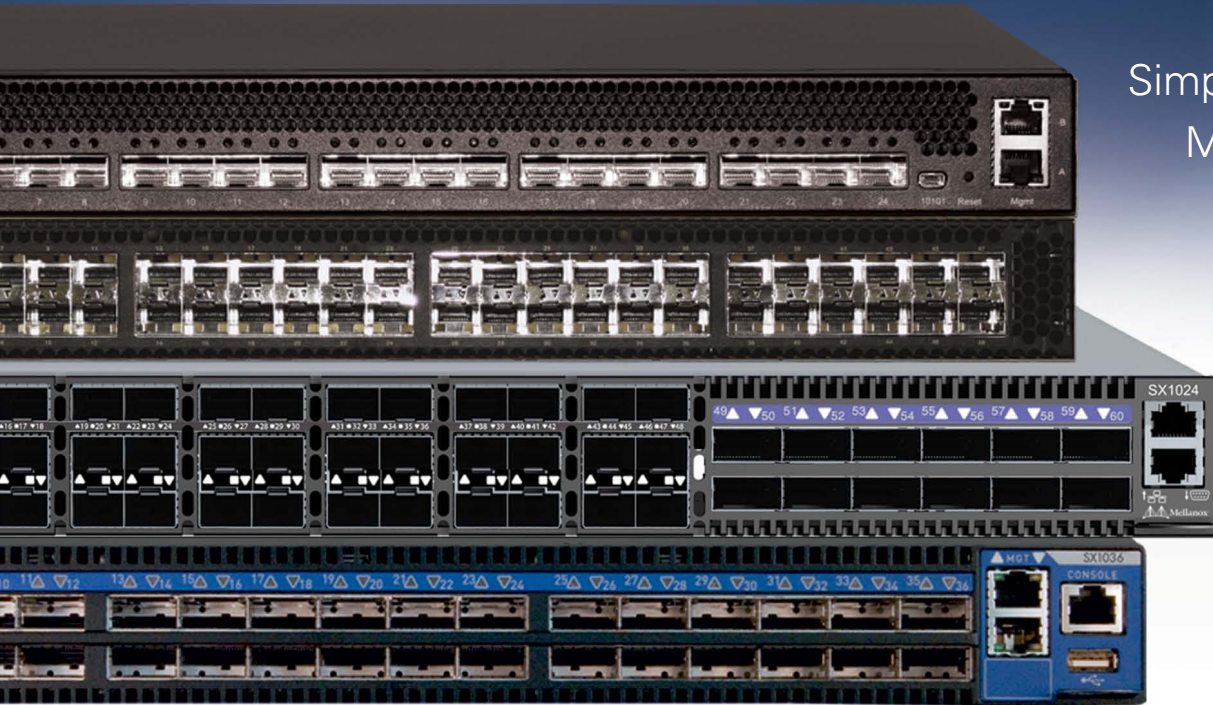


# 1Gb/s, 10Gb/s and 40Gb/s Ethernet Switch System Family

Highest Levels of Scalability  
Simplified Network Manageability  
Maximum System Productivity



Mellanox continues its leadership by providing  
**10 and 40 Gigabit Ethernet Switch Systems** –  
the highest performing Ethernet solutions for Enterprise Data Centers,  
Cloud Computing, Web 2.0 and High Performance Computing.

The **SwitchX Family of Ethernet switches** delivers the highest performance and port density with a complete fabric management solution enabling converged data centers to operate at any scale while reducing operational costs and infrastructure complexity.

This family includes a broad portfolio of 1U switches that range from 24x1/10GbE ports to 36x40GbE ports that offer blocking and non-blocking schemes for 10GbE and 40GbE based servers.

These switches allow IT managers to build cost-effective, 'pay as you grow' switch fabrics for small to large clusters up to 10's-of thousands of nodes.

Mellanox makes fabric management as easy as it can by providing the lowest latency and highest bandwidth. This allows IT managers to deal with serving the company's business needs, while solving typical networking issues such as congestion and the inefficiencies generated by adding unnecessary rules and limitations when the network resources are sufficient.



6024



SX1024



SX1016



SX1036

	6024	SX1016	SX1024	SX1036
40GigE Ports	0	0	12	36
10GigE Ports	24	64	48	64
Height	1U	1U	1U	1U
Switching Capacity	480Gb/s	1.28Tb/s	1.92Tb/s	2.88Tb/s
Performance	Non-blocking	Non-blocking	Non-blocking	Non-blocking
Device Management	Y	Y	Y	Y
Fabric Management	Y	Y	Y	Y
Installation Kit	Y	Y	Y	Y
FRUs	Fans	N	PS and Fans	PS and Fans
PSU Redundancy	Y	Y	Y	Y
FAN Redundancy	Y	Y	Y	Y

## BENEFITS

- **Efficiency**
  - Simple configuration, no need for QoS (40GbE vs. 10GbE)
- **Easy Scale**
  - UFM can maintain from 1 to 1000s nodes and switches
  - Configure and manage the data center from a single location
- **Elasticity**
  - Low latency on any node
- **Arranged and Organized Data Center**
  - 40GbE high density switch means 4x less cables
  - Easy deployment
  - Easy maintenance
- **Unprecedented Performance**
  - Storage and server application runs faster
- **Density**
  - Ultra-high density
  - Up to 64 SFP+ ports in 1U

## FEATURE SUMMARY

### HARDWARE

- 1/10Gb/s or 40Gb/s per port
- Full bisectional bandwidth to all ports
- All port connectors supporting passive and active cables
- Redundant auto-sensing 110/220VAC power supplies
- Per port status LED Link, Activity
- System, Fans and PS status LEDs
- Hot-swappable replaceable fan trays

### MANAGEMENT

- Comprehensive fabric management
- Secure, remote configuration and management
- Performance/provisioning manager
- Quality of Service based on traffic type and service levels
- Cluster diagnostics tools for single node, peer-to-peer and network verification
- Switch chassis management
- Error, event and status notifications

## COMPLIANCE

### SAFETY

- USA/Canada: cTUVus
- EU: IEC60950
- International: CB Scheme

### EMC (EMISSIONS)

- USA: FCC, Class A
- Canada: ICES, Class A
- EU: EN55022, Class A
- EU: EN55024, Class A
- EU: EN61000-3-2, Class A
- EU: EN61000-3-3, Class A
- Japan: VCCI, Class A

### ENVIRONMENTAL

- EU: IEC 60068-2-64: Random Vibration
- EU: IEC 60068-2-29: Shocks, Type I / II
- EU: IEC 60068-2-32: Fall Test

### OPERATING CONDITIONS

- Operating 0°C to 45°C,  
Non Operating -40°C to 70°C
- Humidity: Operating 5% to 95%
- Altitude: Operating -60 to 2000m



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