

# Cisco Nexus 9396Y(/T)-SE1 Switches

## READ ME FIRST

Nov 24, 2025

---

# Contents

Introduction .....	2
Scope .....	2
Positioning .....	2
Supported Features .....	2
Cisco Nexus Dashboard Support .....	4
Software Releases .....	4
Platform Hardware .....	5
Additional Resources .....	5
Blogs .....	<b>Error! Bookmark not defined.</b>
Documentation Feedback .....	5
Legal Information .....	5

## Introduction

The Cisco Nexus\* N9396Y12C-SE1 and N9396T12C-SE1 (9396Y(/T)12C-SE1) Switches belong to the fixed Cisco Nexus 9000 platform based on the most advanced Cisco Silicon One ASIC in a 2-RU form factor. The platform is built on modern system architecture designed to provide high performance and meet the evolving needs of highly scalable data centers and growing enterprises.

## Scope

This document summarizes the current capabilities of the N9396Y(/T)12C-SE1 switches, including the current software features and hardware products.

## Positioning

These switches support 96x10G ports (QSFP (Y) and Copper (T) variants), 12x100G QSFP28 ports and use Cisco Silicon One™ ASIC. For data center architects and enterprise network professionals requiring scalable, high-throughput switching solutions, the Cisco Nexus 9396Y(/T)12C-SE1 is a powerful, fixed-port 2RU Top-of-Rack switch built on advanced Cisco Silicon One technology. With 36 ports supporting 40/100 Gbps speeds and flexible breakout options down to 10/25 Gbps, it delivers high bandwidth capacity, robust Layer 2/3 scalability, and intelligent buffering to support dynamic, virtualized, and automated data center environments. The Nexus switches enable secure, agile, and programmable network fabrics optimized for modern hybrid cloud infrastructures and policy-driven deployments.

## Supported Features

Beginning with the NX-OS Release 10.6(2)F, the Cisco Nexus N9396Y12C-SE1 and N9396T12C-SE1 switches support these software features:

Feature Type	Description
Network Interfaces and Speeds	<ul style="list-style-type: none"> <li>• 100G, 10G</li> <li>• Breakouts: 4x 25G, 2x 50G</li> <li>• L3 Routed, Routed sub (native &amp; PC)</li> <li>• SVI support</li> <li>• VLAN, Access, Trunk</li> </ul>
L2	<ul style="list-style-type: none"> <li>• DHCP relay</li> <li>• QinQ</li> <li>• SVI support</li> <li>• UDLD</li> <li>• Port Channels (PC), VPC</li> <li>• ELAM</li> <li>• ICAM</li> <li>• RSTP, MSTP</li> <li>• LACP, LLDP</li> </ul>
Unicast Routing/ L3 (IPv4 and IPv6)	<ul style="list-style-type: none"> <li>• BGP, OSPF, EIGRP, ISIS, BFD (Single Hop), VRF, RIP</li> <li>• ECMP</li> <li>• 8192 ECMP groups, 512-way ECMP</li> <li>• Ip directed broadcast</li> <li>• uRPF</li> <li>• Static routing</li> <li>• HSRP, VRRP</li> <li>• Ip unnumbered (non-SVI)</li> </ul>
Multicast	<ul style="list-style-type: none"> <li>• L2/L3 IPv4 Multicast PIM (ASM, SSM)</li> <li>• L3-Phy, PO, SI, SVI, vPC</li> <li>• L2- PO</li> <li>• IGMP Snooping</li> <li>• Flow path visibility</li> <li>• Multicast route-aliveness</li> <li>• Hitbit, Route statistics (pkts, bytes)</li> </ul>
MPLS/SR	<ul style="list-style-type: none"> <li>• SR-MPLS Underlay</li> <li>• SR-MPLS L3EVPN</li> <li>• SR-MPLS to VxLAN Handoff</li> </ul>
Quality of Service	<ul style="list-style-type: none"> <li>• Classification and Marking</li> <li>• Queuing and Scheduling</li> <li>• CoPP, Custom CoPP</li> <li>• 1R2C</li> </ul>
Network Security	<ul style="list-style-type: none"> <li>• AAA, RADIUS, TACACS+</li> <li>• Ingress PACL</li> <li>• Ingress and egress RACL (IPv4/V6)</li> <li>• SSH Protocol Version 2</li> <li>• SNMPv3</li> <li>• PBR</li> <li>• MACsec</li> </ul>

Telemetry and Monitoring	<ul style="list-style-type: none"> <li>• SNMPv2</li> <li>• Software Telemetry <ul style="list-style-type: none"> <li>◦ DME data collection</li> <li>◦ NX-API data sources</li> <li>◦ Google protocol buffer (GPB) encoding over Google Remote Procedure Call (gRPC) transport</li> <li>◦ JSON encoding over HTTP</li> </ul> </li> <li>• sFlow</li> <li>• gNMI support</li> <li>• SPAN, SPAN on Drop, ERSPAN</li> </ul>
VXLAN	<ul style="list-style-type: none"> <li>• VXLAN EVPN v4/v6</li> <li>• Multicast/ IR</li> <li>• TRMv4</li> <li>• DSVNI</li> <li>• Multisite with Anycast border gateway</li> <li>• Multisite with vPC border gateway</li> <li>• vPC and vPC Fabric Peering</li> <li>• NGOAM</li> <li>• L3 physical port and L3PO as fabric uplinks</li> <li>• IGMP snooping with or without TRMv4</li> </ul>
Programmability	<ul style="list-style-type: none"> <li>• Open NX-OS automation</li> <li>• Open and Native YANG Models <ul style="list-style-type: none"> <li>◦ NETCONF, RESTCONF, gNMI</li> </ul> </li> <li>• Python API</li> <li>• Tcl</li> <li>• Cisco NX-API</li> </ul>
Upgrade	<ul style="list-style-type: none"> <li>• POAP</li> <li>• GIR</li> <li>• Disruptive ISSU</li> </ul>
Licensing	<ul style="list-style-type: none"> <li>• Premier, Advantage and Essentials License for appropriate features</li> </ul>

## Cisco Nexus Dashboard Support

Nexus Dashboard (ND) can provide management and automation for Cisco Nexus N9396Y12C-SE1 and N9396T12C-SE1 in external fabrics in ND 4.1

## Software Releases

**Table 1.** Software Releases

NX-OS Release	Description
10.6(2)F	Release 10.6(2) was the first release to enable support for Cisco Nexus N9396Y12C-SE1 and N9396T12C-SE1 switches.

---

## Platform Hardware

The Nexus 9300 Series includes many switch chassis. For a complete list of 9300 series switches, see [Cisco Nexus 9000 Series Switches Install and Upgrade Guides](#).

The site lists the currently available Nexus 93xxx Series switches, line cards, and accessories. For expanded details about these hardware products, see:

- [Cisco Nexus 9336C-SE1 Data Sheet](#)
- Cisco Nexus N9396Y12C-SE1 Data Sheet
- Cisco Nexus N9396T12C-SE1 Data Sheet

## Additional Resources

- [Cisco Nexus 9000 Series Switches Install and Upgrade Guides](#)
- [Cisco Nexus 9000 Series Switches Configuration Guides](#)
- [Cisco Nexus 9000 Series NX-OS Verified Scalability Guides](#)
- [Cisco NextGen DCI Blueprint](#)
- [Cisco Optics-to-Device Compatibility Matrix](#)

## Documentation Feedback

To provide technical feedback on this document, or to report an error or omission, send your comments to [nexus9k-docfeedback@cisco.com](mailto:nexus9k-docfeedback@cisco.com). We appreciate your feedback.

## Legal Information

Cisco and the Cisco logo are trademarks or registered trademarks of Cisco and/or its affiliates in the U.S. and other countries. To view a list of Cisco trademarks, go to this URL: <http://www.cisco.com/go/trademarks>. Third-party trademarks mentioned are the property of their respective owners. The use of the word partner does not imply a partnership relationship between Cisco and any other company. (1110R)

Any Internet Protocol (IP) addresses and phone numbers used in this document are not intended to be actual addresses and phone numbers. Any examples, command display output, network topology diagrams, and other figures included in the document are shown for illustrative purposes only. Any use of actual IP addresses or phone numbers in illustrative content is unintentional and coincidental.