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VadaTech Announces a 6U VPX, Virtex UltraScale+ FPGA with Octal ADC/DAC

Henderson, NV – March 6, 2024 – VadaTech, a leading manufacturer of integrated systems, embedded boards, enabling software and application-ready platforms, announces the [VPX576](#). The VPX576 is a 6U VPX FPGA based on Xilinx XCVU13P FPGA with front I/O access. The module has an on-board, reconfigurable FPGA which interfaces directly to the VPX P1/P2/P3/P4 with high speed SERDES and LVDS/Single ended to P5. The SERDES are configurable to run multiple protocols such as PCIe, Aurora, SRIO, XAUI, 40G, 100G, etc. For the PCIe option the module could run as single x16/x8/x4.

The FPGA on the VPX576 interfaces with two Analog Device AD9081 devices. The module takes direct RF Clock and distributes across the two devices and the two devices are synchronized. The FPGA has dual bank of DDR-4 with total of 12GB. A single bank of DDR-4 64-bit wide (8GB) and single bank of DDR-4 32-bit wide (4GB). The DACs could run @ 12 GSPS 16-bit wide and the ADCs could run @ 4 GSPS 12-bit wide. The VPX576 has Quad QSFP28 ports in the front which could run as 100Gb Ethernet or any other protocols such as Aurora, SRIO, etc.

Further the module has a Zynq UltraScale+ FPGA which interfaces to the VU13 via x1 PCIe, dual x2 SERDES as well as single ended. The ZU04 has two GbE which is routed from the PS side to the P1 ports 15/16, dual SERDES to the P1 Ports 13/14 from the PL side and lastly an onboard microcontroller implements Tier-2 health management. Please consult with VadaTech Sales to discuss the product and 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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