VITA
Open Standards, Open Markets

NEWS RELEASE

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VXS Continues to Expand into New Markets, Technology Evolves

SCOTTSDALE, AZ, August 16, 2011 — The VXS Marketing Alliance, a group of VITA members organized to promote the VXS architecture and drive further adoption of the VITA 41.x specifications and technology, has announced new design wins as VXS continues to be adopted in a diverse range of applications.   The markets seeing the most VXS activity include Defense, Medical, and High-performance computing.   The architecture is also expanding into higher signal speeds for increased bandwidth performance.

"While architectures like VPX are mainly focused in Mil/Aero applications, VXS has seen design wins in an interesting mix of markets," said Justin Moll, Chair of the VXS Marketing Alliance. "Balancing cost, performance, and backwards-compatibility, VXS offers a unique confluence of benefits that fits well in a diverse range of applications."

Recent VXS Architecture Design Wins:

- Hybrid VXS ATR in key European UAV program
- Wideband spectral processing for digital IF, RF applications
- Medical PET/CT Scan equipment using hybrid VXS design
- Anti-Submarine Warfare (ASW) platform using VXS blades and 10-Gigabit VXS switch modules
- Hybrid VXS for data acquisition in research with electron beam accelerator

Hybrid VXS applications are popular as they utilize the high-speed serial connectivity while leveraging existing VME and VME64x boards. This provides hardware and software re-use options, saving the customer time, training, costs, and more.

Customer applications are demanding ever increasing performance levels. Data rates are evolving from 3.125 Gbps "Generation 1" VXS levels into higher speeds.   To meet demand, VXS board vendors have introduced processor and IO boards with data rates of 5Gbps up to 6.25Gbps. Backplanes have also been developed for speeds up to 6.250 Gbps. The backplanes can typically be designed using standard FR-4, but depending on the configuration and performance limits, low-dielectric PCB materials such as Nelco 4000-13SI may be used.

About VXS Marketing Alliance

More information on VXS and the VXS Marketing Alliance can be found on the VITA Web site at www.vita.com/vxs.   The latest VXS products introduced by the Alliance and VITA members are located at (www.vita.com/home/Products/productsearch.php) The alliance currently consists of Concurrent Technologies Plc, CSP Inc., Curtiss-Wright Controls Inc., Elma Bustronic Corp, Elma Electronic Inc., Hartmann Electronic, Mercury Computer Systems Inc., Meritec/Joy Signal Technology, Pentek Inc., SIE Computing Solutions, Tek Microsystems, and W-IE-NE-R, Plein, & Baus GmbH.

VXS brings high-speed serial IO capability and up to 30 Gigabits per second (Gbps) aggregate data rate performance, while maintaining the vast VME hardware and software ecosystem. This provides a powerful combination of performance, wide selection, and cost-savings.

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.

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