

Virtex Family Provides Gigabit Capabilities for 32-Bit Fault Tolerant Ethernet Switch

by Mike Seither, Director or Public Relations, Xilinx, mike.seither@xilinx.com The million-gate Virtex XCV1000 device is used to build a two-port Gigabit switch.

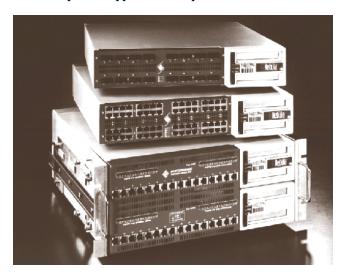
he new Virtex FPGAs are enabling Performance
Technologies, a leading supplier of high availability
networking switching solutions, to add Gigabit functionality to their Nebula® family of high performance, fault tolerant
Ethernet switching products. PTI's Ethernet switch family
includes the industry's first truly fault tolerant backbone switch,
the 32-port Nebula 8000 switch, which uses unique mirroring
techniques and a sophisticated failover architecture. Other
models in the family include the Nebula 4000 16-port
Workgroup Switch, and the Nebula 6000 64-port High Density
Departmental Switch. The Nebula family interfaces to Pulsar®,
PTI's proven ASIC-based switching fabric.

PTI's Nebula 8000 Fault Tolerant Switch is particularly unique in its class and is ideally suited for mission critical "around-the-clock" application environments such as banking, brokerage, medical, government, transaction processing, or other business and mission-critical applications.

All switch models include features such as hot swappable load-sharing power supplies, port trunking, embedded HTTP server for network management, sophisticated VLANs, Quality of Service support, advanced security/filtering, high-speed WAN access, industry standard WAN and LAN interfaces, and the standard full-duplex Gigabit uplink ports using the Virtex XCV1000 FPGA.

The Virtex family comprises the industry's first FPGAs that address system-level design issues. The Virtex devices offer a robust feature set with densities ranging from 50,000 to one million system gates. The million-gate Virtex FPGAs — an industry first at this density — and other Virtex family members are available now.

"We did an exhaustive search and found that only the Xilinx Virtex FPGAs could provide us with the performance and density necessary to add Gigabit capability to the Nebula switch family," said John Peters, vice president of development at Performance Technologies. "We were very impressed with the system-level capabilities of the Virtex FPGAs, particularly the digital delay locked loops and support for multiple I/O standards."



About Performance Technologies

Performance Technologies is a world class supplier of leadingedge, high-availability network switching and data communication solutions. The company's products include a wide range of fault tolerant Fast Ethernet switching products for business and mission-critical network environments, intelligent LAN/WAN communications controllers for high performance workstations and servers, and network interface cards for mass storage devices.

Performance Technologies targets the financial services, telecommunications, information processing, and defense industries. PTI is a publicly traded company (NASDAQ:PTIX). Visit the PTI website at www.pt.com or switching website at www.gigabit.com.

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