# Cisco MDS 9700 Series

## Multilayer SAN Directors

### Primary benefits

- **Investment protection**
- **Integrated SAN analytics**
- **Superior performance**
- **High scalability**
- **Consistent reliability**
- **Built-in hardware based security**
- **Multiprotocol flexibility**
- **Automation and programmability**

## Primary Features

- Enables future 64G FC transition with backward compatibility up to 2/4/8/10/16/32G FC speeds
- Enables End to End visibility using integrated SAN Analytics for FC-SCSI and NVMe/FC
- Simplify provisioning and management using programmable interfaces and DevOps tools including Ansible, Restful APIs, Openstack, etc.
- Non-stop operation using built-in component level redundancy of hardware, in-service software upgrades with built-in availability and redundancy of the MDS architecture
- Consolidation of Edge-Core for simplified management
- SAN and IT automation using Ansible, OpenStack, Restful API, etc.
- Secure-boot and anti-counterfeiting technology integration

### Use Case

**Use Case**

- **For medium to large-size enterprises**
- **Enable edge and core or dual core on single chassis**

## Build an agile storage network infrastructure to easily manage massive amounts of data over NVMe/FC

### Cisco MDS 9718 Multilayer Director

- 768x 32G FC Linerate ports
- 768x 10GE FCoE ports
- 384x 40GE FCoE ports
- 128x 1/10GE FCIP ports
- 32x 40GE FCIP ports
- 64G FC Ready

### Cisco MDS 9710 Multilayer Director

- 384x 32G FC ports
- 384x 10GE FCoE ports
- 192x 40GE FCoE ports
- 64x 1/10GE FCIP ports
- 16x 40GE FCIP ports
- 64G FC Ready

### Cisco MDS 9706 Multilayer Director

- 192x 32G FC ports
- 192x 10G FCoE ports
- 96x 40GE FCoE ports
- 32x 1/10GE FCIP ports
- 8x 40GE FCIP ports
- 64G FC Ready

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## Use Cases

- **Cisco MDS 9132T 32-Port 32G FC Multilayer Fabric Switch**
  - Smallest form factor 32-Gbps entry level FC Switch
  - Cost effective semi-modular design

- **Cisco MDS 9148T 48-Port 32G FC Multilayer Fabric Switch**
  - Top-of-rack switch for small to large enterprises
  - Higher scale and performance for Dense server racks

- **Cisco MDS 9396T 96-Port 32G FC Multilayer Fabric Switch**
  - Top-of-rack or end-of-row deployment
  - Director class density, scale for large enterprise POD deployments

## Primary Features

**Cisco MDS 9148S 48-Port 16G FC Fabric Switch**

- 2-/4-/8-/16-Gbps host connectivity
- Ideal for deployment for legacy environments

**Cisco MDS 9396S 16G 96-Port FC Fabric Switch**

- Standalone SAN in large departmental environments
- Middle-of-row or top-of-rack switch in medium-sized fabrics
- An edge switch in enterprise data center core-edge topologies

**Cisco MDS 9250i 16G Multiservice Fabric Switch**

- Fixed FCIP SAN extension solution
- IO Acceleration for Arrays and Tapes
- FC compression for low bandwidth links

## Primary Features

**Cisco MDS 9132T 32-Port 32G FC Multilayer Fabric Switch**

- NVMe/FC ready with zero touch Auto-zoning, automation support using Ansible, OpenStack, Restful APIs. Integrated SAN analytics (SCSI / NVMe/FC) and Enterprise class features like Secure-boot and anti-counterfeiting technology, Bi-directional airflow, End-to-End Enhanced SAN diagnostic suite for deploying 4-/8-/16-/32-Gbps Fibre Channel SANs.

**Cisco MDS 9148T 48-Port 32G FC Multilayer Fabric Switch**