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World's First 2 Petaflop Deep Learning System, NVIDIA DGX-2, Features Mellanox InfiniBand and Ethernet Solutions

DGX-2 System Includes Eight Network Adapters Supporting both EDR InfiniBand and 100 Gigabit Ethernet Connectivity, Doubling the Network Performance

SUNNYVALE, Calif. & YOKNEAM, Israel--(BUSINESS WIRE)-- Mellanox Technologies, Ltd. (NASDAQ: MLNX), a leading supplier of high-performance, end-to-end smart interconnect solutions for data center servers and storage systems, today announced that the company's InfiniBand[®] and Ethernet solutions have been chosen to accelerate the new NVIDIA[®] DGX-2™ artificial intelligence (AI) system. DGX-2 is the first 2 Petaflop system that combines sixteen GPUs and eight Mellanox ConnectX[®] adapters, supporting both EDR InfiniBand and 100 gigabit Ethernet connectivity. The technological advantages of the Mellanox adapters with smart acceleration engines enable the highest performance for AI and Deep Learning applications.

The embedded Mellanox network adapters provide overall 1600 gigabit per second bi-directional data throughput, which enables scaling up AI capabilities for building the largest Deep Learning compute systems. The DGX-2 platform, together with the DGX-1 platform that is also based on Mellanox network adapters, provide a rich set of options for AI companies, users and developers to build the next generation of AI products and services.

"We are excited to collaborate with NVIDIA and to bring the performance advantages of our EDR InfiniBand and 100 gigabit Ethernet to the new DGX-2 Artificial Intelligence platform," said Gilad Shainer, vice president of marketing at Mellanox Technologies. "Doubling the network throughput as compared to previous systems to provide overall bi-directional 1600 gigabit per second data speed enables the DGX-2 platform to analyze growing amounts of data, and to dramatically improve Deep Learning application performance."

"The DGX-2 is the first single server capable of delivering two petaflops of computational power that combines 16 fully interconnected GPUs for 10X the deep learning performance," said Jim McHugh, VP and GM of Deep Learning Systems at NVIDIA. "Mellanox InfiniBand and Ethernet solutions enable us to give maximum flexibility and performance to customers who build out large-scale clusters of DGX-2 systems."

Supporting Resources:

- | Learn more on Mellanox solutions for [Artificial Intelligence and Deep Learning](#)
- | Follow Mellanox on [Twitter](#), [Facebook](#), [Google+](#), [LinkedIn](#), and [YouTube](#)
- | [Join the Mellanox Community](#)
- | [Learn more about NVIDIA DGX-2](#)

About Mellanox

Mellanox Technologies (NASDAQ: MLNX) is a leading supplier of end-to-end Ethernet and InfiniBand smart 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 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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