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VadaTech Announces an Integrated Processor/FPGA based on NXP LX2160A

Henderson, NV – August 28, 2024, 2024 – VadaTech, a leading manufacturer of integrated systems, embedded boards, enabling software and application-ready platforms, announces the VT977. The VT977 is based on the NXP LX2160A CPU with sixteen Arm Cortex-A72 cores. The processor interfaces to 8 GB of DDR-4 memory with ECC. The processor interfaces to the AMD FPGA XCZU15EG via x4 PCIe lanes on the PS side and 40GbE via the PL side. The FPGA PS side interfaces to 8GB of DDR-4 memory with ECC and the PL side of the FPGA interfaces with 8 GB of DDR-4 memory.

The unit provides dual GbE to the NXP LX2160A CPU, single GbE to the PS side of the FPGA, and additional 8x optical interfaces which are protocol agnostic (protocol such as 1GbE, 10GbE, 40GbE, Aurora, etc) to the PL side of the FPGA. The module has a MIL-STD-1553B interface to the FPGA as well as providing I/O such as RS-422, discrete/isolated I/O, and 2x ARINC 429 interfaces. The CPU utilizes an M.2 storage module for mass storage. The VT977 operates from +28V input (16V-36V) and has an onboard filter to meet MIL-STD-461E, Transient protection MIL-STD-704A/E/F and MIL-STD-1275A/B/D.

The VT977 (based plate cooling) conforms to environmental standards MIL-STD-810G, methods 509.5, 508.6, 510.5, 500.5, 514.6, 501.5, 502.5, 503.5, 516.6, 512.5 and 511.5. Linux OS is standard on the VT977. Please consult with VadaTech Sales to discuss 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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