IS5030 and IS5035
36-port Non-blocking Managed 40Gb/s InfiniBand Switch System

The IS5030 and IS5035 switch systems provide the highest-performing fabric solutions in a 1RU form factor by delivering 2.88Tb/s of non-blocking bandwidth to High-Performance Computing and Enterprise Data Centers, with 100ns port-to-port latency. Built with Mellanox's 4th generation InfiniScale® IV InfiniBand switch device, the IS5030 and IS5035 provides up to 40Gb/s full bidirectional bandwidth per port. These stand-alone switches are an ideal choice for top-of-rack leaf connectivity or for building small to medium sized clusters. The IS5030 and IS5035 are designed to carry converged LAN and SAN traffic with the combination of assured bandwidth and granular Quality of Service (QoS).

Sustained Network Performance
The IS5030 and IS5035 enable efficient computing with features such as static routing, adaptive routing, and advanced 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 IS5000 family of switches provides the industry's best traffic-carrying capacity.

World-Class Design
The IS5030 and IS5035 are an elegant top of the rack design, that are designed 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. The IS5030 and IS5035 support 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 both High-Performance Computing and Enterprise Data Center applications. Status LEDs for fans and power supply units are placed on both sides of the system for easy status identification. Quick start guide, rack mount kit, AC power cord and RJ45 to DB9 console cables are provided as part of the standard system providing new levels of out of the box experience and performance.

FabricIT™ - The Fabric Manager
FabricIT™ delivers complete fabric management and chassis management. FabricIT fabric management running on the IS5035 enables fast setup for cluster bring-up, fabric-wide bandwidth & latency verification, and various diagnostic tools to check node-node, node-switch connectivity and cluster topology view. FabricIT chassis management is embedded in IS5030 and IS5035 and provides administrative tools to manage the firmware, power supplies, fans, ports, and other interfaces. Various threshold parameters can be set and the chassis can be managed inband and outband.
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**HARDWARE**

**INFINIBAND SWITCH**
- 36 ports
- Up to 40Gb/s per port
- Fully non-blocking architecture

**MANAGEMENT PORTS**
- RS232 Console (RJ45)
- Ethernet (RJ45)

**CONNECTORS AND CABLING**
- QSFP connectors
- Passive copper cable
- Active copper and fiber cables
- Fiber media adapters

**INDICATORS**
- Per port status LED Link, Activity
- System status LED System, fans, power supplies

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

**FANS**
- Replaceable fan tray
- Status LED location on the FRU
- Optional Reversible air flow
- Fan speed controlled through management software

**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 0ºC to 45ºC
- Non Operating -40ºC to 70ºC
- Humidity: Operating 5% to 95%
- Non Operating 5% to 95%
- Altitude: Operating -60 to 2000m
- Non Operating -60 to 2000m
- Noise: 55dB - Noise reduction by controlling fan speed

**OTHERS**
- RoHS-5 compliant
- Rack-mountable, 1U
- 1-year warranty

**ACOUSTIC**
- ISO 7779
- ETS 300 753

<table>
<thead>
<tr>
<th>Ordering Part Number</th>
<th>Description</th>
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<tbody>
<tr>
<td>MIS5030D-1SFC*</td>
<td>DDR InfiniBand Switch, (PPC405EXR), PSU side to connector side airflow, Std depth, Rail Kit.</td>
</tr>
<tr>
<td>MIS5030D-1SRC</td>
<td>DDR InfiniBand Switch, (PPC405EXR), Connector side to PSU side airflow, Std depth, Rail Kit.</td>
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* Also available through Mellanox Certified Resellers and Distributors

Also available in short depth form factor. Consult your Mellanox Sales Representative for further details.