

**Extreme Engineering's PCI-X test fixture, XAct1000, supports 8 133MHz PCI-X slots for HASS testing.**

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Press Release  
*For Immediate Release*

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Madison, Wisconsin June 16, 2003 – As next generation servers and storage systems demand high-speed PCI-X based Host Bus Adapters (HBAs) or gigabit Ethernet add-in cards, a need developed for an innovative way to test multiple PCI-X cards simultaneously. Enter Extreme Engineering's XAct1000. XAct1000 increases PCI-X testing by 800% with increased per slot test functionality.

Based on extensive experience with PCI-X bridging, Extreme's engineers used eleven Tundra Tsi-310 PCI-X Bridge devices to fully support the eight 133MHz test slots on XAct1000. As each test slot is individually powered, XAct1000 can remain fully powered while removing or adding new cards under test without disturbing the PCI bus. Additionally, each test slot includes JTAG/Boundary scan support. To insure that the 133MHz cards under test are backward compatible with older PCI systems, XAct1000 supports variable clock adjustments including 33/66MHz for PCI and 66/100/133MHz for PCI-X.

“The Tundra Tsi310 features such as 33-133Mhz clock range and support of both PCI and PCI-X protocols make it ideal for these types of test applications,” says Wendy Burgess, Product Manger, Tundra Semiconductor.

To minimize customer risk and shorten time-to-market, the XAct1000 is controlled by a standard ProcessorPMC (PrPMC) hosting an IBM 440GP PowerPC processor. The PrPMC provides serial and Ethernet connectivity off the baseboard, supporting VxWorks or Linux software.

XAct1000 is shipping to beta customers now and has been released for production. Single unit pricing, including 440GP PrPMC, VxWorks or Linux support software and operational test code is \$7,995.

**Extreme's XAct Program** Extreme Engineering initiated the XAct Program to support customers requiring custom or derivative hardware designs. By leveraging off 100 man-years of experience and intellectual property of existing products, Extreme's XAct Program provides customers with new products in as little as eight to twelve weeks. XAct customer requirements can run the gamut from adding serial lines to an existing 6U cPCI board or developing a completely new platform like XAct1000. In all cases, Extreme Engineering works closely with customers to develop specifications, schedules and software solutions to reduce the customer's development risk and time to market.

**About Extreme Engineering Solutions, Inc.**

Extreme Engineering was founded in 2002 with the focus of building high performance processor and I/O products within the embedded computer industry. Extreme Engineering's CEO, Rob Scidmore has gathered an extremely talented group of individuals with decades of experience to develop standard and custom products that through creative design practices bridge the price/ performance concerns of the embedded market. This technical heritage has allowed for the combining of state of the art design methodologies and manufacturing techniques to significantly shorten a customers time-to-market. The goal of Extreme

Engineering is to offer cutting edge performance and flexibility in design; combining this creativity with an unparalleled level of customer support and service. For further information on products or services, please visit our website: [www.xes-inc.com](http://www.xes-inc.com).

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