

Editorial Contact: Mark Hur, Pico Computing mhur@picocomputing.com

ExpressCard/34 Accelerator Module Offered with Xilinx Virtex-6 FPGA

Compact module enables scalable FPGA acceleration of parallel computing algorithms

Seattle, WA – January 19, 2010 – Pico Computing today announced the first customer deployment of its new E-18 development card, a compact, laptop compatible solution for FPGA development and for scalable parallel computing.

The Pico E-18 card is packaged in a compact ExpressCard/34 format compatible with many modern laptop computers, making it ideal for FPGA algorithm prototyping and deployment. Applications for the E-18 range from digital signal processing, encryption, image and video processing, to bioinformatics and low-latency financial data handling.

"The E-18 was developed as a next-generation replacement for our popular E-16 ExpressCard product," said Mark Hur, Pico Computing Director of Sales and Marketing. "The E-18 is an ideal platform for algorithm prototyping, and can also be deployed as a stand-alone embedded device or as part of an FPGA computing cluster."

The first-generation E-18 card can be equipped with a Xilinx Virtex-6 LX75T or LX130T FPGA device. 128MB of DDR3 memory are provided on the card, along with 64MB of Flash memory for on-card storage of FPGA bitmaps. Software tools and APIs compatible with Windows and Linux are provided for host-to-card communications and for device programming.

"The Pico E-18 has proven remarkably easy to use," said Eric Jonas, Chief Engineer and co-founder of Navia Systems. "Pico's firmware and drivers greatly simplify the creation of hardware/software interfaces. The design of the E-18 provides portability and scalability as we move our probabilistic computing algorithms from previous-generation FPGA modules onto higher density Virtex-6 FPGAs."

For high performance computing applications, up to seven Pico E-18 cards can be installed into a PCIe carrier card, and multiple carrier cards can be installed into a single 4U rack mounted chassis to create a scalable FPGA cluster.



Pico Computing E-18 Card with Xilinx Virtex-6 LX130T FPGA

About Pico Computing

Pico Computing specializes in highly integrated development and deployment platforms based on Field Programmable Gate Arrays (FPGAs). Applications for Pico Computing products include cryptography, networking, signal processing, bioinformatics, and scientific computing. For more information visit www.picocomputing.com.