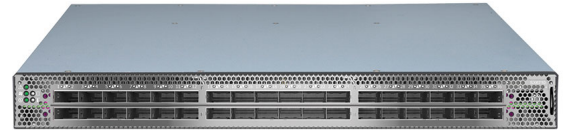


## SX6710

### 36-port Non-blocking Managed FDR 56Gb/s InfiniBand Switch



#### Scaling-Out Data Centers with Fourteen Data

##### Rate (FDR) InfiniBand

Faster servers based on PCIe 3.0, combined with high-performance storage and applications that use increasingly complex computations, are causing data bandwidth requirements to spiral upward. As servers are deployed with next generation processors, High-Performance Computing (HPC) environments and Enterprise Data Centers (EDC) will need every last bit of bandwidth delivered with FDR InfiniBand high-speed smart switches.

##### Sustained Network Performance

FDR uses efficient 64/66 encoding while increasing the per lane signaling rate to 14Gb/s. The SX6710 provides up to thirty-six 56Gb/s full bi-directional bandwidth per port. These stand-alone switches are an ideal choice for top-of-rack leaf connectivity or for building small to extremely large sized clusters.

The SX6710 enables efficient computing with features such as static routing, adaptive routing, and congestion control. These features ensure the maximum effective fabric bandwidth by eliminating congestion hot spots.

##### World-Class Design

The NEBS and ETSI compliant SX6710 is an elegant top of the rack design, created for performance, serviceability, energy savings and high-availability.

The SX6710 comes with two highly efficient, 80 gold+ and energy star certified, AC or DC power supplies ordering option). SX6710 has redundant power supplies (1+1) and fan draws (N+1) both with air shutters for achieving maximal thermal protection.

#### Management

SX6710, dual-core x86 CPU, comes with an onboard subnet manager, enabling simple, out-of-the-box fabric bring-up for up to 648 nodes.

#### Benefits

- Industry-leading switch platform in performance, power, and density
- Designed for energy and cost savings
- Quick and easy setup and management
- Maximizes performance by removing fabric congestions

#### Key Features

- NEBS and ETSI compliant
- Performance
  - 36 X FDR 56Gb/s ports in a 1U switch
  - 4Tb/s aggregate switch throughput
  - 200ns switch latency
- Optimized Design
  - 1+1 redundant & hot-swappable power
  - N+1 redundant & hot-swappable fans
  - AC and DC power supplies ordering option
  - 80 gold+ and energy star certified power supplies
  - Dual-core x86 CPU

## SX6710 InfiniBand Switch

- 19" rack mountable chassis, 1U with redundant power supplies and Fan units
- 36 QSFP non-blocking ports with aggregate data throughput up to 4 Tb/s (FDR)

## SWITCH SPECIFICATIONS

- Compliant with IBTA 1.21 and 1.3
- 9 virtual lanes: 8 data + 1 management
- 256 to 4Kbyte MTU
- 4X48K entry linear forwarding data base

## MANAGEMENT PORTS

- Dual 100/1000 Ethernet ports
- RS232 port over DB9
- USB port
- DHCP
- Familiar Industry Standard CLI
- Management over IPv6
- Management IP
- SNMP v1,v2,v3
- Web UI

## FABRIC MANAGEMENT

- On-board Subnet Manager supporting fabrics of up to 648 nodes
- Unified Fabric Manager™ (UFM™) Agent

## CONNECTORS AND CABLING

- QSFP+ connectors
- Passive copper or active fiber cables
- Optical modules

## INDICATORS

- Per port status LED Link, Activity
- System status LEDs: System, fans, power supplies
- Port Error LED
- Unit ID LED\*

## PHYSICAL CHARACTERISTICS

- Dimensions: 1.72"H x 16.84"W x 27"D
- Weight: 19.40 lbs (8.80 kgs)

## POWER SUPPLY

- Dual redundant slots
- Hot plug operation
- AC power Input Range: 100 - 240 VAC
- DC Power Input Range: -40.5VDC / -75VDC

## COOLING

- Front-to-rear or rear-to-front cooling option
- Hot-swappable fan unit

## POWER CONSUMPTION

- Typical power consumption: 130W
- Max power consumption: 235W

## SAFETY

- US/Canada: cTUVus
- EU: IEC60950
- International: CB

## 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 3200m

## ACOUSTIC

- ISO 7779
- ETS 300 753

## OTHERS

- RoHS-6 compliant
- Rack-mountable, 1U
- 1-year warranty

For more information, please contact your Vector Data account manager.