

# Cisco Nexus 9348Y12C-SE1 Switches

## READ ME FIRST

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## Introduction

The Cisco Nexus N9348Y12C-SE1 switch belongs to the fixed Cisco Nexus 9000 platform based on the most advanced Cisco Silicon One ASIC in a 1-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 N9348Y12C-SE1 switch, including the current software features and hardware products.

## Positioning

For data center architects and enterprise network professionals requiring scalable, high-throughput switching solution in compact form factor, the Cisco Nexus 9348Y12C-SE1 is a powerful, fixed-port 1RU Top-of-Rack switch built on advanced Cisco Silicon One technology. The Cisco N9348Y12C-SE1 switch is a 1RU switch that supports 5.6 Tbps of bandwidth. The 32 ports of downlinks support 1/10/25-Gbps and 16 ports support 1/10/25/50-Gbps. The 12 uplink ports can be configured as 40- and 100-Gbps ports, offering flexible migration options.

## Supported Features

Beginning with the NX-OS Release 10.6(3)F, the Cisco Nexus N9348Y12C-SE1 switch supports these software features:

Feature Type	Description
Network Interfaces and Speeds	<ul style="list-style-type: none"><li>• 100G, 50G, 40G, 25G, 10G, 1G</li><li>• Native 50G SFP Links supported on the bottom-most ports (3, 6, 9, 12, till 48)</li></ul>

Feature Type	Description
	<ul style="list-style-type: none"> <li>• L3 Routed, Routed sub (native &amp; PC)</li> <li>• SVI support</li> </ul> VLAN, Access, Trunk
L2	<ul style="list-style-type: none"> <li>• DHCP relay</li> <li>• QinQ/QinQ Multi Tag support</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> <li>• Static MAC and Learn Disable support</li> <li>• Port VLAN translation</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> <li>• Proxy ARP</li> <li>• SVI Autostate</li> <li>• Symmetric Hashing</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> <li>• IPv6 Multicast/MLD Snooping</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>• Interface QoS support for QoS classification policies</li> <li>• 1R2C</li> </ul>
Network Security	<ul style="list-style-type: none"> <li>• AAA, RADIUS, TACACS+</li> <li>• Ingress PAACL</li> <li>• Ingress and egress RAACL (IPv4/V6)</li> </ul>

Feature Type	Description
	<ul style="list-style-type: none"> <li>• SSH Protocol Version 2</li> <li>• SNMPv3</li> <li>• PBR</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> <li>• ND Suppression</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>

- *Breakout Support: Breakout is not supported on this switch.*
- *Auto-negotiation is not supported on this switch.*
- *IG supported only on downlink ports.*

## Cisco Nexus Dashboard Support

Nexus Dashboard (ND) can provide management and automation for Cisco Nexus N9348Y12C-SE1 in external fabrics in ND 4.1

## Software Releases

**Table 1.** Software Releases

NX-OS Release	Description
10.6(3)F	Release 10.6(3) was the first release to enable support for Cisco Nexus N9348Y12C-SE1 switch.

## 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 9300-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.

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