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VadaTech Releases Versatile PCIe Gen3 Expansion Solution for MicroTCA & Other Systems

Embedded World – Feb 24, 2015 – VadaTech, a manufacturer of embedded boards and complete application-ready platforms, has announced two boards that provide high-speed PCIe Expansion from an industrial PC to MicroTCA, AdvancedTCA, or other systems.   The versatile modules can be used with industry standard options for copper or fiber cables. Customization is not required.

The PCI123 is a PCIe compliant module routing x16 PCIe Gen 3 out of the front panel ports. Utilizing SFF-8644 connectors, the signals can be partitioned as a single x16, dual x8 or quad x4 as required.   The module supports an aggregate raw data rate of up to 128 Gbps. This module can be cabled to VadaTech's UTC006 MicroTCA Carrier Hub (MCH) for PCIe Expansion.   The MCH offers quad SFF-8644 ports for PCIe Gen3 expansion (x16, x8, or x4). It features a PCIe switch and routes PCIe x16 to the Rear Transition Module (RTM). A quad-core 1 GHz CPU drives the MicroTCA Carrier Management Controller, Shelf Manager, Clocking, and Fabric management.   The UTC006 also has a clock & jitter cleaning PLL synthesizer for generating any clock frequency disciplined to GPS/SyncE/IEEE 1588.

The UTC006 provides an Ethernet switch managing an enterprise-grade Layer 2 or 3 switching/routing stack. Dual in-band 100/1000/10G are routed to the front panel via RJ-45 ports. There are also dual out-of-band LAN 10/100 via RJ-45 ports as well as dual CLK IN/OUT via SMB.

An AdvancedTCA-based interface for the PCI123 is also available to VadaTech's ATC122 PCIe Gen 3 carrier.   VadaTech provides the full ecosystem of MicroTCA products, including AMCs, chassis platforms, MCHs, and power modules. The company also offers AdvancedTCA products in various formats and specialty products in VPX, CompactPCI, and more.

About VadaTech

VadaTech provides innovative embedded computing solutions from board-level products, chassis-level platforms, to configurable application-ready systems. With a focus on MicroTCA and AdvancedTCA solutions, the company offers unmatched product selection and expertise in the full xTCA ecosystem.   With our unique combination of electrical, mechanical, software, and system-level expertise, VadaTech can provide customized commercial or rugged computing solutions to meet the most complex customer requirements. VadaTech also offers specialized product solutions for VPX/VME, CompactPCI, and other architectures. A member of PICMG and VITA, VadaTech is headquartered in Henderson, NV with offices in Europe and Asia Pacific.

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