



Mellanox Technologies Unleashes 10Gb/sec Data Center Performance with InfiniHost

InfiniHost is the Only 2nd Generation InfiniBand Architecture HCA & TCA Device

Santa Clara, California and Yokneam, Israel, -- June 03, 2002-- Mellanox Technologies, Ltd., the leading provider of InfiniBand™ silicon, today introduced its second generation InfiniBand Host Channel Adapter (HCA) and announced shipments to OEM customers. The InfiniHost MT23108 enables InfiniBand data centers to reach new levels of performance, as the InfiniHost allows individual servers and storage devices to communicate with each other at unprecedented rates. The InfiniHost MT23108 includes dual 4X InfiniBand ports, integrated physical layer, unmatched simultaneous connection capabilities and extremely low latencies.

The InfiniHost MT23108 enables standard single and multiprocessor servers to deliver performance previously found only in high-end multiprocessor server systems. The InfiniBand architecture and InfiniHost silicon are designed to lower costs, improve reliability, scalability and overall availability of servers. Used in storage applications, InfiniHost enables storage systems to have the highest usable bandwidth links to servers. The InfiniHost device benefits communication or bridging applications, such as to the Internet, by supporting millions of simultaneous connections, helping to lower the cost of web centric communication.

“The InfiniBand industry has made great progress towards delivery of InfiniBand solutions starting in 2003.” said Jim Pappas, director of initiative marketing for Intel’s Enterprise Platform

Group. "Intel continues to support InfiniBand Architecture and will work closely with Mellanox on their delivery of the second-generation InfiniHost product to help fuel the delivery of InfiniBand enabled Intel architecture servers to the marketplace."

"The InfiniBand architecture has the potential to offer tremendous flexibility benefits to servers in the future," said John Brennan, Vice President of Hardware Engineering - Enterprise Systems Products of Sun Microsystems. "We have had a close look at the InfiniHost architecture and are confident that this device has all the hardware features needed to advance the InfiniBand architecture to the next level."

"We designed the InfiniBand Architecture with the vision to bring increased performance and lower cost of ownership to server customers," said Dr. Tom Bradicich, IBTA co-chair and CTO of IBM's xSeries Server Group. "We welcome second generation InfiniBand devices to the market, such as Mellanox's InfiniHost HCA, that advance the state of the art of InfiniBand technology and help realize this vision."

"Mellanox continues to drive the InfiniBand market by being the only company to ship a second generation HCA device that is based upon requirements defined by our first generation InfiniBridge customers," said Eyal Waldman, chairman and CEO of Mellanox Technologies, LTD. "InfiniHost is the culmination of years of work, dating back to the NGIO specification. The vision was to provide the industry with a true standard RDMA clustering interconnect; the InfiniBand architecture is that specification and InfiniHost is the part that delivers it."

"InfiniHost features the robustness, flexibility and performance required for the next generation of 10 Gb/s InfiniBand products," said Frank Bellucci, vice president of business development for JNI Corporation (NasdaqNM: JNIC). "It is an excellent example of second generation of HCA/TCA silicon and will play a central role in JNI's next-generation of InfiniBand products."

The InfiniHost MT23108 is a single chip, dual-port 10Gb/s InfiniBand host or target channel adapter with a PCI-X interface and integrated physical layer serializer/deserializer (SerDes) interfaces. It is designed to be compatible with version 1.0a of the InfiniBand Architecture specification. The device is based on an HCA core that is capable of full wire speed transmissions over InfiniBand links. The core features a full hardware implementation of the InfiniBand architecture

memory protection and translation tables with hardware transport, drastically reducing CPU overhead so host processors spend cycles on applications and not on communications.

This advanced design achieves incredible performance even with small packets and features InfiniBlast technology that achieves superb latencies - the lowest in the industry.

InfiniHost offers industry leading scalability and supports up to 16M Queue Pairs (QPs) or simultaneous connections and external memory support for up to 16GB of DDR memory. For TCA applications, an Application Specific Programmable Packet Engine (ASPPE) allows application specific packet processing for InfiniBand to Fibre Channel or Ethernet routing applications. In these applications packet payloads can be stored in local memory and forwarded directly from the channel adapter and not from the server's host memory; thus resulting in tremendous performance benefits.

InfiniHost MT23108 based reference boards are available now, priced at \$5000 each, and are shipping to OEM partners. General availability of the MT23108 device will be announced at a later date.

About Mellanox

Mellanox is the leading supplier of InfiniBand semiconductors, providing switches, Host Channel Adapters, and Target Channel Adapters to the server, communications and data storage markets. In January 2001, Mellanox Technologies delivered the InfiniBridge MT21108, the first 1X/4X InfiniBand device to market, and is now shipping second-generation InfiniScale silicon. The company has raised more than \$89 million to date and has strong corporate and venture backing from Bessemer Venture Partners, Dell Computer, Intel Capital, Raza Venture Management, Sequoia Capital, Sun Microsystems, US Venture Partners, Vitesse and others. In May 2002, Mellanox was selected by the Red Herring Magazine as one of the 50 most important private companies in the world and to Upside Magazine's Hot 100 Companies in the semiconductor category for 2002. Mellanox currently has more than 200 employees in multiple sites worldwide. The company's business operations, sales, marketing and customer support are headquartered in Santa Clara, CA; with the design, engineering, software, system validation, and quality and reliability operations based in Israel.

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