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VadaTech Announces a Zynq UltraScale+ RFSoC FPGA, Double AMC, MTCA.4

Henderson, NV – October 31, 2023 – VadaTech, a leading manufacturer of integrated systems, embedded boards, enabling software and application-ready platforms, announces the AMC577. The AMC577 utilizes the Xilinx XCZU49DR RFSoC. The AMC is compliant to AMC.1, AMC.2, AMC.3 and AMC.4 specifications. The unit has an on-board, re-configurable FPGA which interfaces directly to the AMC FCLKA, TCLKA-D. The module has two banks of 64-bit wide DDR4 memory (for PS and PL), with ECC on the PS side, for a total of 16 GB. This allows for large buffer sizes to be stored during processing as well as for queuing the data to the host.

The RFSoC device includes 16 ADC (14-bit @ 2.5 GSPS) and 16 DAC (14-bit @ ~9.7 GSPS) with analog I/O routed to a MicroRTM per MTCA.4. Clock and trigger I/O are provided. The front panel also has the interface to the Display Port, single USB, RS-232 Ports as well as dual high-density connector for external I/O (total of 128 single ended or 64 differential). The XCZU49DR includes a quad-core ARM Cortex-A53 application processing unit and dual-core Cortex-R5 real-time processing as well as over 4,200 DSP, 930 K logic cells and over 60 MB of internal memory (including 22.5 Mb of UltraRAM). The onboard clock Jitter cleaner/PLL has an OCXO for stability and XO as the jitter reference.

The Module also has on board 64 GB of Flash, 128 MB of boot flash and an SD Card as an option. Please consult with VadaTech Sales to discuss 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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