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VadaTech Announces a 6U OpenVPX 40G Switch with Health Management and JSM

Henderson, NV – April 12, 2024 – VadaTech, a leading manufacturer of integrated systems, embedded boards, enabling software and application-ready platforms, announces the [VPX011](#). The VPX011 is part of the VadaTech family of 40G switches fully integrated with health management. The health management is the most feature-rich VPX product in the market. The Ethernet Switch is managed with an enterprise grade Layer-3 switching/routing stack that supports IEEE1588 and Synchronous Ethernet. Each 40GbE port is also configurable to run as four 10GbE or four 1GbE. The switch has a throughput of 730Gb which allows each port to run at full 40G speed without any blocking. The VPX011 runs Linux on its centralized quad-core CPU.

The module has clock inputs for 1PPS LVCMOS and/or 10MHz sine wave (up to 300MHz) with an on-board PLL that can lock to generate the necessary clocks for SyncE as well IEEE1588v2. The module can act as a PTP-to-NTP bridge and PTP Boundary Clock. The module has a JTAG Switch Module (JSM) which provides JTAG to each slot. The Virtual Probe allows the JTAG to be managed by the on-board CPU thru an Ethernet port. This can replace having a JTAG dongle to the FPGA modules in the system.

Additionally, the VPX011 has advanced clocking features including high-quality clock distribution/synthesis to the two VPX P0 clocks across the backplane. Please consult with VadaTech Sales to discuss the Conduction Cooled versions and other specific ordering options.

About VadaTech

[VadaTech](#) provides innovative embedded computing solutions from board-level products, chassis-level platforms, to configurable application-ready systems. With a focus on AdvancedTCA, MicroTCA, VPX and PCIe solutions, the company offers unmatched product selection and expertise. A unique combination of electrical, mechanical, software, and system-level expertise, enables VadaTech to provide customized commercial or rugged computing solutions to meet the most complex customer requirements. VadaTech also offers specialized product solutions for VME, CompactPCI, and other architectures. A member of PICMG and VITA, VadaTech has headquarters, design and manufacturing facilities in Henderson, NV with design, support and sales offices in Europe and Asia Pacific.

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