

# PRESS RELEASE

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## Sundance releases a new foundation for its communication and interconnect products

SUNDANCE

**RENO, NEVADA** – October 5, 2004 - Sundance, a signal processing and reconfigurable computing solution provider for communication OEMs, today announced its new, low-cost, Fiber interconnect entry-level product. The SMT145 is a fully configurable signal carrier board that addresses OEM's requirements for extended network, and communications high throughputs. With its add-on module and interface architecture compatible to Sundance's family of signal processing and FPGA-based systems, the [SMT145](#) can handle high-speed data streams through its Fibre interface or its InfiniBand architecture.

This PCI and PCI express-based carrier system is managed by a powerful Xilinx® Virtex-II Pro™ FPGA that integrates two IBM 400MHz PowerPC™ processors, and provides the ideal environment of additional hardware implemented intellectual property (IP) cores. These include the PCI interface, as well as end user defined IP cores that can process data according to the application requirements. With its reconfigurable FPGA interconnections and interfaces, the SMT145 is a versatile carrier system that can be networked to any of Sundance's large family of DSP and FPGA-based signal processing systems.

"This high speed reconfigurable carrier system is integral to the roll-out of our latest data conversion and communication systems technology," said Flemming Christensen Managing Director of Sundance. " It opens up more opportunities and markets as communications OEMs are under intense pressure to not only keep cost down, but also support an ever-expanding number of communication interface technologies."

The core of the SMT145 is a Xilinx Virtex-II Pro FPGA that controls, processes, and manages data streams. The FPGA interfaces directly to a Fibre transceiver through a serializer and deserializer device that sits

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between the FPGA and the transceiver, providing a high throughput of up to 2Gbit/s with 8b/10b codec. In addition, OEMs can leverage the SMT145 InfiniBand® architecture through the Xilinx RocketIO™ Multi-Gigabit Transceivers. An 8Mbyte synchronous static 100/133MHz SRAM memory bank is interfaced to the Xilinx Virtex-II Pro FPGA via a 32 bit data bus, and provides a memory bandwidth of over 2Gbytes/s.

"Xilinx Virtex-II Pro FPGA technology can be of tremendous benefit for high performance digital acquisition and communication systems like Sundance," said Tim Erjavec, senior manager of Programmable Systems Marketing at Xilinx. "We understand that companies like Sundance need to get to market as quickly as possible with the latest FPGA technologies, and working with us allows them to meet their time to market objectives, and keep their focus on their customers' high performance signal processing application requirements"

The SMT145 can also be networked to other Sundance DSP and FPGA-based systems, or to the company's data acquisition and conversion modules through an on-board Sundance High-speed Bus (SHB). In addition, the SMT45 provides connectors for an add-on daughter module that can transform this carrier board into a fully integrated digital signal processing system. The PCI interface is provided by a PCI core within the FPGA. This 64-bit PCI device runs up to 66MHz and allows transfer rates of 533Mbytes/s. Optionally, a PCI Express module can be used. Pricing for the SMT145 starts at \$1,485 USD, evaluation units and volume pricing are also available.

#### About Sundance

Sundance is a UK-based, ISO 9000 Compliant, independent company headquartered Chesham, U.K., and with offices in the United States and Italy. The company designs, develops, manufactures and markets high performance signal processing and reconfigurable systems for original equipment manufacturers in the wireless and signal processing markets. Leveraging its multiprocessor expertise and experience, Sundance provides OEM with modular DSP and FPGA-based systems as well as, Data Acquisition, I/O, Communication, and interconnectivity products that are so essential to multiprocessor systems where scalability and performance are important. With over fifty different modules and carriers for PCI, cPCI VME and Stand Alone platforms, Sundance is a solution provider to semiconductor, pharmaceutical, and factory automation industries. Sundance, founded in 1989 by the current directors, is a Xilinx Xperts and MathWorks' Connection program member.

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