

Interconnect Your Future with Mellanox

Paving the Road to Exascale

Forum Teratec - June 2017



Mellanox Overview



Company Headquarters

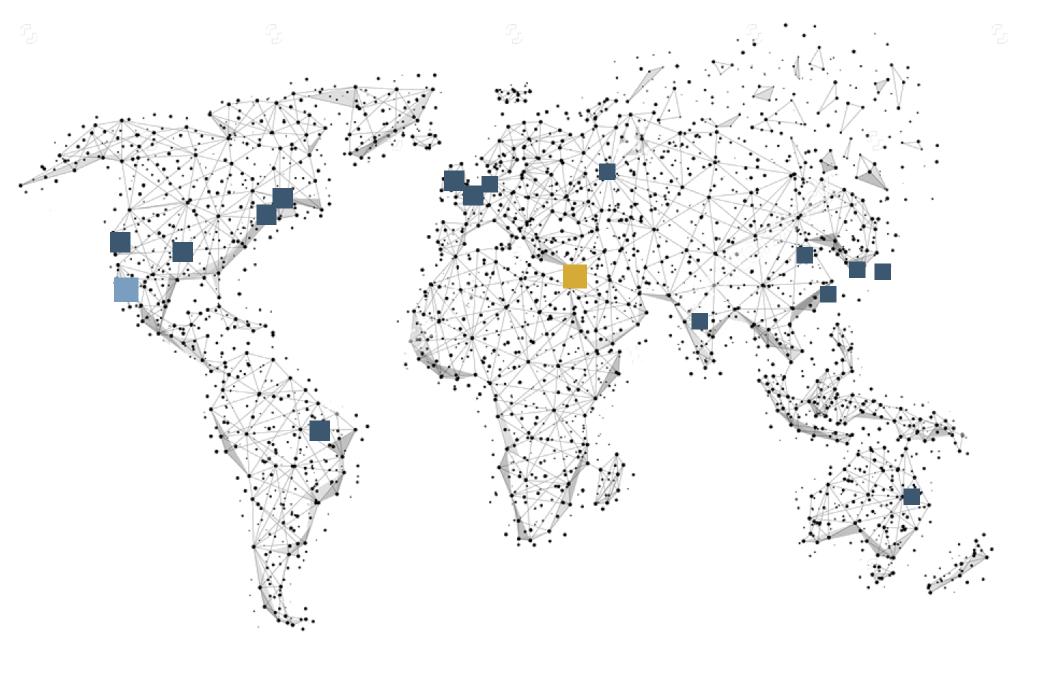
- Yokneam, Israel
- Sunnyvale, California
- Worldwide Offices

~2,900

Employees worldwide

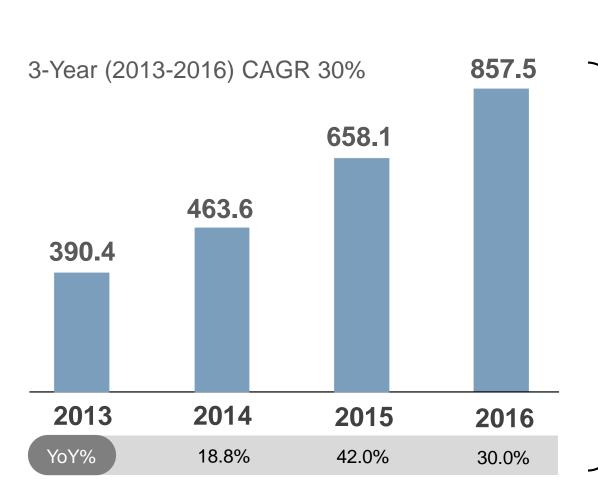


Ticker: MLNX



Approaching \$1 Billion in Annual Revenues





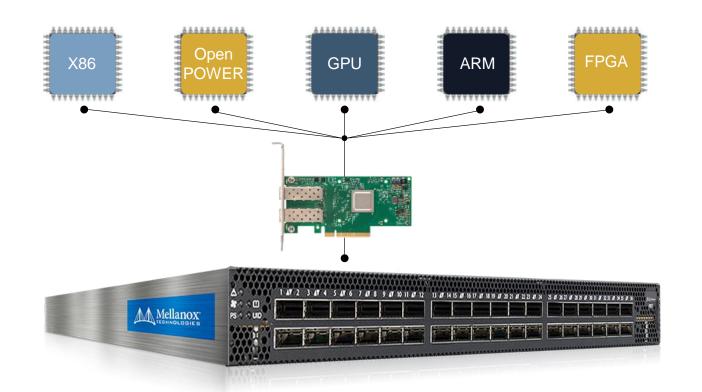
Source: Company financial statements



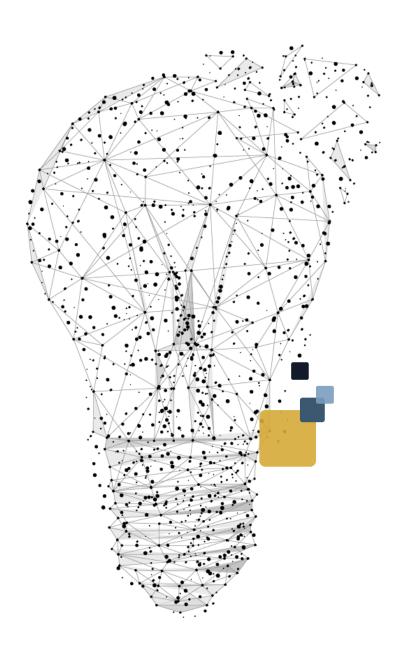
End-to-End Solutions for All Platforms



Unleashing the Power of all Compute Architectures



Highest Performance & Scalability for Power, x86, GPU, ARM & FPGA-based Compute and Storage Platforms 10, 20, 25, 40, 50, 100 & 200Gb/s Speeds

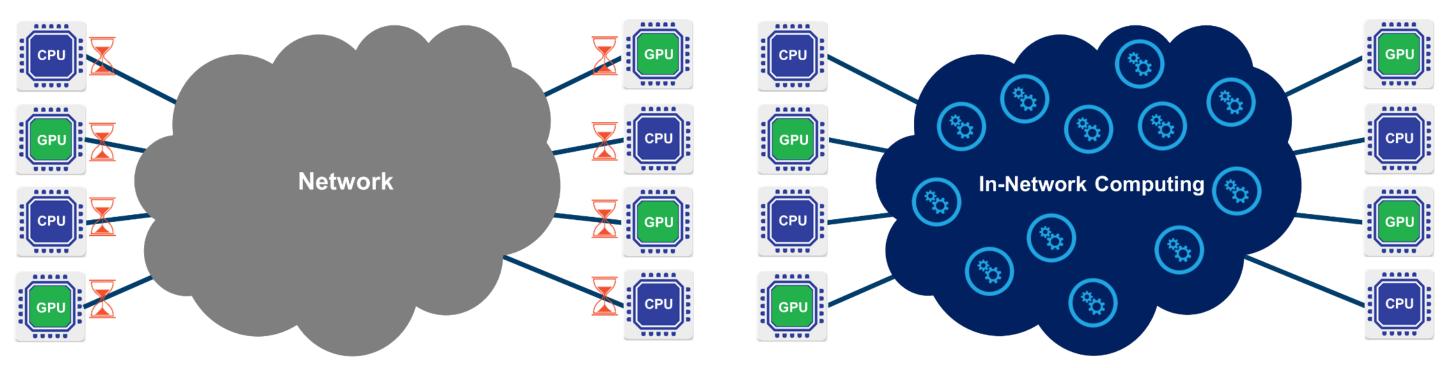


Exponential Data Growth – The Need for Intelligent and Faster Interconnect



CPU-Centric (Onload)

Data-Centric (Offload)



Must Wait for the Data
Creates Performance Bottlenecks

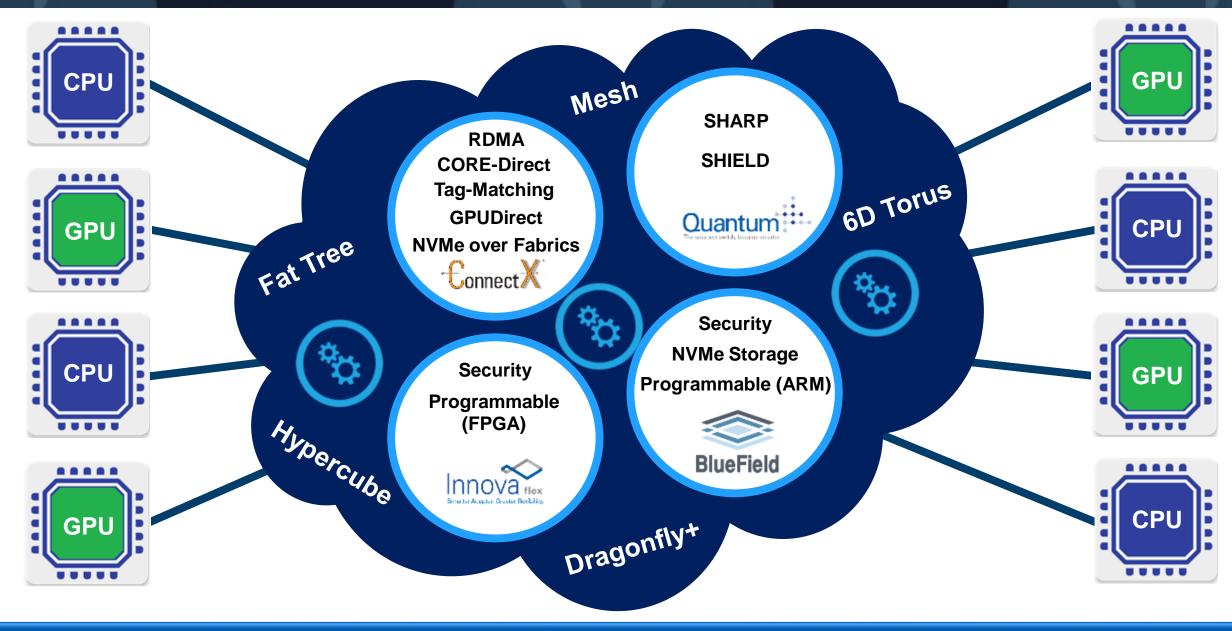


Analyze Data as it Moves!

Faster Data Speeds and In-Network Computing Enable Higher Performance and Scale

The Generation of In-Network Computing – 10X Higher Performance





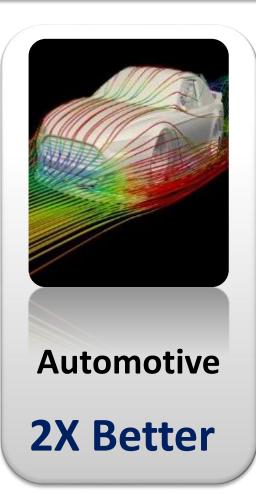
In-Network Computing Key for Highest Return on Investment

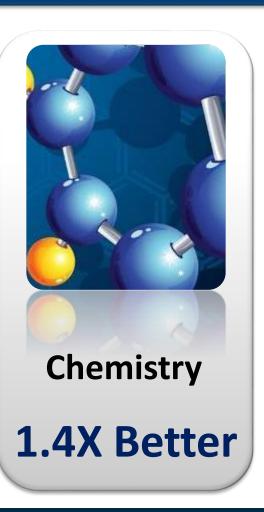
InfiniBand Delivers Best Return on Investment

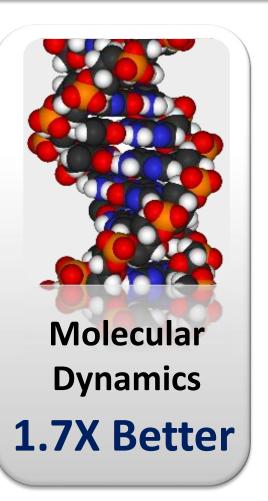


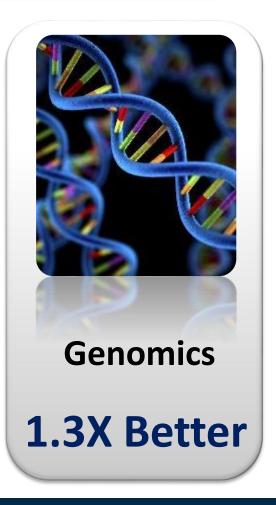
30-100% Higher Return on Investment Up to 50% Saving on Capital and Operation Expenses Highest Applications Performance, Scalability and Productivity





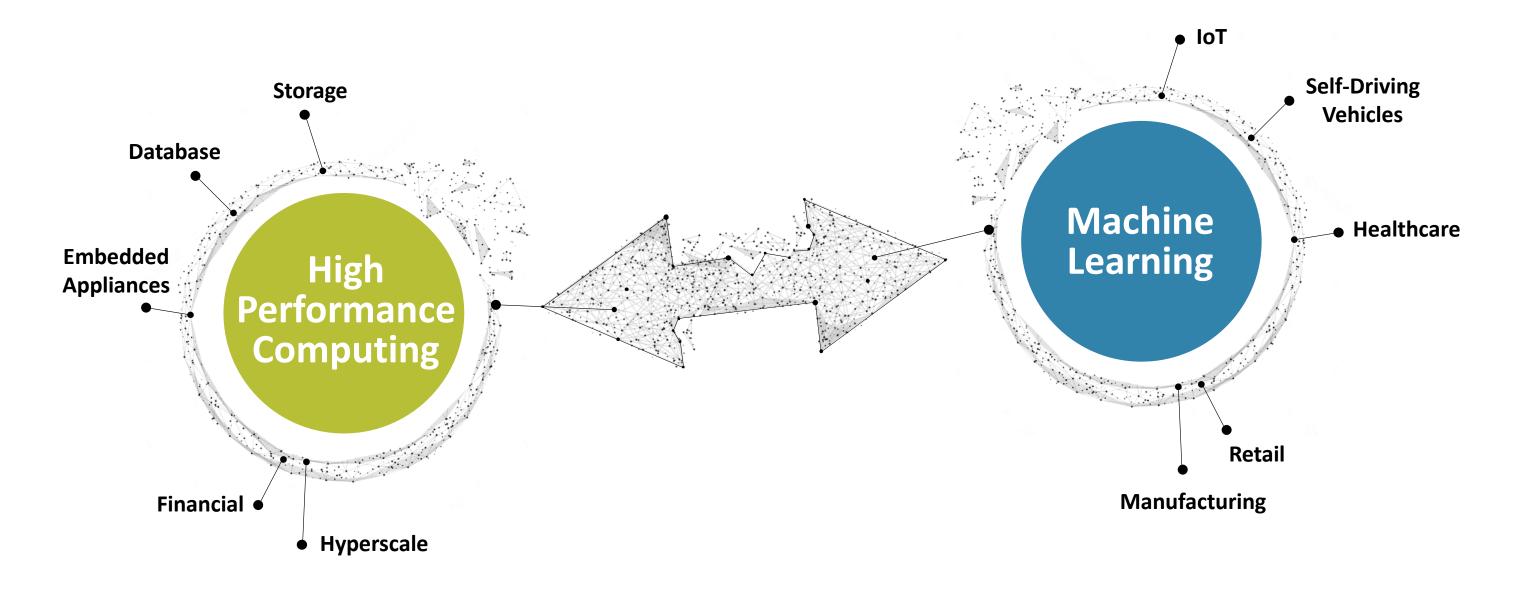






Enabling the Future of Machine Learning Applications





HPC and Machine Learning Share Same Interconnect Needs

Enabling Most Efficient Machine Learning Platforms



OCP Big Sur Artificial Intelligence Platform	OPEN Compute Project
Real Time Fraud Detection	PayPal ™
Machine Learning System with 400Gb/s	
■ 18X Speedup For Image Recognition	flickr from YAHOO!
■ 4X Speedup For Image Recognition	Baid
Data Analytics Image Recognition	JD.京东 多·快·好·省
■ World Record For Data Sort 3X Faster	Tencent腾讯

World Record For Data Sort, 3X Faster



Allowing Machine learning to Perform Critical & Real Time Decisions

Mellanox Accelerates Artificial Intelligence (AI) and Deep Learning





NVIDIA AI Supercomputer#31 on the TOP500 List



facebook.

Facebook Al Supercomputer #32 on the TOP500 List



- EDR InfiniBand In-Network Computing technology key for scalable Deep Learning systems
- RDMA accelerates Deep Learning performance by 2X, becomes de-facto solution for AI

The Advantages of HDR InfiniBand Solutions



Maximum Performance and Highest **Return on Investment**



- Higher performance
- Higher efficiency
- **Higher** scalability
- Higher speed

World's First 200G Switch

World's First 200G Adapter



Thank You

