

Cisco® MDS 9134 Multilayer Fabric Switch

Provides up to 64 X 4 Gb/s fiber channel ports



The Cisco® MDS 9134 Multilayer Fabric Switch offers advanced storage networking capabilities for the midrange market, allowing organizations of all sizes to enjoy the benefits of intelligent Storage Area Networks (SANs). It is ideally suited as a standalone or top-of-the-rack switch or in a stack using a 10-Gbps copper connection.

Highlights

- Supports 32 line-rate 4 Gb/s and 2 line-rate 10 Gb/s dedicated Fibre Channel ports
- Has immediately active capabilities, including Quick Configuration Wizard support and task wizards, that allow it to be easily deployed in multiple topologies in any size of network
- Offers an on-demand port activation license, making port activation quick and easy
- Shares features and the same Cisco MDS 9000 SAN-OS Software with the Cisco MDS 9500 Series Multilayer Directors and Cisco MDS 9200 and 9100 Series Multilayer Fabric Switches
- Offers competitive pricing with enterprise-class capabilities: VSANs, PortChannels, redundant power supplies and cooling fans, nondisruptive software upgrades, comprehensive security (Authentication, Authorization, and Accounting [AAA], Role-Based Access Control [RBAC], etc.), troubleshooting, and diagnostics

Solutions

The Cisco MDS 9134 can be used as the foundation of small standalone SANs, as a top-of-the-rack switch, or as an edge switch in large core-edge SAN infrastructures. Additionally, the Cisco MDS 9134 can be stacked in pairs to form a 48-port or 64-port 4 Gb/s Fibre Channel switch.

Single-Switch SAN Deployments

The Cisco MDS 9134 is designed to address the needs of Small and Medium-sized Businesses (SMBs), helping them deploy cost-effective yet scalable high-performance SANs. It is also ideal for branch offices and departments in large enterprises.

Datacenter Core-Edge Deployments

The Cisco MDS 9134 is fully compatible with the Cisco MDS 9500 Series directors and Cisco MDS 9200 and 9100 Series switches for transparent, end-to-end service delivery in large datacenter core-edge deployments.

Key features and benefits

- **Exceptional flexibility and scalability:** The Cisco MDS 9134 offers up to 32 4-, 2-, and 1-Gb/s autosensing Fibre Channel ports in a compact One-Rack-Unit (1RU) form-factor

chassis. With 4 Gb/s of dedicated bandwidth for each port, the Cisco MDS 9134 is designed to address the performance and scalability requirements for the most demanding environments.

- **Integrated IBM Fibre Connection (FICON) connectivity support.** The Cisco MDS 9134 supports IBM zSeries FICON and Linux environments. Qualified by IBM for attachment to all FICON-enabled devices in an IBM zSeries operating environment, the switch supports transport of the FICON protocol in cascaded fabrics, as well as intermix of FICON and open systems Fibre Channel Protocol (FCP) on the same switch.
- **On-demand port activation license:** The on-demand port activation license provides 24-port and 32-port configurations to optimize price and scalability.
- **Quick Configuration Wizard:** The Quick Configuration Wizard helps eliminate management complexity and creates an immediately available SAN environment for SMB applications. The wizard allows server access to storage to be enabled quickly and easily in a single step, using an intuitive GUI.

- **Virtual SANs (VSANs) for segmentation and isolation:** VSAN, an industry standard for fabric virtualization capabilities, enables more efficient storage network utilization by creating hardware-based isolated environments within a single physical SAN fabric or switch.
- **Advanced traffic management for high-performance, resilient SANs:** Advanced traffic management capabilities integrated into the Cisco MDS 9134 switch simplify deployment and optimization of core-edge fabrics.
- **Advanced diagnostics and troubleshooting tools:** The Cisco MDS 9134 provides the integrated hardware functions required to implement diagnostic capabilities such as Fibre Channel Traceroute for tracing the exact path and timing of flows and Switched Port Analyzer (SPAN) to intelligently capture network traffic.
- **Comprehensive security:** In recognition of the need for stringent security in storage networks, the Cisco MDS 9134 offers an extensive security framework to protect highly sensitive data crossing today's enterprise networks.
- **High-availability platform for mission-critical environments:** Nondisruptive software upgrades, hot-swappable, redundant fans and power supplies, and the unique capability to automatically restart failed processes combine to define a new standard for fabric switch availability.
- **Simplified management:** The Cisco MDS 9134 provides three principal modes of management: Cisco MDS 9000 family command-line interface (CLI), Cisco Fabric Manager, and integration with third-party storage management tools.

Learn More.

To learn more about Cisco MDS 9134 Multilayer Fabric Switch, visit sun.com/storagetek/networking

Cisco MDS 9134 Product Specifications

Item	Specification
Software Compatibility	<ul style="list-style-type: none"> • Cisco MDS 9000 SAN-OS Software Release 3.2(1) or later
Ports	<ul style="list-style-type: none"> • 32 fixed autosensing 4, 2, and 1 Gb/s Fibre Channel ports • Two fixed 10 Gb/s Fibre Channel ports • Base switch has 24 ports active; additional 8 ports or two 10 Gb/s ports activated on demand using the port license • SFPs sold separately for 4 Gb/s ports (initial configuration can be set for Short Wave (SW), Long Wave (LW), or a mix of both) • For 10 Gb/s ports, copper CX4 used for stacking and X2 optics used for connecting to SAN core
Performance	<ul style="list-style-type: none"> • Port speed: 4, 2, and 1 Gb/s autosensing, optionally configurable • 10 Gb/s for 10 Gb/s ports • Buffer credits: 16 per port for 4 Gb/s ports and 64 per port for 10 Gb/s ports • Ports per chassis: 32 4 Gb/s ports and two 10 Gb/s Fibre Channel ports
Network Management	<ul style="list-style-type: none"> • Access methods: Out-of-band 10/100 Ethernet port and RS-232 serial console port with DB-9 • Access protocols: CLI through console and Ethernet ports and Simple Network Management Protocol Version 2 (SNMPv2) through Ethernet • Network security: Secure Shell Version 2 (SSHv2) and SNMPv2 • Management applications: Cisco MDS 9134 CLI, Cisco Fabric Manager, and Cisco Device Manager
Power	<ul style="list-style-type: none"> • Integral power supply • AC input characteristics: 100 to 240 VAC (10 percent range); 50 to 60 Hz (nominal) • Power consumption: 99W maximum; 0.99A at 100 VAC and 0.45A at 220 VAC

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