

EMC Connectrix MDS 9124 Switch

The EMC® Connectrix® MDS 9124 Fibre Channel switch supports up to 24 ports capable of speeds of 4, 2, and 1 gigabit (Gb) per second and offers cost-effective high availability, security, and ease-of-use in a compact 1-rack-unit (1RU) form factor. In addition, the MDS 9124 supports intelligent network services such as Virtual SANs (VSANs), PortChannels, quality of service (QoS), and security. The base configuration has eight active ports with the flexibility to upgrade to 24 ports in eight-port increments. The MDS 9124 is suitable as a stand-alone departmental switch and as an edge switch in core-edge SANs.

System Architecture

Fibre Channel Standards

FC-PH, FC-PH-2, FC-PH-3, FC-GS-2, FC-GS-3, FC-FLA, FC-FG, FC-SW-2, FC-AL, FC-AL-2, FC-PDLA, FC-VI, FCP, FCP-2, FC-SB-2, FC-BB, FC-FS, FC-P1, FC-MI, FC-TAPE

Fibre Channel Ports

Up to 24 ports; base unit ships with 8 active ports; upgrade to 24 ports in 8-port increments

Cascade maximum

Up to 24 switches, 3 hops, depending on configuration

Virtual SAN (VSAN) Support

Up to 16 VSANs

Performance

4 Gb/s, full duplex

Switch Core

Non-blocking

Classes of Service

Class 2, Class 3, Class F

Fibre Channel Port Types

F_Port, FL_Port, E_Port

Media Types

Hot-pluggable, industry-standard LC Small Form-factor Pluggable (SFPs). Short-wave laser up to 1,640 ft/500 meters. Long-wave laser up to 6.21 miles/10 km, 300 meters for 2 Gb/s

Fabric Services

Simple Name Server, Registered State Change Notification (RSCN), Login Services, Public Loop, Broadcast, In-order Delivery, Name Server Zoning

Hot-swappable Components

Power Supply, SFPs

Installation Options

19" EIA-compliant rack

Optional Features

Enterprise Package (No support for Inter-VSAN Routing)

Fabric Manager Server

Availability Features

Redundant AC Input (available with the addition of the optional power supply)

Hot-swappable power supplies (in redundant power supply configuration only)

Hot swappable fans and SFPs

Non-disruptive firmware upgrades

Stateful process restart

Per VSAN fabric services



Diagnostics and Troubleshooting Tools

Power-on-self-test (POST) diagnostics, online diagnostics, internal loopbacks, SPAN, Fibre Channel Traceroute capability, Fibre Channel Ping, Fibre Channel Debug, Cisco Fabric Analyzer, Syslog, Port-level statistics

Supported Operating Systems

AIX, HP/UX, Microsoft Windows, Linux

Refer to the EMC Support Matrix on www.EMC.com for complete details.

Management

Interface

- Cisco Fabric Manager and Device Manager
- Cisco Fabric Manager Server (Optional license)
- SNMP support
- Scriptable CLI

Access Methods Out-of-band 10/100 Ethernet port, EIA/TIA-232 serial console port, In-band IP over Fibre Channel

Access Protocols CLI, SNMP, SMI-S

Security RBACL using RADIUS or TACACS+ authentication and accounting (AAA) functions, VSAN-based roles, SSHv2, SSHv3

Physical Specifications

Dimension	Height (in/cm)	Width (in/cm)	Depth (in/cm)	Weight (lb/kg)
	1.75/4.5	17.5/44.5	16/40.6	18.5/8.4

Environmental Specifications

Ambient Operating Temperature	32 to 104°F (0 to 40°C)
Ambient Non-operating Temperature	-40 to 158°F (-40 to 70°C)

Power

Power supplies (300 W AC) (maximum 2 per switch)

Input: 100 to 240 VAC nominal (+/- 10% for full range)

Input current maximum 20 A

Input current steady state: 4 A @110 VAC, 2 A @ 220 VAC, 50 to 60 Hz nominal (+/-3 Hz for full range)

Output: 300 W @100 VAC, 300 W @ 220 VAC

Airflow: Front to rear

Safety

- UL 60950 -1
- CAN/CSA-C22.2 No. 60950 -1
- EN 60950 -1
- IEC 60950 -1
- AS/NZS 60950
- IEC 60825
- EN 60825
- 21 CFR 1040

EMC

- FCC Part 15 (CFR 47) Class A
- ICES-003 Class A
- EN55022 Class A
- CISPR22 Class A
- AS/NZS CISPR22 Class A
- VCCI Class B
- EN55024
- ETS300 386
- EN50082-1
- EN61000-3-2
- EN61000-3-3

- EN61000-6-1
- CISPR24
- NEBS
- GR-63-Core NEBS Level 3
- GR-1089-Core NEBS Level 3
- ETSI
- ETS 300 019 Storage Class 1.1
- ETS 300 019 Transportation Class 2.3
- ETSI 300 019 Stationary Use Class 3.1

Regulatory Specifications

Product Ecology

- Restriction of Hazardous Substances in Electrical and Electronic Equipment (ROHS) Directive 2002/95/EC
- Waste Electrical and Electronic Equipment (WEEE) Directive (2002/96/EC)



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Specification Sheet
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