

Concurrent Technologies announces a 3U VPX™ computational solution in conjunction with Eizo Rugged Solutions, Inc.

BA 9TR/301-RCx is an innovative product for space limited, computationally intensive tasks as it combines a high performance Eizo Rugged Solutions' GPGPU with one of Concurrent Technologies' Intel® processor based modules. Unlike most other single slot solutions available on the market, BA 9TR/301-RCx is designed to maximize GPU resources delivering 2.29 TFLOPs of floating-point performance for CUDA® 6.1 or OpenCL™ 1.2 applications. The GPGPU element is mated with a quad-core Intel® Xeon® processor E3-1505L v5 and these are both packaged within a single 3U VPX slot in a conduction-cooled frame that is designed to meet an operating temperature range of -40°C to +85°C. This single slot combination is one of the most highly optimized GPGPU solutions on the market for Size, Weight, Power and Cost (SWaP-C).

The GPGPU element of BA 9TR/301-RCx is an NVIDIA® GeForce® GTX 1050 Ti device based on the NVIDIA® Pascal™ GP107 graphics processor with 768 CUDA® cores and 4GB GDDR5. This is tightly coupled via a x8 PCI Express® link to the CPU element which is a quad-core Intel® Xeon® processor E3-1505L v5 with 16GB DDR4 memory and a 64GB Flash disk. Three independent display interfaces are available via the rear VPX connectors along with two Gigabit Ethernet, two USB, two RS-232 serial and two SATA ports for I/O connectivity. In addition, up to x8 PCI Express lanes are available for connection to other VPX cards. Support is provided for both Linux® and Windows® operating systems.

Glen Fawcett, CEO of Concurrent Technologies, commented: "By matching our experience in designing best in class Intel processor based boards with Eizo Rugged Solutions' long standing GPGPU capabilities, we can provide an innovative solution for high computational performance within a very small space envelope. BA 9TR/301 is designed for rugged applications and is available to order today as a conduction-cooled variant."

Selwyn Henriques, CEO of Eizo Rugged Solutions added: "We have been a pioneer in providing video, graphics, encoding and recording solutions for nearly three decades. Responsiveness has been the key to our success and this combined product was conceived to meet customer needs for better GPGPU capability with the addition of a CPU management engine all within a single slot."