

MTS3610

324-port 20 and 40Gb/s InfiniBand Chassis Switch

The MTS3610 chassis switch provides the highest performing fabric solution by delivering highbandwidth and low-latency to Enterprise Data Centers and High-Performance Computing environments in a compact 19RU chassis.

World Class Density and Scalability

Built with Mellanox's 4th generation InfiniScale[®] IV InfiniBand switch device, MTS3610 systems provide up to 40Gb/s full bisectional bandwidth per port. With up to 324 ports, these systems are among the densest switching systems available. These chassis switches are an ideal choice for building medium to large size clusters or for use as core switches for large clusters.

Sustained Network Performance

The MTS3610 enables efficient computing with features such as static routing, adaptive routing, and congestion management. These features ensure the maximum effective fabric bandwidth by eliminating congestion hot spots. Whether used for parallel computation or as a converged fabric, the MTS3610 switches provides the industry's best traffic-carrying capacity. The switch systems work in conjunction with ConnectX[®] InfiniBand Adapters family to restrict the traffic causing congestion ensuring high bandwidth and low-latency to all other flows.

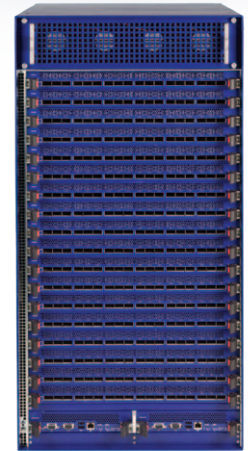
Whether used for parallel computation or as a converged fabric, the combination of high bandwidth, adaptive routing, and congestion control provide the industry's best traffic carrying capacity.

High Availability

The MTS3610 delivers director-class availability required for mission-critical application environments. The leaf and spine blades as well as the power supplies and fan units are all hot-swappable to help eliminate down time.

Easy Management

The MTS3610 ships with the management module providing embedded chassis management supporting up to 648 nodes in cluster. The MTS3610 is easily managed through any IBTA compliant subnet manager. Port configuration and data paths can be set up automatically or customized to meet the needs of the application.



MTS3610

HIGHLIGHTS

BENEFITS

- High-performance fabric for parallel computation or I/O convergence
- Wirespeed InfiniBand switch platform up to 40Gb/s per port
- High-bandwidth, low-latency fabric for compute-intensive applications

KEY FEATURES

- 25.92Tb/s switching capacity
- 100ns to 300ns switching latency
- Hardware-based routing
- Congestion control
- Quality of Service enforcement

MANAGEMENT

- Integrated Management module
- Supports OpenSM or third-party subnet managers
- Diagnostic and debug tools

HARDWARE

INFINIBAND SWITCH

- 324 QSFP non blocking ports with aggregate throughput up to 25.92Tb/s
- in a 19U form factor
- Port-to-port latency 100-300 ns
- IBTA 1.2 compliant
- 9 Virtual lanes: 8 data + 1 management
- Adaptive routing
- Congestion control
- Port mirroring
- 48K entry linear forwarding data base

CONNECTORS AND CABLING

- QSFP connectors
- Passive/Active copper or fiber cable
- Fiber media adapters

INDICATORS

- Per port status LEDs: Link, Activity
- System status LEDs: System, thermal, voltages, fans

DIMENSIONS AND WEIGHT

- 33.1H x 19W x 25.7D inches
- 233 lbs (minimum configuration)
- 345 lbs (full configuration)

POWER SUPPLY

- Six 1KW 48VDC hot-swappable units
- Two additional slots for optional redundancy
- Input range: 90-264VAC
- Frequency: 47-63Hz, single phase AC

MAXIMUM POWER CONSUMPTION

- 4765W (MTS3610D full configuration)
 - Dissipated power: 3415W
 - Power through QSFP: 3.5W available per port
- 5170W (MTS3610Q full configuration)
 - Dissipated power: 3820W
 - Power through QSFP: 3.5W available per port

COMPLIANCE

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

ACOUSTIC

- ISO 7779
- ETS 300 753

OPERATING CONDITIONS

- Operating temperature: 10 to 45° C
- Humidity: 10-90% non-condensing

OTHERS

- RoHS-5 compliant
- 1-year warranty

Ordering Part Number	Description
MTS3610Q-6DNC	InfiniScale IV 25.9Tb/s QDR InfiniBand Chassis Switch, 18 Leaf Slots, managed
MTS3610D-6DNC	InfiniScale IV 13Tb/s DDR InfiniBand Chassis Switch, 18 Leaf Slots, managed
MTS3611QC	InfiniScale IV 18+18 port QSFP 40Gb/s InfiniBand Leaf Blade
MTS3611DC	InfiniScale IV 18+18 port QSFP 20Gb/s InfiniBand Leaf Blade
MTS3610QSC	InfiniScale IV 2.88Tb/s QDR InfiniBand Spine Blade
MTS3610DSC	InfiniScale IV 1.44Tb/s DDR InfiniBand Spine Blade

Also available through Mellanox Certified Resellers and Distributors



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