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	• 100G, 50G, 40G, 25G, 10G, 1G • Native 50G SFP Links supported on the bottom-most ports (3, 6, 9, 12, till 48)

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Feature Type	Description
	• L3 Routed, Routed sub (native & PC) • SVI support • VLAN, Access, Trunk
L2	• DHCP relay • QinQ/QinQ Multi Tag support • SVI support • UDLD • Port Channels (PC), VPC • ELAM • ICAM • RSTP. MSTP • LACP, LLDP • Static MAC and Learn Disable support • Port VLAN translation
Unicast Routing/ L3 (IPv4 and IPv6)	• BGP, OSPF, EIGRP, ISIS, BFD (Single Hop), VRF, RIP • ECMP • 8192 ECMP groups, 512-way ECMP • Ip directed broadcast • uRPF • Static routing • HSRP, VRRP • Ip unnumbered (non-SVI) • Proxy ARP • SVI Autostate • Symmetric Hashing
Multicast	• L2/L3 IPv4 Multicast PIM (ASM, SSM) • L3-Phy, PO, SI, SVI, vPC • L2- PO • IGMP Snooping • Flow path visibility • Multicast route-aliveness • Hitbit, Route statistics (pkts, bytes) • IPv6 Multicast/MLD Snooping
MPLS/SR	• SR-MPLS Underlay • SR-MPLS L3EVPN • SR-MPLS to VxLAN Handoff
Quality of Service	• Classification and Marking • Queuing and Scheduling • CoPP, Custom CoPP • Interface QoS support for QoS classification policies • 1R2C
Network Security	• AAA, RADIUS, TACACS+ • Ingress PACL • Ingress and egress RACL (IPV4/V6)

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Feature Type	Description
	• SSH Protocol Version 2 • SNMPv3 • PBR
Telemetry and Monitoring	• SNMPv2 • Software Telemetry ◦ DME data collection ◦ NX-API data sources ◦ Google protocol buffer (GPB) encoding over Google Remote Procedure Call (gRPC) transport ◦ JSON encoding over HTTP • sFlow • Ingress Netflow • gNMI support • SPAN, SPAN on Drop, ERSPAN
VXLAN	• VXLAN EVPN v4/v6 • Multicast/ IR • TRMv4 • DSVNI • Multisite with Anycast border gateway • Multisite with vPC border gateway • vPC and vPC Fabric Peering • NGOAM • L3 physical port and L3PO as fabric uplinks • IGMP snooping with or without TRMv4 • ND Suppression
Programmability	• Open NX-OS automation • Open and Native YANG Models ◦ NETCONF, RESTCONF, gNMI • Python API • Tcl • Cisco NX-API
Upgrade	• POAP • GIR • Disruptive ISSU
Licensing	• Premier, Advantage and Essentials License for appropriate features

• Breakout Support: Breakout is not supported on this switch.
• Auto-negotiation is not supported on this switch.
• 1G 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

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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

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