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Mellanox and the University of Cambridge Collaborate to Develop Computing Platform for the Square Kilometer Array (SKA) Project

Development clusters based on Mellanox Virtual Protocol Interconnect® solutions provide end-to-end Ethernet and InfiniBand connectivity on the same wire

SUNNYVALE, Calif. & YOKNEAM, Israel--(BUSINESS WIRE)-- Mellanox® Technologies, Ltd. (NASDAQ:MLNX), a leading supplier of high-performance, end-to-end interconnect solutions for data center servers and storage systems, today announced a collaboration with the University of Cambridge for the Square Kilometer Array (SKA) project. The University of Cambridge selected the company's Virtual Protocol Interconnect (VPI) solution, consisting of ConnectX®-3 adapter cards, SwitchX®-2 based SX1036 36-port switches and cables, to provide it with leading interconnect performance and protocol flexibility for SKA test-bed clusters. The University of Cambridge and Mellanox will use the compute clusters for various development projects for the SKA project, an international effort to build the world's largest radio telescope.

Delivering seamless data communication over FDR 56Gb/s InfiniBand and 40/56Gb/s Ethernet, Mellanox's VPI allows customers to optimize their network for specific workloads and connectivity based on their interconnect fabric of choice across a common infrastructure. This flexibility is critical to allow customers to adapt to changing user and application requirements.

"The computing requirements of the SKA exceed those of the fastest supercomputers, as the data processing and amounts of data generated by combining the signals from our antennas compete with that generated by the entire Internet," said Dr. Paul Calleja, director HPCS Cambridge University. "Utilizing Mellanox's protocol-flexible VPI solutions in the University of Cambridge supercomputer, we are able to run our applications over either Ethernet or InfiniBand on a single-wire to enable best application performance without the need for multiple networks or topologies."

"The SKA radio telescopes are capable of generating over 960 million Gigabytes of data a day. This enormous amount of data collection requires a highly scalable, performance interconnect infrastructure with flexibility to provide best application performance over any converged network protocol," said Gilad Shainer, vice president of marketing at Mellanox Technologies. "With Mellanox's industry- and performance-leading VPI solution, the University of Cambridge can provide the SKA with a computing infrastructure that can be specifically tuned to its advanced signal processing and computing needs."

Available today, Mellanox's leading end-to-end VPI technology includes the SwitchX®-2 based SX6036 switches, ConnectX®-3/ConnectX-3 Pro 10/40/56Gb/s adapters, management and acceleration software, and cables.

Supporting Resources:

- Learn more about Mellanox's end-to-end [10 Gigabit Ethernet](#) and [40/56 Gigabit Ethernet](#) solutions
- Follow Mellanox on [Twitter](#), [Facebook](#), [Google+](#), [Linked-In](#), and [YouTube](#)
- [Join the Mellanox Community](#)

About Mellanox

Mellanox Technologies is a leading supplier of end-to-end InfiniBand and Ethernet interconnect solutions and services for servers and storage. Mellanox interconnect solutions increase data center efficiency by providing the highest throughput and lowest latency, delivering data faster to applications and unlocking system performance capability. Mellanox offers a choice of fast interconnect products: adapters, switches, software, cables and silicon that accelerate application runtime and maximize business results for a wide range of markets including high performance computing, enterprise data centers, Web 2.0, cloud, storage and financial services. More information is available at www.mellanox.com.

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