

Cisco Data Center Is Anywhere Your Data Is





Cisco MDS 9700 SAN Directors

Brief overview

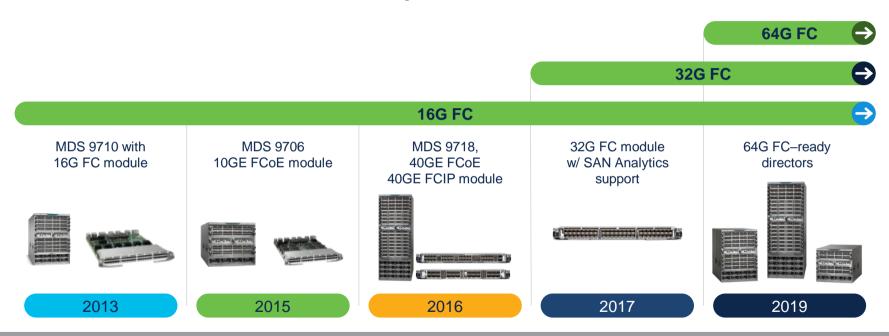
Bhavin Yadav Technical marketing engineer March 25, 2020

Cisco MDS SAN Directors

Cisco MDS 9700 Series Multilayer Directors



Cisco storage networking: Pioneers of investment protection



Industry's first 64G FC-ready directors with built-in analytics support

Cisco MDS 9000 Series switch family – overview

Line-rate, nonblocking, non-oversubscribed, since 2013

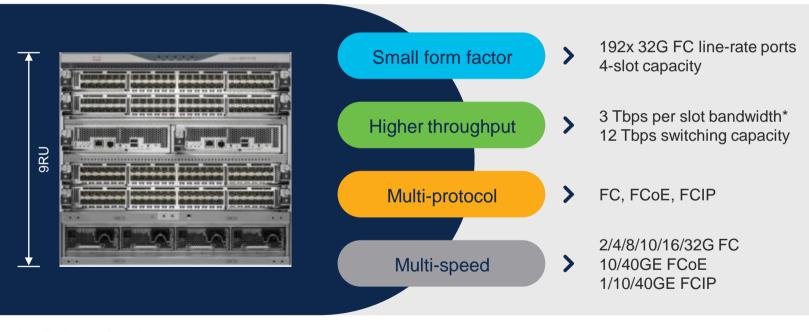
SAN Directors 26RU MDS 9718 16 slots SAN Directors 14RU MDS 9706 4 slots

- Built-in SAN Analytics support*
- Next-generation (64G FC) ready chassis
- · Security using anti-counterfeit technology
- · Transparent NVMe/FC integration
- · Automation using Ansible, Splunk, OpenStack, etc.
- Built-in redundancy and flexibility combined with high availability



Cisco MDS 9706 Multilayer Director Powerful small-form-factor director





^{*} Using Fabric-3 and Supervisor-4 modules

Cisco MDS 9710 Multilayer Director Industry-leading reliability

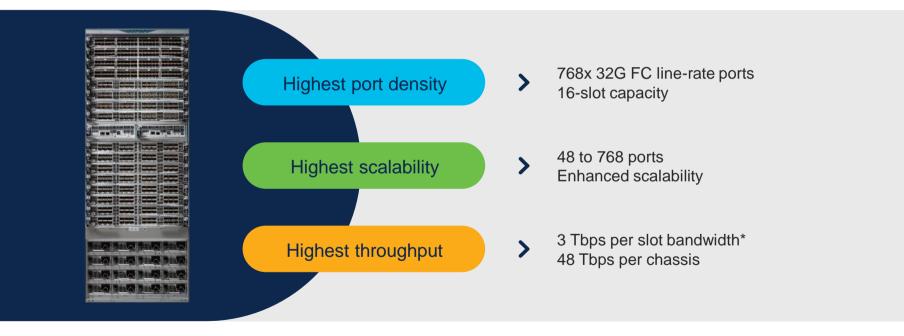




^{*} Using Fabric-3 and Supervisor-4 modules

Cisco MDS 9718 Multilayer Director Industry's highest-density director





^{*} Future support

New modules for MDS 9706 and MDS 9710

Cisco MDS 9700 Series Supervisor-4 Module chassis

 Common supervisor for Cisco MDS 9700 Series chassis

- Single 8-core Intel® Broadwell processor
 - Twice the performance of the Supervisor-1 module

Fabric-3 module for MDS 9706 and MDS 9710

The next-generation fabric module for the MDS 9706 and MDS 9710 chassis



Benefits

- · Double bandwidth compared to Fabric-1 module
- Only 3x Fabric-3 modules are required for 32G line cards
- 6x Fabric-3 modules will support future 64G line cards

Nondisruptive upgrade support

Supported combinations in Cisco MDS 9700 chassis (Supervisor modules and fabric modules in MDS 9700 chassis)

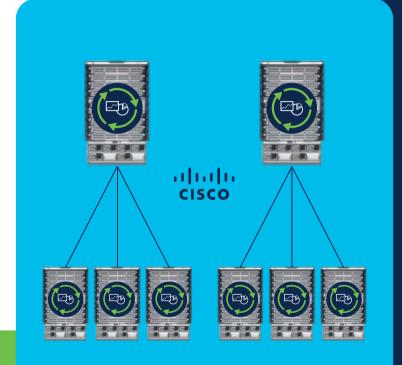
Combination	Supervisor-1 module	Supervisor-4 module	Fabric-1 module	Fabric-3 module
Supervisor-1 module	✓	×	✓	×
Supervisor-4 module	×	✓	×	✓
Fabric-1 module	✓	×	~	×
Fabric-3 module	×	✓	×	✓

Software innovations

Cisco SAN Analytics: Simple and secure

- Simplified solution (No professional services are needed.)
- Secure solution (Data never leaves the switch.)
- Install in seconds, operationalize in minutes
- Easy third-party integration
- No cabling, devices, or ports needed
- Low-cost, affordable solution
- Free 120-day switch evaluation

Cisco® 32Gbps MDS SAN product family



Switch-native line-rate SAN Analytics









Pervasive | No appliance | No probes | Always on



High-performance onboard analytics engine



Simplified and secure solution



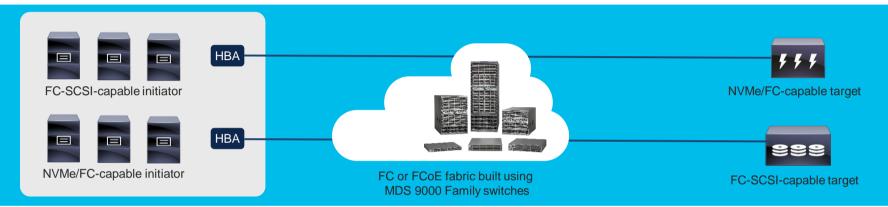
Proactive identification of issues



Scale with MDS 9700 Director or fabric switch

Transparent NVMe/FC integration





No

Additional license additional configuration

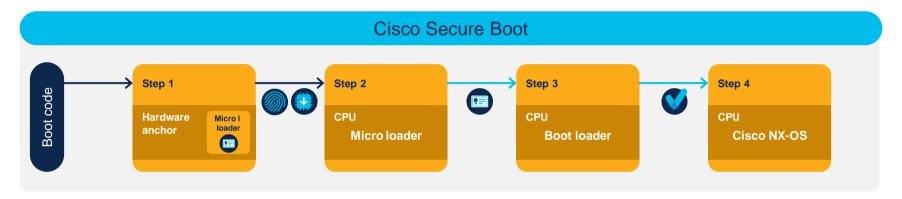
Supported across

platforms

Transparent integration
End-to-end visibility (analytics)
Supported across MDS portfolio



Anti-counterfeit technology and Cisco Secure Boot



- · Anti-counterfeit technology using built-in security chip
- Software authentication using SUDI (Secure Device Identifier)
- Run genuine Cisco hardware using genuine Cisco software–transparent integration



Software features



SAN Analytics



Investment protection



Security



Automation

- Built-in, on-switch packet visibility with streaming
- Next-generation (64G FC) ready chassis
- Cisco Secure Boot and anti-counterfeit technology

OpenStack, Restful API, Ansible, AutoZone

Additional resources

Additional resources

- <u>Cisco MDS 9700 Series</u>
 Multilayer Directors data sheet
- Cisco NX-OS data sheet
- Interoperability guide
- Supported optics guide

- Cisco NX-OS configuration guides
- Cisco NX-OS programmability guide
- Release notes
- White papers

Additional resources

Cisco MDS 9000 Series Multilayer Switches/Cisco Data Center Network Manager (DCNM) videos:

- https://www.youtube.com/user/ciscomds9000/videos or
- https://www.youtube.com/user/Cisco/videos

Pre-sales videos:

- Cisco MDS 9700 with 32G FC and Integrated Analytics
- Cisco MDS and UCS better together

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