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VadaTech Announces a new Zynq UltraScale+ RFSoc FPGA Board

Henderson, NV – May 4, 2020 – VadaTech, a leading manufacturer of integrated systems, embedded boards, enabling software and application-ready platforms, announces the [AMC576](#) module. The AMC576 utilizes the Xilinx XCZU29DR RFSoc and is compliant to AMC.1, AMC.2, AMC.3 and AMC.4 specifications. The unit interfaces the FPGA directly to the AMC FCLKA and TCLKA-D. The FPGA is supported by two banks of 64-bit wide DDR4 memory (PL and PS), with PS memory including ECC, 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 (12-bit @ 2 GSPS) and 16 DAC (14-bit @ 6.4 GSPS) with analog I/O routed to a MicroRTM, together with clock and trigger I/O, per MTCA.4. The XCZU29DR 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 module has on board 64 GB of Flash, 128 MB of boot flash and an optional SD Card. The front panel provides DisplayPort, dual USB, RS-232 ports for CPU and management, and dual high-density connector for external I/O (total of 128 single ended or 64 differential). The RFSoc device is targeted at 5G and LTE wireless, phased array radar, satellite communications, and test and measurement applications.

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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