for VPX as specified in VITA 46.0, VPX Baseline Standard. VITA 60 offers an option for VPX applications where greater resistance to environmental conditions is needed

The alternate connector is based on the Amphenol VIPER™ connector, a powerful new backplane and daughtercard interconnect platform providing 63 differential signals per linear inch. The VIPER™ connector has been designed to meet the demanding requirements of the next generation of rugged military and aerospace applications.

“ABS developed the VIPER interconnect platform after extensive voice of the customer interviews,” stated Michele York, Product Manager, Amphenol Backplane Systems. “These interviews drove us to meet or exceed future avionic high-level vibration, mechanical shock and condensing moisture test requirements. Customers emphasized the need for ruggedization in the next generation of military packaging solutions that can scale to higher bandwidths without costly and time-consuming chassis redesigns.” The VIPER connector platform offers the ability to scale from 80 Mbps to over 10 Gbps while retaining the same VPX backplane slot pitch at 20.3mm to 25.4mm.

VITA 60 offers a connector that is an intermountable (mounts in same PWB layout) alternative to the VITA 46 connector. This intermountable technology leverages the benefits of established VPX PWB configurations and the industry's broad offerings of high-speed card products. This approach also leverages the modularity of the connector for many custom configurations as well as the standard 3U and 6U formats for both top side and Rear Transition Module (RTM) formats.

By explicitly including critical embedded system environments in its charter, the VPX working groups were able to address important issues such as stress testing, vibration testing, and compatibility with conduction-cooling and liquid-cooling techniques. The VPX module format will provide system integrators with a platform capable of leveraging new switch fabric standards, ultimately enabling systems with higher performance and lower cost.

The standard document is available from VITA. Logos, roadmaps and other images are available upon request.

About VITA

Founded in 1984, VITA is an incorporated, non-profit organization of suppliers and users who share a common market interest in critical embedded systems. VITA champions open system architectures. Its activities are international in scope, technical, promotional, and user-centric. VITA aims to increase total market size for its members, expand market exposure for suppliers, and deliver timely technical information. VITA has ANSI and IEC accreditation to develop standards (VME, VXS, VPX, OpenVPX, VPX REDI, XMC, FMC, etc.) for embedded systems used in a myriad of critical applications and harsh environments. For more information, visit www.vita.com.

Source: VITA