Cisco Nexus 9396Y(/T)-SE1 Switches

READ ME FIRST

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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

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. The Cisco Nexus 9396T12C-SE1 Switch is a 2RU switch that supports 4.2 Tbps of bandwidth and over 2.6Bpps. The 96 10GBASE-T downlink ports on the 9396T12C-SE1 can be configured to work as 100-Mbps, 1-Gbps, or 10-Gbps ports. The 12 uplinks ports can be configured as 40- and 100-Gbps ports, offering flexible migration options. The Cisco Nexus 9396Y12C-SE1 Switch is a 2-Rack-Unit (2RU) switch that supports 9.6 Tbps of bandwidth and 2.6 Bpps across 48 fixed 10/25G SFP+ ports, 48 fixed 10/25G/50G SFP56 ports and 12 fixed 40/100G QSFP28 ports. The 96 ports of downlinks support 1/10/25-Gbps. The 12 uplinks 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 N9396Y12C-SE1 and N9396T12C-SE1 switches support these software features:

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Feature Type	Description
Network Interfaces and Speeds	• 100G, 50G, 40G, 25G, 10G, 1G* • Breakouts: 4x 25G, 2x 50G • L3 Routed, Routed sub (native & PC) • SVI support • VLAN, Access, Trunk
L2	• DHCP relay • QinQ • SVI support • UDLD • Port Channels (PC), VPC • ELAM • ICAM • RSTP. MSTP • LACP, LLDP
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)
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)
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 • 1R2C
Network Security	• AAA, RADIUS, TACACS+ • Ingress PACL • Ingress and egress RACL (IPV4/V6) • SSH Protocol Version 2 • SNMPv3 • PBR • MACsec

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Feature Type	Description
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
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

*1G supported only on N9396Y12C-SE1 on downlink ports only

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.

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NX-OS Release	Description
10.6(3)F	ND Suppression Interface QoS support for QoS classification policies Symmetric Hashing IPv6 Multicast/MLD Snooping SVI Autostate Static mac and Learn Disable support QinQ Multi Tag support Port VLAN translation Proxy ARP

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.

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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