

In-Network Computing and Security Offloads

Machine learning applications are based on training deep neural networks, which require complex computations and fast and efficient data delivery. Besides doubling the speed and providing the higher radix switch, Mellanox's new HDR 200G switch and adapter hardware supports in-network computing (application offload capability) and in-network memory. Mellanox's HDR InfiniBand solution offers offloads beyond that of RDMA and GPU Direct™ to computation for higher level communication framework collectives. This dramatically improves neural network training performance and overall machine learning applications, while saving on CPU cycles and increasing the efficiency of the network.

