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VadaTech Announces new 3U VPX Virtex UltraScale+ FPGA Board with 5.4 GSPS 12-bit ADC and 6 GSPS 12-bit DAC

Henderson, NV – October 24, 2017 – VadaTech, a leading manufacturer of integrated systems, embedded boards, enabling software and application-ready platforms, announces the [VPX570](#). The VPX570 is a low-latency RF ADC/DAC module with ADC supporting rates up to 5.4 GSPS and a DAC supporting rates up to 6 GSPS, both at 12 bits. The EV12DS460A and EV12AS350A both have parallel interfaces to the FPGA, avoiding latency associated with serializing/deserializing data. The XCVU13P FPGA has a large 360 Mb on-chip UltraRAM which, with the ADC and DAC selection, makes this module ideal for low-latency applications such as DRFM, radar simulators and smart jammers.

The FPGA interfaces directly to rear I/O via SERDES and LVDS, supporting PCIe, SRIO, GbE/10GbE/40GbE or Aurora backplane connections. General purpose I/O signals, e.g. for trigger, are routed to the front panel that also contains 8 LED/Bi-color. ADC and DAC have a common sampling clock, which can be fed from front panel (Direct RF Clock) or from PLL locked to a 10/100 MHz reference clock sourced from front panel or backplane. Sampling clock selection is by ordering option. The VPX570 includes platform health management/monitoring capability using VadaTech's field-proven tier 2 platform management software. An on-board management controller has the ability to access board sensors and manage FPGA image updates.

The unit is also available in a range of temperature and shock/vib specifications per ANSI/VITA 47, up to V3 and OS2.

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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