



Mellanox Technologies Announces 480 Gb/sec Single Chip 3rd Generation InfiniBand Switch Device

InfiniScale III™ Device is Highest Performing Integrated Switch Available; Supports Both 10 and 30 Gb/sec Ports

SANTA CLARA, CALIFORNIA, and YOKNEAM, ISRAEL - Nov 10, 2003 - Mellanox® Technologies Ltd., the leader in InfiniBandSM solutions, today announced the InfiniScale™ III single chip InfiniBand switch device offering 480 Gb/sec total bandwidth. The third generation device features 24 integrated 10Gb/sec full duplex InfiniBand ports capable of non-blocking full wire speed operation. The device is the first to offer 12X InfiniBand link aggregation supporting 8-Ports at 30Gb/sec. This level of integration advances the state of the art in fabric interconnects, delivering the highest performing commercially available single-chip solution, far surpassing the port density of any other 10 Gb/sec technology.

"This 3rd generation device is a key enabler for 10 Gb/sec communication throughout all computing markets," said Eyal Waldman, CEO for Mellanox. "With 24-Ports integrated into a single device, the InfiniScale III replaces seven of the existing 10Gb/sec InfiniBand devices. With this level of integration, the device enables new design capabilities for server blades, embedded markets, enterprise database clustering, storage, as well as stand alone InfiniBand switches."

The InfiniScale III is the third generation in the Mellanox InfiniBand switch product line and complements a broad product line of InfiniBand host and target channel adapters. The InfiniScale III features 24 non-blocking full wire speed 10Gb/sec (4X) bi-directional ports. The flexible device allows each group of three 10Gb/sec ports to be logically bonded into a single 30Gb/sec (12X) port. The InfiniScale III is the first commercially available device ever, to offer 30Gb/sec InfiniBand performance.

Advanced features include on-chip intelligence, management agents, advanced quality of service and flow control mechanisms, and programmable forwarding and congestion management capabilities. The architecture features a non-blocking packet switch design with an advanced scheduling engine that provides InfiniBand compliant cut-through latencies of less than 200 nanoseconds.

The device integrates the entire physical layer of ninety-six 2.5 GHz SerDes enabling a 24-port switch to be built from a single device. The device consumes less than 20 Watts, and is thus ideal for power sensitive applications such as server blade interconnects, modular communications, embedded designs and storage platforms.

The InfiniScale III fully supports remote direct memory access (RDMA) and the entire suite of InfiniBand software, delivering full kernel bypass capabilities. InfiniBand is the only technology delivering these capabilities for the complete range of data center applications.

Availability

The InfiniScale III is currently available to OEM partners and is priced at \$949 at 1K quantities. In addition, the MTS2400 switch reference design featuring 24 copper ports at 10 Gb/sec in a compact 1U form factor is available to OEM and reseller partners. (See related press release.)

About InfiniBand

InfiniBand is the only 10 Gb/sec ultra low latency clustering, communication, storage and embedded interconnect in the market today. InfiniBand, based on an industry standard, provides the most robust data center interconnect solution available with reliability, availability, serviceability and manageability features designed from the ground up. These parameters greatly reduce total cost of ownership for the data center. Low cost InfiniBand silicon that supports 10 Gb/sec RDMA transfers is shipping today providing eight times the bandwidth of Ethernet and three times the bandwidth of proprietary clustering interconnects. With an approved specification for 30 Gb/sec, InfiniBand is at least a generation ahead of competing fabric technologies today and in the foreseeable future.

About Mellanox

Mellanox is the leading supplier of InfiniBand semiconductors, providing complete solutions including switches, host channel adapters, and target channel adapters to the server, communications, data storage, and embedded markets. Mellanox Technologies has delivered more than 100,000 InfiniBand ports over two generations of 10 Gb/sec InfiniBand devices including the InfiniBridge, InfiniScale and InfiniHost devices. Mellanox InfiniBand interconnect solutions today provide over eight times the performance of Ethernet, and over three times the performance of proprietary interconnects. The company has strong backing from corporate investors including Dell, IBM, Intel Capital, Quanta Computers, Sun Microsystems, and Vitesse as well as, strong venture backing from Bessemer Venture Partners, Raza Venture Management, Sequoia Capital, US Venture Partners, and others. The company has major offices located in Santa Clara, CA, Yokneam and Tel Aviv Israel.

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