CAST Rolls Four Cores

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Dec 14, 2000 --- CAST Inc. of Woodcliff Lake, N.J., today has taken the wraps off four additions to its family of intellectual property cores targeted at electronic design. The cores, the C8237 DMA controller, C8254 programmable timer/counter, C8259 AS synchronous programmable interrupt controller and C8279 programmable keyboard/display interface, further expand the company's line of products and services revolving around 8-bit and 16-bit MPU-based systems.

"Mainstream designers need workhorse cores like these," said Hal Barbour, president of CAST, in a statement. "DMA and interrupt controllers are common in many systems, and designers can easily integrate these with our timer/counter for popular applications like a PCI-to-ISA bridge."

The cores are available now in synthesizable source code or optimized for Altera and Xilinx programmable devices. The cores are reusable, verified by comparison with actual devices in a hardware modeler and ready-to-use, CAST said.

The C8254 can be used as an event counter, elapsed time indicator, programmable one-shot, as well as many other applications. The C8237 is compatible with the Intel 8237 DMA chip and features three ways to transfer data. The C8259AS is cascadable and compatible with the Intel 386EX. It is also available in an asynchronous version (CAST C8259A) that matches the original Intel device. The C8279 offers replacement compatibility with an Intel device in widespread use.