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VadaTech Announces new ADC/DAC Modules with Xilinx UltraScale+™ XCVU13P

Henderson, NV – July 11, 2018 – VadaTech, a leading manufacturer of integrated systems, embedded boards, enabling software and application-ready platforms, announces the AMC587 and AMC588. These modules couple high-performance RF front end with an XCVU13P providing signal processing bandwidth at over 20 TeraMACs of DSP compute performance in the compact AdvancedMC (AMC) form factor. OpenVPX versions of these modules are planned for later this year.

The AMC587 provides dual-channel 12-bit ADC with sample rates of up to 6.4GSPS (TI ADC12DJ3200, ADC12DJ2700, or ADC12DJ1600), or quad inputs at 3.2 GSPS, and a dual 16-bit DAC (Analog Devices AD9162 orAD9164) with update rate of up to 12 GSPS and direct RF synthesis at 6 GSPS. This makes it suitable for signal capture/analysis applications such as COMINT/SIGINT, radar, research and instrumentation. The unit has an on-board, re-configurable UltraScale+™ XCVU13P FPGA which interfaces directly to ADC/DAC. The FPGA is supported by a single bank of DDR4 memory, allowing for large buffer sizes to be stored during processing as well as for queuing the data to the host.

The AMC588 is a wideband transceiver with four AD9371 connected to a Virtex UltraScale+™ FPGA. This provides eight transceivers channels with a frequency range of 300 MHz to 6 GHz, making it suitable for SDR, BTS, antenna systems, research and instrumentation. The module is compatible with ADI RadioVerse™ design tools and is supported by full VHDL reference design with source code. The on-board re-configurable UltraScale+™ XCVU13P FPGA interfaces via JESD204B directly to wideband transceivers. The FPGA is supported by a single bank of DDR4 memory channels (64-bit wide for a total of 8GB).

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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