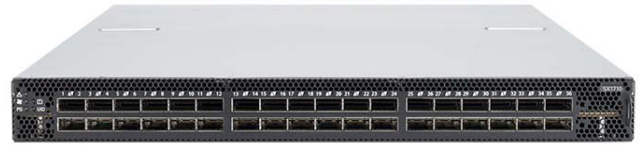


## SX1710

### 36-Port 10/40/56GbE SDN Switch System



The NEBS and ETSI compliant SX1710 SDN switch is ideally suited as a top-of-rack access switch providing up to 56GbE connectivity to servers and uplinks to the next level of aggregation switching for network function virtualization (NFV) deployments, traditional deployments, and more.

The SX1710 switch has a rich set of networking and application performance features that excel and enable Software Defined Networking in any data center, central office, or rugged deployment. It has both AC and DC power options, making this switch the perfect solution for any network.

The SX1710 carries a unique design that enables users with a straight forward platform for implementation of a Software Defined Network (SDN), allowing the construction of a high scale network with advanced fine tuning control plane capabilities. It supports the Virtual Protocol Interconnect® (VPI) technology which enables it to be used for both Ethernet and InfiniBand technology providing the user with flexibility and investment protection. The SX1710 provides a full suite of management options, including support for Mellanox's NEO™, SNMP V1,2,3, and web user interfaces. In addition, the SX1710 incorporates a familiar industry- standard CLI, which enables administrators to easily configure the switch.

To ensure long term applicability, the SX1710 is provisioned to enhance its current capabilities with additional L2 and L3 features through soft-ware upgrades.

#### World-Class Design

The SX1710 is an elegant top-of-rack design architected for performance, serviceability, energy savings and high-availability. The design is optimized for fitting into industry-standard racks and also for scale-out computing solutions from industry leaders. It supports reversible airflow making the design fit into data centers with different thermal designs. Redundant and hot swappable power supplies and fans provide high availability for high-performance computing, cloud, telco central office, rugged, and data center applications.

#### Benefits

- Software Defined Networking (SDN) support
- Perfect for Network Function Virtualization (NFV)
- Efficiency - Simple configuration (40/56GbE vs. 10GbE)
- Easy Scale - Configure and manage the data center from single location
- Elasticity - Low-latency on any node
- Arranged and Organized Data Center - 40/56GbE high density, 4x less cables, easy deployment, easy maintenance
- Unprecedented Performance - Storage and server applications run faster
- IPv6 Ready, IPv6 IPsec

#### Key Features

- NEBS and ETSI compliant
- AC and DC power options
- High Density
  - 36 40/56GbE ports in 1RU
  - Up to 64 10GbE ports
- Lowest Latency
  - 220nsec for 40GbE
  - 270nsec for 10GbE
- Lowest Power
- Control Plane resiliency
  - Dual core x86 CPU
  - 16GB SSD
  - 4GB DIMM

## LAYER 2 FEATURE SET

- 1GBE, 10GBE, 40GBE, 56GBE
- 48K L2 Forwarding Entries
- Static MAC
- Jumbo Frames (9216 BYTES)
- VLAN 802.1Q (4K)
- 802.1W Rapid Spanning Tree Protocol
  - BPDU Filter
  - ROOT Guard
  - LOOP Guard
  - BPDU Guard
- 802.1S Multiple Spanning Tree Protocol
- PVRST+ (Rapid Per VLAN Spanning Tree+)
- 802.3AD Link Aggregation/LACP
  - 16 Ports/Channel
  - 32 Groups Per System
- Multi Chassis Link Aggregation Group (MLAG)
- 802.3X FLOW CONTROL
- 802.1QBB PRIORITY FLOW CONTROL (PFC)
- 802.1QAZ ENHANCED TRANSMISSION SELECTION (ETS)
- DCBX
- 802.1AB LLDP
- ACCESS CONTROL LISTS (L2-L4)
- SFLOW
- PORT MIRRORING
- FCoE

## LAYER 3 FEATURE SET

- Static Routes v4/v6
- OSPFv2
- BGPv4
- Router port interface for routing
- VLAN interface for routing
- PIM Bi-Dir
- DHCP Relay
- ECMP
- VRRP
- IGMP Querier Router

## POWER SPECIFICATIONS

- Power Consumption
  - Typical Power Consumption (ATIS): 82.35W
  - Max Power Consumption (passive cables): 208W
  - Max Power Consumption (optical cables): 300W
- AC power Input Range: 100 - 240 VAC
- DC Power Input Range: -40.5VDC / -75VDC

## PHYSICAL CHARACTERISTICS

- Dimensions:
  - 1.716" (H) x 16.85" (W) x 24.75" (D)
  - 43.6mm (H) x 428mm (W) x 628.9 mm (D)
- Weight: 19.40 lbs (8.80 kgs)

## NETWORK MANAGEMENT

- 100/1000 Management port
- In-Band Management
- Serial Console Port
- SDN
- OpenFlow
- Embedded puppet Agent
- RADIUS
- TACACS+
- LDAP
- SSHv2
- DHCP/Zeroconf
- Familiar Industry Standard CLI
- Management over IPv4/IPv6
- Telnet
- File download via SCP, FTP & TFTP client
- Network Time Protocol (NTP)
- Syslog
- Dual SW Image
- Auto Temperature Control
- System alarms
- Port Counters
- Event notification
- SNMP v1,v2,v3
- E-Mail
- Web UI
- Predefined scheduled scripts
- System health monitoring
- Multi Chassis Link Aggregation Group

## SUPPORTED MODULES AND CABLES

- QSFP, SFP+ short and long range optics
- QSA - QSFP to SFP+ adapter
- QSFP to SFP+ DAC cable
- QSFP to QSFP DAC Cable
- QSFP breakout cables 40GbE to 4x10GbE
- DAC, Optical
- QSFP AOC

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