Mellanox Liquid Cooled HDR 200G Multi-Host InfiniBand Adapters Accelerate Lenovo's Most Advanced Liquid Cooled Server Platform

Providing World's Leading Performance and Energy Efficiency for High Performance Computing and Artificial Intelligence Applications

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 the availability of liquid cooled HDR 200G Multi-Host InfiniBand adapters for the Lenovo ThinkSystem SD650 server platform, featuring Lenovo Neptune™ liquid cooling technologies. This platform is ideal for high performance computing (HPC), artificial intelligence (AI) and scalable cloud infrastructures, utilizing Mellanox In-Network Computing acceleration engines in an energy efficient best-of-class server. With this solution, customers can now experience the fastest networking speeds deployed in a shared configuration, allowing them to save on both CAPEX and OPEX buying fewer networking components, while still running workloads much quicker. Additionally, Lenovo's Neptune liquid cooling technologies reduce energy consumption, allowing customers to operate an extremely energy efficient high performance data center.

"Our collaboration with Lenovo delivers a scalable and highly energy efficient platform that delivers nearly 90% heat removal efficiency and can reduce data center energy costs by nearly 40%, and takes full advantage of the best-of-breed capabilities from Mellanox InfiniBand, including the Mellanox smart acceleration engines, RDMA, GPUDirect, Multi-Host and more," said Gilad Shainer, Senior Vice President of Marketing at Mellanox Technologies. "HDR 200G InfiniBand provides the highest performance and scalability for HPC and AI workloads and when combined with the Lenovo ThinkSystem SD650 Server creates a world leading solution for compute and storage infrastructures."

"As we embark on the Exascale era of HPC, the interconnect fabric will be a key pillar of Lenovo's â€˜Exascale to Everyscale' initiative that seeks to bring the innovation of Exascale to HPC systems of all sizes," said Scott Tease, Executive Director of HPC & AI, Lenovo DCG. "This new Mellanox HDR 200G InfiniBand solution provides customers faster networking speeds, and when paired with the industry leading Lenovo ThinkSystem SD650 warm water cooled server, increases performance while reducing energy consumption – making it ideal for demanding HPC workloads. We already have customers who are implementing this shared IO solution today, taking full advantage of this comprehensive, energy efficient system delivering unrivaled performance and economics at scale across the cluster."

Mellanox HDR InfiniBand end-to-end solution, including ConnectX-6 adapters, Quantum switches, the upcoming HDR BlueField system-on-a-chip (SoC), and LinkX cables and transceivers, delivers the best performance and scalability for HPC, cloud, artificial intelligence, storage, and other applications, providing users with the capabilities to enhance their research, discoveries and product development.

Additional Resources:

- Learn more about [Mellanox Quantum™ HDR 200Gb/s InfiniBand Smart Switches](#)
- Learn more about [ConnectX-6 HDR 200Gb/s InfiniBand adapters](#)

Alex Shapiro
Enterprise Networking
1-415-608-5044
ashapiro@nvidia.com