

TX6200

RDMA Long-Haul Solutions to the Metro

The MetroX™ TX6200 series extends Mellanox's RDMA solutions from a single-location data center network to distances up to 100km for campus and metro applications.

Scaling-Out Data Centers with MetroX

Data centers, compute clusters and supercomputers are overwhelmed by unprecedented growth in data volume, fueled by strong application and technology trends.

While Mellanox products have been traditionally deployed for their high-performance interconnect benefits within the data center, Mellanox's MetroX solutions, implementing long-haul RDMA, enable connections between data centers deployed across multiple geographically distributed sites, extending the same world-leading interconnect benefits of Mellanox switches beyond local data centers and storage clusters.

Mellanox's MetroX is the perfect cost-effective, low power, easily managed and scalable solution that enables today's data centers and storage to run over local and distributed fabrics, managed as a single unified network infrastructure.

Long-Haul RDMA

The TX6200 system can transfer data to distances of up to 100km. The solution enables aggregate data and storage networking over a single, consolidated fabric. The long-haul RDMA technology guarantees high-performance, high-volume data sharing between distant sites, enabling existing data centers expansion, disaster recovery, data mirroring and campus connectivity.

MetroX enables a metro network to assemble large aggregate clusters, all connected and easily managed.

10Gb/s Across Metro, 56Gb/s Locally

Mellanox's TX6200 supports up to two long-haul ports running at 10Gb/s for up to 100km and two downlink ports running at 56Gb/s.

MetroX latency is 200ns, and each kilometer of transmission across fiber glass adds 5 microseconds of latency.

MetroX ports support Mellanox's VPI technology, which enables any standard networking, storage or management protocol to seamlessly operate over any converged network.



HIGHLIGHTS

BENEFITS

- Extends RDMA networks up to a 100km radius over dark fiber
- Low cost, low power, long-haul solution over InfiniBand and Ethernet fabrics
- Simple management
- RDMA execution over a distant site

KEY FEATURES

- 2 Long haul (10Gb/s) ports in a 1U system
- Up to 20Gb/s long-haul aggregate data
- 2 Downlink (56Gb/s) VPI ports
- Compliant with IBTA 1.2.1 and 1.3
- Compliant with Mellanox SFP+ long haul 10Gb/s transceivers
- Redundant power supplies and fan drawers

SPECIFICATIONS

MELLANOX TX6200

- 19" rack mountable chassis, 1U with redundant power supplies and Fan units
- 2 Downlink QSFP non blocking ports with aggregate data throughput up to 112Gb/s
- 2 Uplink QSFP non-blocking ports with aggregate data throughput up to 20Gb/s

LONG HAUL SPECIFICATIONS

- Compliant with IBTA 1.2.1 and 1.3
- 2 Virtual Lanes: 1 data + 1 management
- 4X48K entry linear forwarding data base

MANAGEMENT PORTS

- Dual 100/1000 Ethernet ports
- RS232 port over DB9
- USB port

DEVICE MANAGEMENT

- CLI or SNMP

FABRIC MANAGEMENT

- On-board SM for fabrics up to 648 nodes
- Unified Fabric Manager (UFM™) Agent*

CONNECTORS AND CABLING

- QSFP connectors
- Passive copper or active fiber cables
- Fiber media adapters*

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 24.7"D
- Weight: 20.5 Lbs (9.3 Kgs)

POWER SUPPLY

- Dual redundant slots
- Hot plug operation
- Input range: 100 - 240VAC
- Frequency: 50-60Hz, single phase AC

COOLING

- Front-to-rear cooling option
- Hot-swappable fan unit
- Auto-heat sensing for silent fan operation

POWER CONSUMPTION

- Passive cable - TBD
- Active cable - TBD

COMPLIANCE

SAFETY

- US/Canada: cTUVus
- EU: IEC60950
- International: CB
- Russia: GOST-R
- Argentina: S-mark

POWER SUPPLIES

- China CCC
- Korea KCC

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
- Australia: C-TICK

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

ACOUSTIC

- ISO 7779
- ETS 300 753

OTHERS

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

| Ordering Part Number | Description |
|----------------------|--|
| MTDX6200-2SFS | MetroX™ 100KM FDR10 long-haul solution, 2 long-haul and 2 downlink QSFP ports, 2 power supplies, Standard depth, Managed, PSU side to Connector side airflow, Rail Kit and RoHS6 |

* Available in a future release

Image depicts sample product only; actual product may differ



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