



Interconnect Your Future

Paving the Road to Exascale

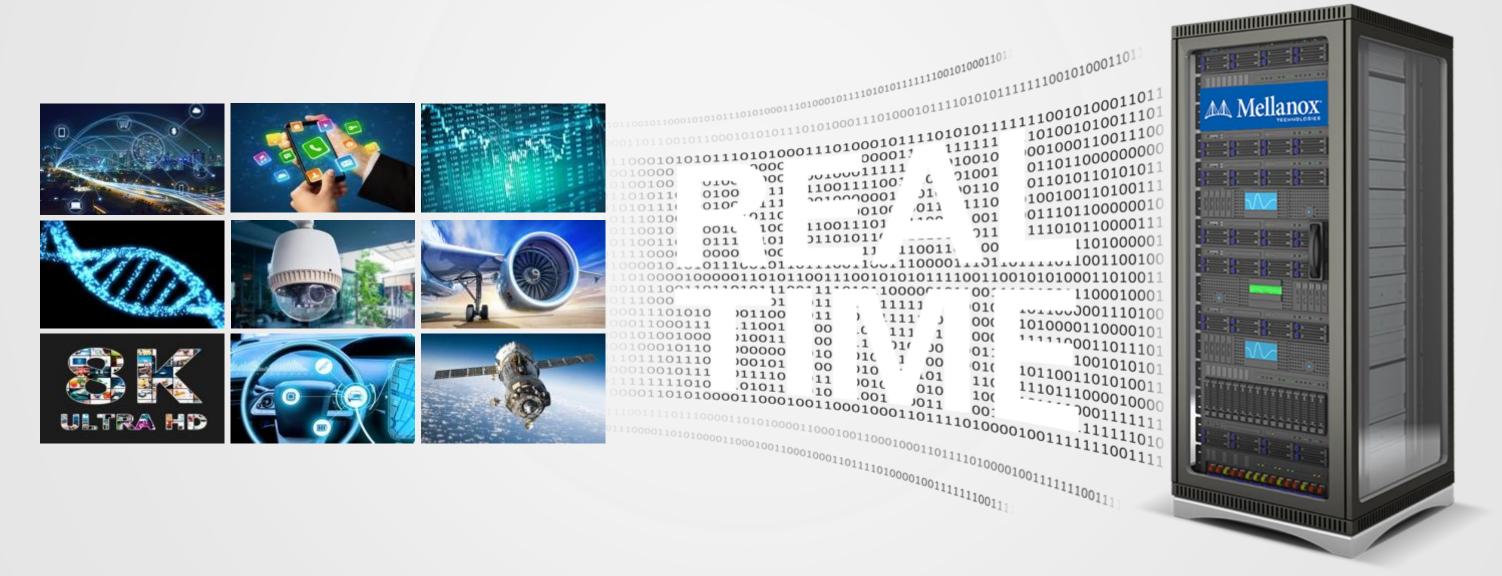
September 2018





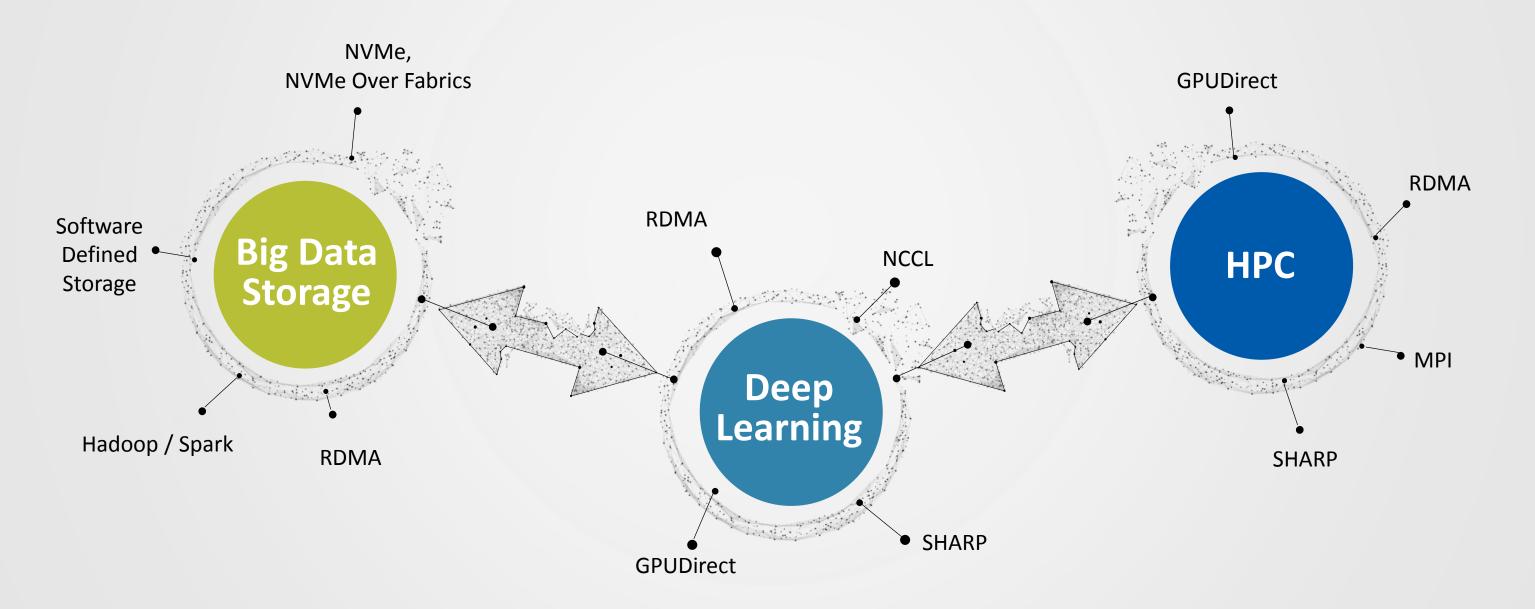
Unleashing the Power of Data

Exponential Growth of Data & Real Time Analytics Requires Mellanox High Throughput, Low Latency, Smart Interconnect Solutions





Same Interconnect Technology Enables a Variety of Applications













Adapters



Switches



Cables & Transceivers

Higher Data Speeds
Faster Data Processing
Better Data Security





Highest Performance 100, 200 and 400Gb/s Interconnect Solutions



Adapters

200Gb/s, 0.6us Latency 200 Million Messages per Second (10 / 25 / 40 / 50 / 56 / 100 / 200Gb/s)







Switch

40 HDR (200Gb/s) Ports 80 HDR100 (100Gb/s) Ports 16Tb/s Throughput, 15.6 Billion msg/sec





Switch

16 400GbE Ports, 32 200GbE Ports 64 100GbE Ports, 128 25/50GbE Ports Throughput of 6.4Tb/s





Interconnect

Transceivers
Active Optical and Copper Cables
(10 / 25 / 40 / 50 / 56 / 100 / 200Gb/s)







Mellanox Accelerates Leading HPC and Al Systems



World's Top 3 Supercomputers



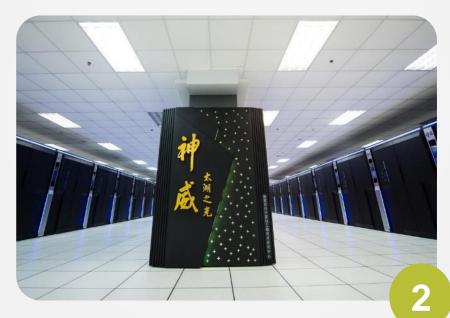




Summit CORAL System
World's Fastest HPC / AI System
9.2K InfiniBand Nodes







Wuxi Supercomputing Center
Fastest Supercomputer in China
41K InfiniBand Nodes









Sierra CORAL System #2 USA Supercomputer 8.6K InfiniBand Nodes

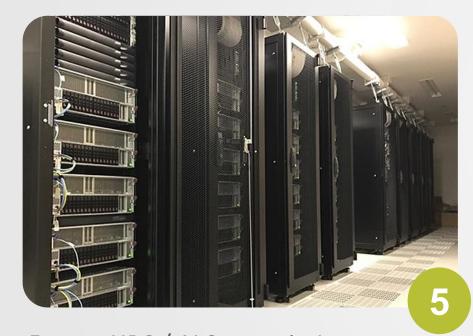


Mellanox Accelerates Leading HPC and Al Systems



(Examples)





Fastest HPC / Al System in Japan 1.1K InfiniBand Nodes



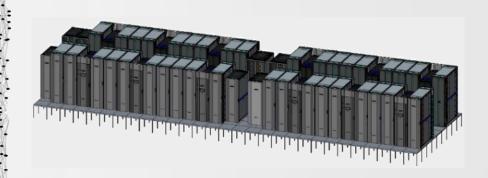




The world's Fastest Industry
Supercomputer
1.6K InfiniBand Nodes







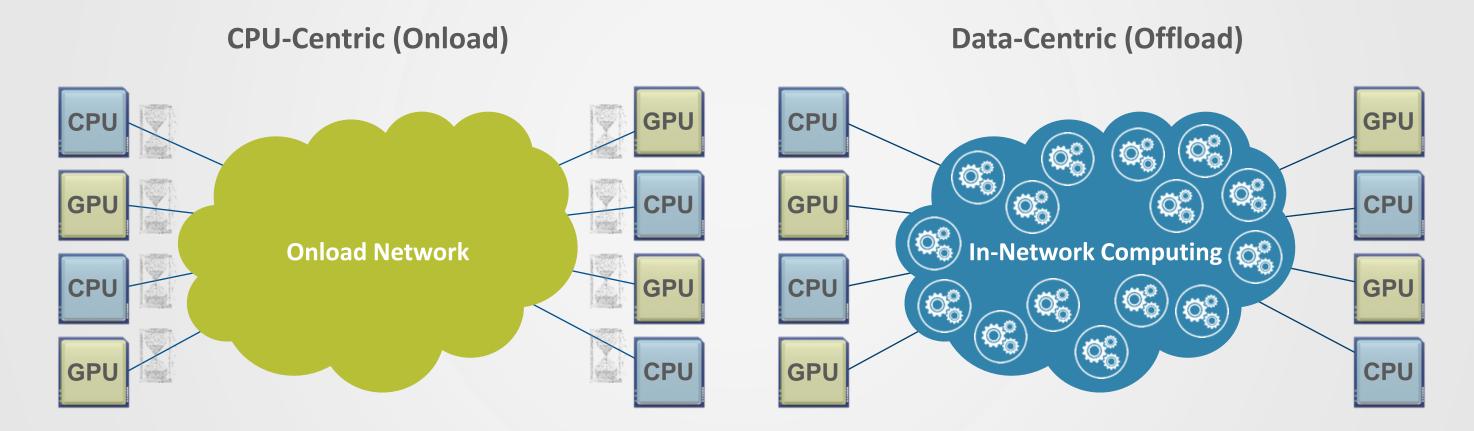
'Astra' Arm-Based Supercomputer NNSA Vanguard Program 2.6K InfiniBand Nodes

To be Listed Nov'18 (TOP100)

Mellanox TECHNOLOGIES

The Need for Intelligent and Faster Interconnect

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



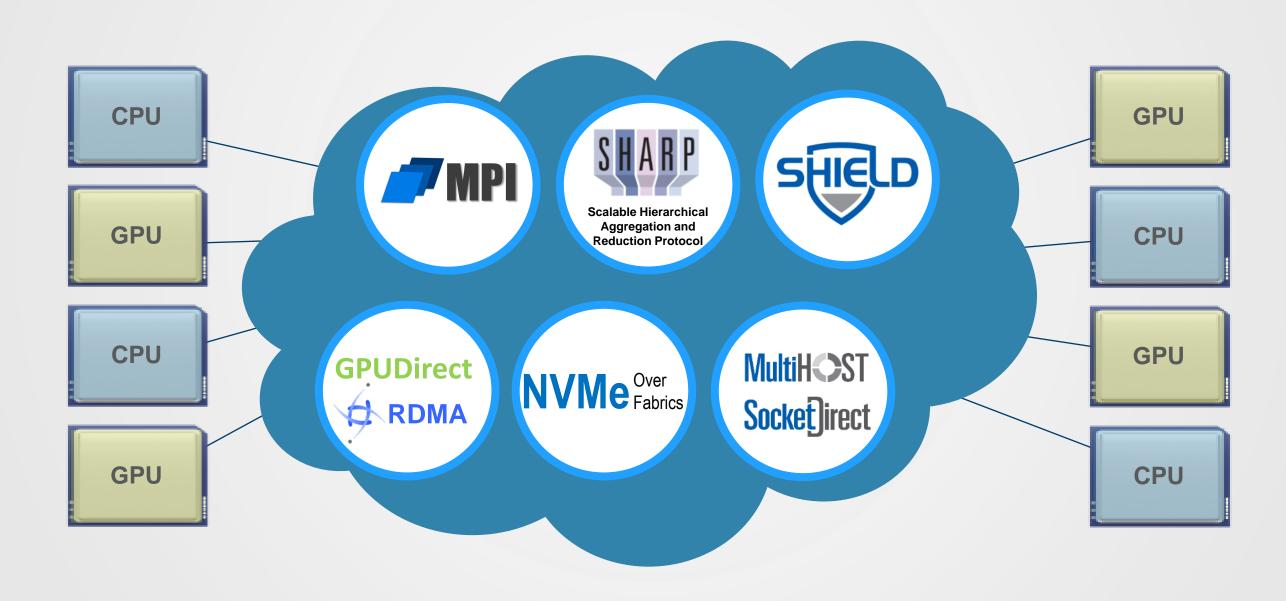
Must Wait for the Data
Creates Performance Bottlenecks



Analyze Data as it Moves!
Higher Performance and Scale



In-Network Computing to Enable Data-Centric Data Centers



In-Network Computing Delivers Highest Performance





In-Network Computing



10X Performance Acceleration
Critical for HPC and Machine Learning Applications





Performance Acceleration

Delivers Highest Application Performance



Self-Healing



Faster Network Recovery

Unbreakable Data Centers

GPUDirect™ RDMA **GPU Acceleration Technology**



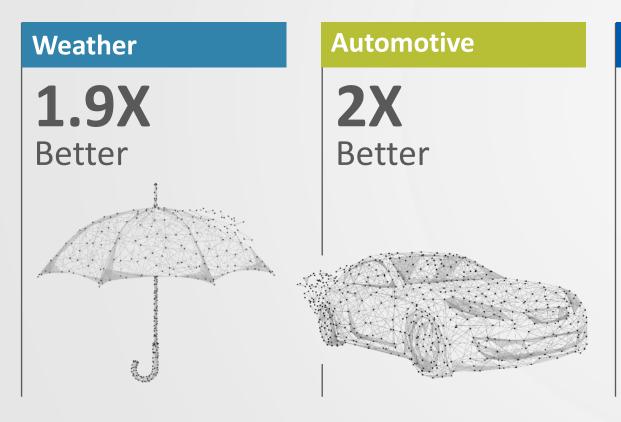
Performance Acceleration

Critical for HPC and Machine Learning Applications

InfiniBand Delivers Best Return on Investment



- 30%-250% Higher Return on Investment
- Up to 50% Saving on Capital and Operation Expenses
- Highest Applications Performance, Scalability and Productivity









Unlocking the Power of Artificial Intelligence



RDMA Supercharges Leading Al Frameworks















Mellanox Supercharges Leading Al Companies

























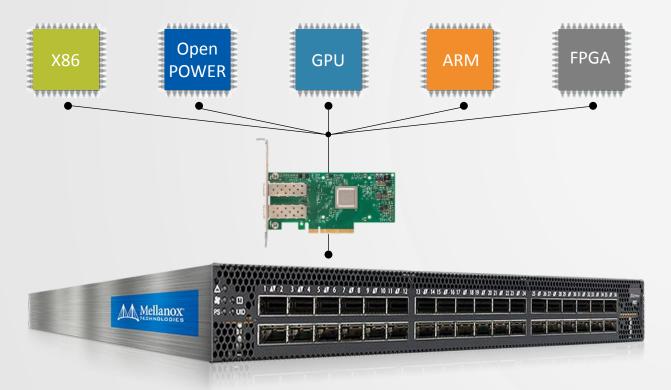


50% **Lower CapEx** & OpEx

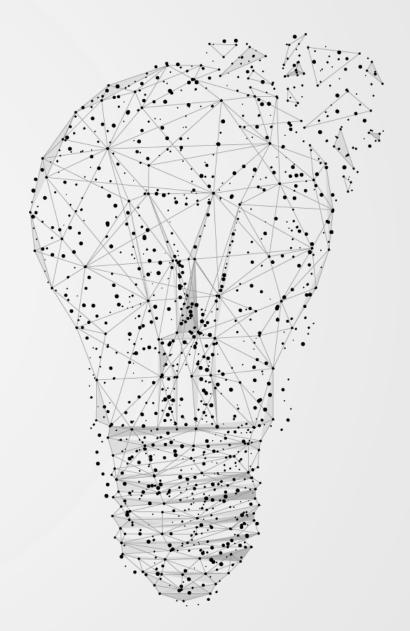


End-to-End Solutions for All Platforms

Unleashing the Power of all Compute Architectures



Highest Performance and Scalability for Intel, AMD, IBM Power, NVIDIA, Arm and FPGA-based Compute and Storage Platforms at 10, 20, 25, 40, 50, 100, 200 and 400Gb/s Speeds





Mellanox Overview

Company Headquarters

Yokneam, Israel

Sunnyvale, California

Worldwide Offices

~2,700

Employees worldwide



