Cisco Nexus 9336C-SE1 Switches

READ ME FIRST

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Introduction

The Cisco Nexus™ 9336C-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.

Date	Description
August 15, 2025	This document became available.

Scope

This document summarizes the current software feature capabilities of the Cisco Nexus 9336C-SE1 switch.

Positioning

The Cisco Nexus 9336C-SE1 switches support 36 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 9336C-SE1 is a powerful, fixed-port 1RU 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 9336C-SE1 enables 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(3)F, the Cisco Nexus 9336C-SE1 switches support these software features:

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Feature Type	Description
Network Interfaces and Speeds	• 100G, 40G, 25G, 10G • Breakouts: 4x10G, 4x25G, 2x50G • L3 routed, routed sub (native and PC) • SVI support • VLAN, access, trunk
L2	• DHCP relay • QinQ • SVI support • UDLD • Port Channel (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 • gNMI support • SPAN, SPAN on drop, ERSPAN
VXLAN	• VXLAN EVPN v4/v6 • Multicast/IR • TRMv4 • DSVNI • Multi-Site with Anycast border gateway • Multi-Site with vPC BGWs • vPC and vPC fabric peering • NGOAM • L3 physical port and L3PO as fabric uplinks • IGMP snooping with or without TRMv4
IPFM	• PTP - IEEE-1588v2 (BC supported), Media Profiles • NBM Use cases • Policer Scale
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

Cisco Nexus Dashboard Support

Nexus Dashboard (ND) can provide management and automation for Cisco Nexus 9336C-SE1 in external fabrics in ND 4.1

Software Releases

Table 1. Software Releases

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NX-OS Release	Description
10.6(1)F	Release 10.6(1) was the first release to enable support for Cisco Nexus 9336C-SE1 switches.
10.6(2)F	Support for: SR-MPLS to VxLAN Handoff Multi-Site with vPC BGWs 1R2C Ingress Netflow
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

Documentation Feedback

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

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