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Product Brief

TRC100 ISAbus Real-Time Processor Card

Supercharge your PC-based servo control and data acquisition applications with Trident's real-time processor card and daughterboard I/O. This reconfigurable real-time coprocessor can be used as either a smart, high-density I/O card or as a servo controller to free up the main CPU for other tasks. As a smart I/O card, the functionality of four separate I/O boards can be installed in a single slot! And the onboard processor can perform sequencing and preprocessing operations on the raw data to present the data format you need, when you need it. As a servo controller, the TRC100's local I/O bus allows the entire control cycle -- from sensor input to control algorithm to actuator output -- to proceed without stealing a single microsecond of time from the PC's CPU or system bus.

The **TRC100 ISAbus Real-Time Processor Card** is a high-performance single-board computer with a local I/O bus. The CPU is based on the MIPS R3000 architecture and the four I/O slots are compatible with the industry-standard IndustryPack™ bus. Any combination of over thirty different I/O daughterboards from a number of different vendors can be attached to the local bus, saving slots, bus cycles, and CPU time. The processor comes standard with two RS-232 serial ports and is configurable for 1 - 4 megabytes of RAM and a floating-point coprocessor. A unique dual-space memory map even takes advantage of several EISAbus extensions where applicable.

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