



DS-300B

# CONNECTRIX DS-300B SWITCH

## 8Gb/s Entry-level Fibre Channel Switch

Connectrix® DS-300B provides a cost-effective, flexible foundation for entry-level SANs and can serve as an edge switch for core-to-edge SAN environments. The DS-300B integrates innovative hardware and software features that make it easy to deploy, manage, and integrate into a wide range of IT environments. It enables organizations to start small and grow their storage networks in a non-disruptive manner by providing state-of-the-art performance and Ports-on-Demand scalability. Organizations can deploy high-performance 8 Gb/s SFPs to meet today's increased application and performance demands. To further simplify deployment, the DS-300B features the EZSwitchSetup wizard and other usability and configuration enhancements.

### Specifications

System Architecture	
Features	Technical Specification
Fibre Channel Standards	FC-PH, FC-PH-2, FC-PH-3, FC-GS-2, FC-FLA, FC-FG, FC-SW3
Fibre Channel Ports	24 ports in 8-port increments through Ports-on-Demand licenses at 8, 16, and 24 universal (E, F, M, FL, or N) ports
Performance	Full line-speed switching at: <ul style="list-style-type: none"> <li>• 2.125 Gb/s line speed, full duplex</li> <li>• 4.25 Gb/s line speed, full duplex</li> <li>• 8.50 Gb/s line speed, full duplex</li> </ul> Auto-sensing of 2, 4, and 8 Gb/s port speeds Optionally programmable to fixed port speeds Speed matching between 2, 4, and 8 Gb/s ports
ISL Trunking	Frame-based trunking with up to eight 8 Gb/s ports per ISL trunk with optional license; up to 68 Gb/s per ISL trunk (8 ports x 8.5 Gb/s (line rate)) Exchange-based load balancing across ISLs with DPS included in Fabric OS
Aggregate Bandwidth	408 Gb/s: 24 ports x 8.5 Gb/s (line rate) x 2 (full duplex)
Maximum Fabric Latency	700 ns with no contention, cut-through routing at 8 Gb/s
Maximum Frame Size	2,112-byte payload

## System Architecture Cont'd.

Features	Technical Specification
Frame Buffers	700 dynamically allocated, 484 maximum per port
Class of Service	Class 2, Class 3, Class F (Interswitch Frames)
Port Types	FL_Port, F_Port, M_Port (Mirror Port), and E_Port; self-discovery based on switch type (U_Port); optional port type control
Data Traffic Types	Fabric switches supporting unicast, multicast (255 groups), and broadcast
Media Types	4 Gb/s Long-Wavelength Laser (LWL); 4 Gb/s Extended Long-Wavelength Laser (ELWL); distance depends on fiber-optic cable and port speed
USB	1 USB port for firmware download, support save, and configuration upload/download
Fabric Services	Simple Name Server (SNS); Registered State Change Notification (RSCN); NTP v3; Reliable Commit Service (RCS); Dynamic Path Selection (DPS); Brocade Advanced Zoning (default zoning, port/WWN zoning, broadcast zoning); NPIV; N_Port Trunking; FDMI; Management Server; FSPF; Fabric Watch; Extended Fabrics; ISL Trunking; Advanced Performance Monitoring; Adaptive Networking (per data flow QoS, Ingress Rate Limiting, Traffic Isolation Top Talkers; licensing varies); IPoFC, Frame Redirection, Port Fencing; BB credit recovery

## Connectivity Management

Features	Technical Specification
Interface	Telnet, HTTP, SNMPv1/v3 (FE MIB, FC Management MIB); Auditing, Syslog, Change Management tracking; EZSwitchSetup wizard; Web Tools; EMC Connectrix Manager Converged Network Edition 11.x; SMI-S compliant, SMI-S scripting toolkit, trail licenses for select add-on capabilities
Management Access	Call home integration 10/100 Ethernet (RJ-45), in-band over Fibre Channel; serial port (RJ-45); USB; call-home integration enabled through Connectrix
Security	SSL, SSH v2, HTTPS, LDAP, RADIUS, Role-Based Access Control (RBAC), DHCHAP (between switches and end devices), Port Binding, Switch Binding, Secure RPC, Secure Copy (SCP), Trusted Switch, IPSec, IP Filtering
Compatibility	All Connectrix B Series switches and directors
Diagnostics	POST and embedded online/offline diagnostics, including RAStace logging, environmental monitoring, non-disruptive daemon restart, FCping and Pathinfo (FC traceroute), port mirroring (SPAN port)
Physical Specifications Enclosure	Non-port to port-side airflow; 1 U, 19-inch EIA-compliant, power from port side
Size	Width: 42.88 cm (16.88 in) Height: 4.29 cm (1.69 in) Depth: 30.66 cm (12.07 in) System Weight: 4.2 kg (9.3 lb), without SFP/SFP+ media

Environment	
Features	Technical Specification
Temperature	Operating 0° C to 40° C (32° F to 104° F) Non-operating: -25° C to 70° C (-13° F to 158° F)
Relative Humidity	Operating: 10% to 85% non-condensing Non-operating and storage: 10% to 95% non condensing
Altitude (Feet/Meters)	Operating: Up to 3,000 meters (9,842 feet)
Shock	Operating: 20 G, 6 ms, half-sine Non-operating: Half-sine, 33 G 11 ms, 3/eg Axis
Vibration	Operating: 0.5 sine, 0.4 grms random, 5 to 500 Hz Non-operating: 2.0 G sine, 1.1 grms random, 5 to 500 Hz
Heat Dissipation	Maximum 24 ports: 195 BTU/hr
CO2 Emissions	210 kg per year (with 16 ports at .42 kg/kWh) 1.09 kg per Gb/s per year
Airflow	Maximum 23 CFM (cu. ft./min); nominal 18 CFM

Power Requirements	
Features	Technical Specification
Input Voltage	85 to 262 VAC nominal
Frequency	47 to 63 Hz
Power Consumption	Nominal 48 watts; maximum 57 watts with 24 ports at 8 Gb/s

Regulatory Requirements		
Country	Safety	EMI/EMC
United States	UL 60950	FCC Part 15 Class A
Canada	CSA No. 60950	ICES-003 Class A
Australia/New Zealand	N/A	EN550022
Japan	IEC 60950	VCCU Class A
International	IEC 60950	CSPR22 Class A



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