



Cisco MDS 9124 24-Port Multilayer Fabric Switch

Advanced storage networking capabilities at entry-level price points, allowing organizations of all sizes to enjoy the benefits of intelligent SANs.

Figure 1. Cisco MDS 9124 24-Port Multilayer Fabric Switch



Product Highlights

The high-performance Cisco® MDS 9124 supports 4-Gbps dedicated Fibre Channel ports.

The MDS 9124 has plug-and-play capabilities, including “Quick Configuration Wizard” support and Task Wizards, that allows it to be easily deployed in any size network.

The “on-demand” port activation license makes port activation faster.

The Cisco MDS 9124 shares common features and the same Cisco MDS 9000 NX-OS Software with the Cisco MDS 9500, 9200, and 9100 Series multilayer switches and directors.

It is competitively priced with enterprise-class capabilities: VSANs, PortChannels, nondisruptive code upgrade and comprehensive security (AAA, RBAC, etc.), troubleshooting, and diagnostics.

Solutions

The Cisco MDS 9124 can be used as the foundation of small standalone SANs or as an edge switch in larger core-edge SAN infrastructures.

Single-Switch SAN Deployments

The Cisco MDS 9124 is designed to address the needs of small and medium-sized businesses, helping them to deploy cost-effective but scalable, high-performance SANs. It is also ideal for branch offices and departments in large enterprises.

Data Center Core-Edge Deployments

The Cisco MDS 9124 is fully compatible with the Cisco MDS 9500 Series Multilayer Directors and the Cisco MDS 9200 and 9100 Series Multilayer Fabric Switches for transparent, end-to-end service delivery in large data center core-edge deployments.

Product Features and Benefits

Exceptional Flexibility and Scalability—The MDS 9124 offers up to 24 4/2/1-Gbps auto-sensing Fibre Channel ports in a compact 1RU form-factor chassis. With dedicated 4 Gbps of dedicated bandwidth for each port, the MDS 9124 has been designed to address the performance and scalability requirements for the most demanding environments.

“On-demand” port activation license—Provides 8-port, 16-port, and 24-port configurations to optimize price and scalability.

Quick Config Wizard—The Quick Config Wizard that helps eliminate management complexity and create a plug-n-play SAN environment for small and medium business applications. The wizard allows server access to storage to be enabled quickly and easily in a single step, using an intuitive graphical user interface.

Virtual SANs for Segmentation and Isolation—VSANs, an industry standard for fabric virtualization capabilities, allow 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 9124 fabric switch simplify deployment and optimization of core edge fabrics.

Advanced Diagnostics and Troubleshooting Tools—Cisco MDS 9124 provides the integrated hardware functionality required to implement diagnostic capabilities such as FC Traceroute for detailing the exact path and timing of flows and SPAN to intelligently capture network traffic.

Comprehensive Security—Recognizing the need for airtight security in storage networks, the Cisco MDS 9124 offers an extensive security framework to protect highly sensitive data crossing today’s enterprise networks.

High Availability Platform for Mission-Critical Environments—Non-disruptive software upgrades, hot-swappable, redundant fans and power supplies, and the unique ability to automatically restart failed processes combine to define a new standard for fabric switch availability.

Simplified Management—The Cisco MDS 9124 provides three principal modes of management: Cisco MDS 9000 Family CLI, Cisco Fabric Manager, and integration with third-party storage management tools.



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Product Specifications

Product	Specifications												
Software Compatibility	Cisco MDS 9000 SAN-OS Software Release 31.1(1) or later Cisco MDS 9000 NX-OS Software Release 41(1) or later												
Ports	24 fixed auto-sensing 4/2/1-Gbps Fibre Channel ports Base Switch will have 8 ports active. Additional 8 ports can be activated on demand using the 8-port license. Two 8-port licenses will activate all 24 ports. * SFP's sold separately												
Performance	<ul style="list-style-type: none"> • Port speed: 4/2/1-Gbps auto-sensing, optionally configurable • Buffer credits: 16 per port • Ports per chassis: Twenty-four 4-, 2-, 1-Gbps Fibre Channel ports • Supported optics, media, and transmission distances: <table border="1"> <thead> <tr> <th>Optics</th> <th>Media</th> <th>Distance</th> </tr> </thead> <tbody> <tr> <td>• 4 Gbps—SW, LC SFP</td> <td>• 50/125 micron multimode</td> <td>• 150m</td> </tr> <tr> <td>• 4 Gbps—SW, LC SFP</td> <td>• 62.5/125 micron multimode</td> <td>• 70m</td> </tr> <tr> <td>• 4 Gbps—LW, LC SFP</td> <td>• 9/125 micron single-mode</td> <td>• 10 km</td> </tr> </tbody> </table> <p>* Initial configuration can be set for SW, LW or a mix of both</p>	Optics	Media	Distance	• 4 Gbps—SW, LC SFP	• 50/125 micron multimode	• 150m	• 4 Gbps—SW, LC SFP	• 62.5/125 micron multimode	• 70m	• 4 Gbps—LW, LC SFP	• 9/125 micron single-mode	• 10 km
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Network Management	<ul style="list-style-type: none"> • Access methods: Out-of-band 10/100 Ethernet port, RS-232 serial console port with DB-9 • Access protocols: CLI through console and Ethernet ports, SNMPv2 through Ethernet • Network security: SSHv2 Protocol v2 and SNMPv2 • Management applications: Cisco MDS 9124 CLI, Cisco Fabric Manager, Cisco Device Manager 												
Power	<ul style="list-style-type: none"> • Integral power supply • AC input characteristics: 100 to 240 VAC (10% range), 50 to 60 Hz (nominal), 300W • Optional dual power supply capability 												

* Detailed product specification can be obtained from the Cisco MDS 9124 data sheet.

* SFP's sold separately—initial configuration can be set for SW, LW or a mix of both.

Ordering Information

Product Description	Part Number
Cisco MDS 9124 24-Port Multilayer Fabric Switch	DS-C9124-K9
Cisco MDS 9124 On-Demand Ports (8), 4-Gbps Activation License	M9124PL8-4G and M9124PL8-4G=
Electronic Delivery version of Cisco MDS 9124 On-Demand Ports (8), 4-Gbps Activation License	L-M9124PL8-4G=
Optional Redundant Power Supply	DS-C24-300AC=
Small Form-Factor Pluggable (SFP) Optics Options	
Cisco MDS 9000 4/2/1-Gbps Fibre Channel—SW, SFP, LC	DS-SFP-FC4G-SW
Cisco MDS 9000 4/2/1-Gbps Fibre Channel—LW, SFP, LC	DS-SFP-FC4G-LW
Spare Components	
Cisco MDS 9000 4/2/1-Gbps Fibre Channel—SW, SFP, LC, Spare	DS-SFP-FC4G-SW=
Cisco MDS 9000 4/2/1-Gbps Fibre Channel—LW, SFP, LC, Spare	DS-SFP-FC4G-LW=

For More Information

For more information about the Cisco MDS 9124, visit <http://www.cisco.com/go/9124> or contact your local account representative.