

Main Benefits

MAXIMIZE THE NETWORK

- Maximize datacenter connectivity ROI through: Density, Scale, Performance

OPEN THE NETWORK

- Leverage new technologies that increase functionality, lower investment & improve ROI
- Freedom and flexibility from vendor lock-in

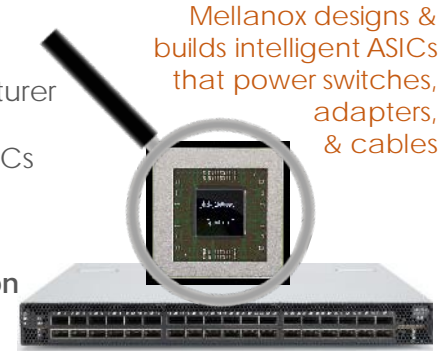
Unique Capability

MELLANOX: THE DIFFERENCE IS IN THE CHIP

- Founded as a state-of-the-art silicon chip (ASIC) manufacturer
- Intelligence built directly into Mellanox chip
- Other switch vendors are forced to source expensive ASICs from third parties such as Broadcom
- Mellanox uses own chip & passes savings to customers

SwitchX.2 6th Generation
10/40/56GbE & 40/56 Gb IB

SwitchIB 7th Generation
40/56/100 Gb IB



Key Differentiators



DENSITY & SCALE

- Lowest power consumption
- Use fixed switches to build scalable, affordable networks
- Most ports in smallest footprint



VALUE & FUTURE PROOF

- Better End-User experience
- Future Proof 10GbE w/40GbE capability
- 56GbE uplinks – 40% better than 40GbE due to fewer cables



PERFORMANCE

- Predictable Performance
- Fair throughput for all ports
- Never drop packets
- Lowest Latency
- Expedited delivery using **cut through** vs. store & forward



UFM MANAGEMENT & AUTOMATION

- Easy to install Appliance
- Simplified fabric management
- Performance and traffic monitoring
- Easy integration w/ open REST APIs
- Historical analytic graphs



Sales Opportunities

SCALE-OUT STORAGE

Combines compute & storage, easier to manage & lowers cost – **top of rack switch with density at lower price point** most attractive

MEDIA & ENTERTAINMENT

Video streaming & post-production on 4k/8k workflows – **needs extreme high bandwidth** to support real-time frame-rates

GENOMICS

Extreme scalability using a building - block approach: Capacity, bandwidth and a single name space expand as more building blocks are added, resulting in near-linear performance gains

CLOUD

Create economies of scale through shared services – **open switch platform with fairness** best for software-defined DC.

BIG DATA

Improved analytics for better business decisions – needs **non-blocking architecture** to speed data ingestion.

SCALE OUT DATABASE

Scale out of DB2 PureScale, Oracle RAC, SAP HANA

Company Background

- Established 1999 * NASDAQ: MLNX
- **End-to-end Ethernet Connectivity Solutions** – Adapters, Switches, Cables, Software, Support
- World-class, non-outsourced technical support
- Trusted as switch manufacturer for every major server OEM in the world

Solution	Feature Codes	Supported Switches
EasyScale for MSP	EC2M EC2N EC37 EC38 EC3A EC3B EC3L	---
ESS - All Models	EL3X EL40 EC3A EC3L EC3E EL3D	F36,E36,S48,NF2,S52
TurboLamp	EC3A	NF2, S52
HPC Cluster - All Models	EC3A EC3E EC3T	F36,E36,G36,GU6,NF2,S48,S52
Solution for Healthcare E850C	EC2N EC38 EC3B EC3M	---
Solution for Healthcare E880C	EC2M EC2N EC37 EC38 EC3A EC3B EC3L	---
Solution for Healthcare E980	EC2R EC2S EC2T EC2U EC67	---
Solution for Healthcare E950	EC2S EC2U EC66	---
Power E850C for Vendita DCS	EC2N EC38 EC3B EC3M	---
EPIC Power ScaleOut System	EC2N EC38 EC3B EC3M	---
MongoDB Boost	EKAL EKAM EKAU	---
Open Platform for DBaaS	EKAL EKAM EKAU	S48, S52
HDP on Power8	EKAL EKAM EKAU	S48, S52
HDP on Power9	EKAM EKAU EKAY EKFD	S48, S52
Power Entry for ICP - Enterprise	EC2R EC2S EC2T EC2U EC3A EC3B EC3L EC62 EC64	S48, S52, G36, GU6
Power Entry for ICP - Cognitive Clusters -GTH	EC2R EC2T EC3L EC62 EC64	S48, S52, G36, GU6
Power Entry for ICP - Cognitive Clusters -22P	EKAM EKAU EKAY EKFD	S48, S52, G36, GU6
Power Entry for ICP - Scale Out - 22L	EC2R EC2S EC2T EC2U EC3A EC3B EC3L EC62 EC64	S48, S52, G36, GU6
Power Entry for ICP - Scale Out - 22P	EKAM EKAU EKAY EKFD	S48, S52, G36, GU6
PowerVC Cloud - ESCA	EKAU	---
PowerVC Cloud - ESCB	EC2M EC2N EC37 EC38 EC3A EC3B EC3E EC3L EC3T EC32	G36, GU6, S52
PowerVC Cloud - ESCC / ESCD	EKAL EKAM EKAU	G36, GU6, S52
Power Accelerated Computing Platform - ESS	EL3X EL40 EC3A EC3L EC3E EL3D	---
Power Accelerated Computing Platform - GTG	EC3L EC62 EC64	G36, GU6, S52
Power Accelerated Computing Platform - 21L	EC2R EC2S EC2T EC2U EC3A EC3B EC3L EC62 EC64	G36, GU6, S52
Power Accelerated Computing Platform - 22L	EL3X EL40 EC3A EC3L EC3E EL3D	---
SAP HANA Solution - E850C	EC2N EC38 EC3B EC3F EC3U	G36, GU6, S52
SAP HANA Solution - S824L	EC3B EC3F EC3U	G36, GU6, S52
SAP HANA Solution - H922	EC2R EC2S EC2T EC2U EC3A EC3B EC3L EC62 EC64	G36, GU6, S52
SAP HANA Solution - H924	EC2S EC2U EC3B EC3M EC63 EC65	G36, GU6, S52

F36 - 8831-F36 / SX6036 | E36 - 8828-E36 / SB7700 | G36 - 8828-G36 / SB7800 | GU6 - 8828-GU6 / SB7890

NF2 - 8831-NF2 / SX1710 | S48 - 8831-S48 / SX1410 | S52 - 8831-S52 / 4610-54T

FC#	ASIC / PCI Generation Bandwidth	Speed	Ports
EC2M	ConnectX-3 Pro / Gen 3.0 x8	10GbE	2
EC2N	ConnectX-3 Pro / Gen 3.0 x8	10GbE	2
EC37	ConnectX-3 Pro / Gen 3.0 x8	10GbE	2
EC38	ConnectX-3 Pro / Gen 3.0 x8	10GbE	2
EL3X	ConnectX-3 Pro / Gen 3.0 x8	10GbE	2
EL40	ConnectX-3 Pro / Gen 3.0 x8	10GbE	2
EC2R	ConnectX-4 Lx / Gen 3.0 x 8	10GbE	2
EC2S	ConnectX-4 Lx / Gen 3.0 x 8	10GbE	2
EC2T	ConnectX-4 Lx / Gen 3.0 x 8	10/25GbE	2
EC2U	ConnectX-4 Lx / Gen 3.0 x 8	10/25GbE	2
EKAU	ConnectX-4 Lx / Gen 3.0 x8	10/25GbE	2
EC3A	ConnectX-3 / Gen 3.0 x8	40GbE	2
EC3B	ConnectX-3 / Gen 3.0 x8	40GbE	2
EKF1	ConnectX-4 / Gen 3.0 x16	40GbE	2
EKAM	ConnectX-4 / Gen 3.0 x16	100GbE	1
EC3L	ConnectX-4 / Gen 3.0 x16	100GbE	2
EC3M	ConnectX-4 / Gen 3.0 x16	100GbE	2
EC66	ConnectX-5 Ex / Gen 4.0 x16	100GbE	2
EC67	ConnectX-5 Ex / Gen 4.0 x16	100GbE	2
EKFD	ConnectX-5 / Gen 3.0 x16	100GbE / EDR	1
EKAL	ConnectX-4 / Gen 3.0 x16	100GbE / EDR	2
EKAY	ConnectX-5 Ex / Gen 4.0 x16	100GbE / EDR	2
EC3T	ConnectX-4 / Gen 3.0 x16	EDR	1
EC3U	ConnectX-4 / Gen 3.0 x16	EDR	1
EC62	ConnectX-5 Ex / Gen 4.0 x16	EDR	1
EC63	ConnectX-5 Ex / Gen 4.0 x16	EDR	1
EC3E	ConnectX-4 / Gen 3.0 x16	EDR	2
EC3F	ConnectX-4 / Gen 3.0 x16	EDR	2
EC64	ConnectX-5 Ex / Gen 4.0 x16	EDR	2
EC65	ConnectX-5 Ex / Gen 4.0 x16	EDR	2
EC32	Connect-IB / Gen 3.0 x16	FDR	2
EL3D	Connect-IB / Gen 3.0 x16	FDR	2