

# EMC Connectrix DS-32B2

The 2 Gigabit (2Gb) EMC 32-Port Departmental Switch (DS-32B2) provides sufficient expansion and connectivity capability to construct an EMC Networked Storage infrastructure. It facilitates switching in a multiple-switch fabric that connects hundreds of Fibre Channel ports. The DS-32B2 provides full fabric support, true line-speed switching, and modular components. It meets the needs of a broad range of networked storage applications, including storage consolidation, enterprise backup, and clustering environments.

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## System Architecture

### Fibre Channel Standards

FC-AL Rev 4.5; FC-AL-2 Rev 7.0; FC-FLA Rev 2.7; FC-GS-2 Rev 5.3; FC-FG Rev 3.5; FC-PH Rev 4.3; FC-PH-2 Rev 7.4; FC-PH-3 Rev 9.4; FC-PLDA Rev 2.1; FC-SW Rev 3.3; FC-VI Rev 1.5; IPFC RFC 2625

### Fibre Channel ports

32 universal ports

### Cascade maximum

Up to 16 switches, 3 ISL hops between any two N\_Ports

### Performance

Full line-speed switching, 400 MB/sec per port, full-duplex

### Fabric latency

2 microsecond maximum across switch

### Maximum frame size

2112-byte payload

### Frame buffers

108 per 4-port quad

### Classes of Service

Class 2, Class 3, Class F (Interswitch Frames)

### Port Types

F\_Port, E\_Port, and FL\_Port. Self-discovery based on connection type.

### Data traffic types

Unicast, multicast (256 groups), and broadcast

### Media Types

Small form-factor pluggable (SFP); Long wave laser also available up to 35 km

### Fabric Services

Simple Name Server, Registered State Change Notification (RSCN), Alias Server (Multicast), Zoning,

### Options

Desktop configuration standard (19-in rack mounting kit available separately)  
Advanced Performance Monitoring, Fabric Watch, ISL Trunking, Extended Fabric

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## Management

### Interface

SNMP, Telnet, and Web/Java-based tools

### Management access

Ethernet [RJ-45,10/100], in-line over Fibre Channel link; serial port access



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## Diagnositics

Power-on self tests and embedded online/offline diagnostics, call home via OnAlert

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## Physical Specifications

### Enclosure

DS-32B2 1.5U, 19-in.; EIA compliant  
Depth (in/cm) 23.06/58.564  
Height (in/cm) 2.58/6.55  
Width (in/cm) 16.87/42.855  
Weight (lb/kg), max. 35.8/16.24

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## Environmental Specifications

### Temperature (°F/°C)

Operating: 50 to 104/10 to 40  
Non-operating: -31 to 147/-35 to 65

### Relative Humidity (%), non-condensing @ 104°F/40°C

Operating: 5 – 85

### Altitude (ft/m), operating

9,800/3,000

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## Power Requirements \*

### Voltage (VAC)

100 – 240, ± 10% nominal

### Frequency (Hz)

47 – 63

### Power Draw

440 W (max.)

### Circuit Breaker, (A), max

20

### Power Connector

NEMA 5-15 receptacles (2)

\* Non-US power requirements are country-specific.

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## Regulatory Compliance

Country	Safety
Canada	CSA 22.2 No. 60950
United States	UL 1950 3rd edition
Japan	IEC 60950
European Community	EN60950
Australia/New Zealand	
International	IEC 60950

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Specification Sheet

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