

3U VPX System with a High-Performance Processor and Four Peripheral Slots

Concurrent Technologies launches SY TR2/525, a 3U VPX™ development system complete with an 8 or 12-core computing board that has a direct PCI Express® link to four slots for additional peripheral boards. The system is suitable for those applications that require a computer board closely coupled to FPGA and/or GPU boards with dedicated communication pipes capable of 3.9GB/s bandwidth. Alternatively, SY TR2/525 is a cost-effective solution for applications which require a computer board and up to four I/O boards as it removes the need for a PCI Express fabric switch board. A rear transition module with two 10 Gigabit Ethernet uplinks is provided with the computer board for ease of communication to external systems. The system is supplied with an AC power supply and cooling fans. By default, each slot supports an air-cooled board but can be modified to support a conduction-cooled board using a pair of optional rails.



The supplied computer board is based on an Intel® Xeon® processor D-1500 with up to 64GB of soldered Error Correcting Code (ECC) DDR4 memory to enable demanding applications to run effectively. The computer board can support a variety of local storage devices including a 128 GB SATA Flash Disk module, a 2.5-inch SSD or two M.2 modules. The M.2 modules have PCI Express connections and utilize the NVMe™ protocol for excellent performance. Concurrent Technologies can supply a range of M.2 modules suitable for use in rugged and extended temperature operating environments. M.2 modules with encryption capability for more secure applications can also be supplied.

Glen Fawcett, CEO of Concurrent Technologies, commented:

"One of our aims is to make it easier for customers to use our VPX processor boards in a cost effective way. This solution has separate, high bandwidth connections between the processor and up to four peripheral boards that would previously have required a switch."