



SOLUTION BRIEF

IBM's iDataPlex with Mellanox® ConnectX® InfiniBand Adapters

Dual-Port ConnectX 20 and 40Gb/s InfiniBand PCIe Adapters

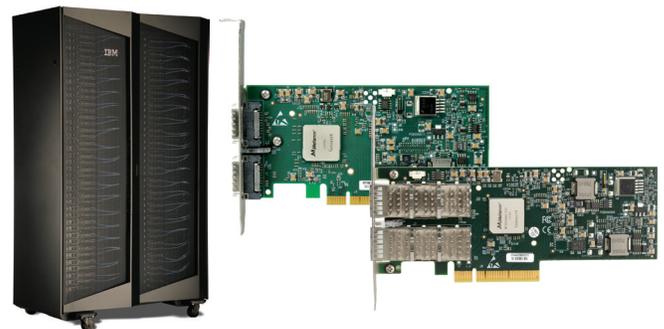
Data center cost structures are shifting, from equipment-focused to space-, power- and personnel-focused. Total cost of ownership and green initiatives are major spending drivers as data centers are being refreshed. Topping off those challenges is the rapid evolution of information technology becoming a competitive advantage through business process management and deployment of service oriented architectures. I/O technology plays a key role in meeting many of the spending drivers – provisioning capacity for future growth, efficient scaling of compute, LAN and SAN capacity, reduction of space and power in the data center helping reduce TCO and doing so while enhancing data center agility.

IBM's iDataPlex with Mellanox ConnectX InfiniBand adapters offers a solution that is eco-friendly, flexible, responsive, and positioned to address the evolving requirements of Internet-Scale and High-Performance

Unprecedented Performance, Scalability, and Efficiency for Cloud Computing

Fueled by the dramatic growth in business collaboration, connected devices, real-time data streams, and Web 2.0 applications such as streaming media and entertainment, social networking and mobile commerce, the companies behind the Internet are relying on massive, sprawled out data centers that are pushing the limits of power and space available to them.

The IBM iDataPlex addresses a host of next generation business challenges, offering enterprises an optimal approach to meet the technology needs of companies that operate massive data centers with tens of thousands of servers. The IBM iDataPlex with highly-scalable Mellanox ConnectX 20 and 40Gb/s InfiniBand connectivity enables extreme computing, real-time response, I/O consolidation and power savings for cloud computing and for a broad range of enterprise application environments including financial services, government and education, industrial design and manufacturing, life sciences, and web serving and collaboration.



IBM iDataPlex and ConnectX InfiniBand Adapter Cards

High-Performance for the Flexible Data Center

Scientists, engineers, and analysts eager to solve challenging problems in engineering, financial markets, and the life and earth sciences rely on high-performance systems. In addition, with the use of multi-core CPUs, virtualized infrastructures and networked storage, users are demanding increased efficiency of the entire IT compute and storage infrastructure. ConnectX InfiniBand adapters deliver the highest data throughput and lowest latency of any industry-standard PCI Express adapter available today, and provide I/O consolidation of clustering, communication, storage and management traffic onto a single InfiniBand fabric reducing both upfront capital costs and long term TCO.

The IBM iDataPlex combined with ultra-low latency Mellanox ConnectX InfiniBand adapters can provide you with industry-leading connectivity and scalability for your Internet-Scale and High-Performance Data Center.

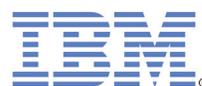
Ordering Information

Mellanox ConnectX 40Gb/s Adapter Card (QSFP):
IBM Part# 46M2203 (1-port), 46M2199 (2-ports)

Mellanox Dual-Port ConnectX 20Gb/s Adapter Card:
IBM Part# 44R8728



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