

# Cisco Nexus 9332C and 9364C Fixed Spine Switches



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## Product overview

Based on Cisco® Cloud Scale technology, this platform supports cost-effective, ultra-high-density cloud-scale deployments, an increased number of endpoints, and cloud services with wire-rate security and telemetry. 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.

The product is designed to support innovative technologies such as Media Access Control Security (MACsec), Virtual Extensible LAN (VXLAN), tunnel endpoint VTEP-to-VTEP overlay encryption, CloudSec and Streaming Statistics Export (SSX)<sup>1</sup>. MACsec is a security technology that allows traffic encryption at the physical layer and provides secure server, border leaf, and leaf-to-spine connectivity. SSX is hardware-based, consisting of a module that reads statistics from the ASIC and sends them to a remote server for analysis. Through this application, users can better understand network performance without any impact on the switch control plane or CPU.

Cisco provides two modes of operation for Cisco Nexus® 9000 Series Switches. Organizations can use [Cisco NX-OS Software](#) to deploy the switches in standard Cisco Nexus switch environments (NX-OS mode). Organizations can also deploy the infrastructure that is ready to support the [Cisco Application Centric Infrastructure](#) (Cisco ACI™) platform to take full advantage of an automated, policy-based, systems-management approach (Cisco ACI mode).

## Switch models

The Cisco Nexus 9364C Spine Switch is a 2-Rack-Unit (2RU) spine switch that supports 12.84 Tbps of bandwidth and 4.3 bpps across 64 fixed 40/100G QSFP28 ports and 2 fixed 1/10G SFP+ ports (Figure 1). Breakout cables are not supported. The last 16 ports marked in green are capable of wire-rate MACsec encryption.<sup>1</sup> The switch can operate in Cisco ACI Spine or NX-OS mode.



**Figure 1.**  
Cisco Nexus 9364C Switch

The Cisco Nexus 9332C is a compact form-factor 1-Rack-Unit (1RU) spine switch that supports 6.4 Tbps of bandwidth and 4.4bpps across 32 fixed 40/100G QSFP28 ports and 2 fixed 1/10G SFP+ ports (Figure 2). Breakout cables are not supported. The last 8 ports marked in green are capable of wire-rate MACsec encryption.<sup>2</sup> The switch can operate in Cisco ACI Spine or NX-OS mode.

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<sup>1</sup> See the latest release notes for additional information [here](#).

<sup>2</sup> See the latest release notes for additional information [here](#).