Data sheet
Cisco public

Cisco N9364E-SG2 Switches

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Cisco N9364E-SG2 switches are 64-port 800G fixed switches.

Product overview

Artificial-Intelligence and Machine-Learning (AI/ML) applications are being used increasingly in today's data centers, and Cisco N9000 Series Switches have the hardware and software capabilities to provide the right latency, congestion-management mechanisms, and telemetry to meet the requirements of those applications. Cisco N9000 Series Switches address the need for high-performance, power-efficient, compact switching in network infrastructures and are designed to support high-density 800G fabrics for next-generation leaf and spine designs.

Large-cloud and data-center networking teams require a flexible, reliable solution that efficiently manages, troubleshoots, and analyzes their IT infrastructure. In addition, they need security, automation, visibility, analytics, and assurance. Coupled with tools such as Cisco Nexus Dashboard Insights for visibility and Cisco Nexus Dashboard Fabric Controller for automation, Cisco N9000 Series Switches are ideal platforms to build a high-performance AI/ML network fabric.

Cisco N9364E-SG2 switches introduce high-density 800G aggregation for the data center fabric. They also offer various lower port speeds and densities, including 400, 200, and 100 Gbps. The Cisco N9364E-SG2 switch is based on Cisco® Silicon One® technology, equipped to support next-generation cloud architecture.

The Cisco N9364E-SG2 are 2-Rack-Unit (2RU) 64-port 800 Gigabit Ethernet switches available in both QSFP-DD and OSFP form factors. They support 102.4 Tbps of switch bandwidth and provide 256MB of on-die packet buffer.

Features and benefits

Table 1. Features and benefits

Feature	Benefit
Architectural flexibility	• Cisco N9000 Series Switches support Cisco NX-OS VXLAN EVPN, and IP routed on Ethernet switched Layer-2 fabrics, using a comprehensive set of IPv6/IPv4 and Ethernet protocols. • Purpose-built Cisco NX-OS Software operating system with comprehensive, proven innovations. The operating system is modular, with a dedicated process for each routing protocol - a design that isolates faults while increasing availability. • Support for standards-based VXLAN EVPN fabrics, inclusive of hierarchical multisite support (Refer to VXLAN network with MP-BGP EVPN control plane for more information.) • Three-tier BGP architectures, enabling horizontal, nonblocking IPv6 network fabrics at web scale. • Comprehensive protocol support for Layer-3 (v4 and v6) routing protocol suites.

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Feature	Benefit
Extensive programmability	• Day-0 automation through Power On Auto Provisioning (POAP), drastically reducing provision time • Industry-leading integrations for leading DevOps configuration management applications, such as Ansible. Extensive Native YANG, and industry-standard OpenConfig model support through RESTCONF/NETCONF/gNMI • REST API interacting with Data Management Engine (DME) • Model-driven telemetry, which enhances network observability • Third-party application-hosting using Cisco Application Framework (CAF)
High scalability, flexibility, and security	• Flexible forwarding tables that support up to 512,000 shared entries • Flexible shared ingress and egress of a maximum of 1536 ingress ACL/1024 egress ACL entries
AI/ML networking	Cisco N9000 Series Switches support innovative congestion management and flow-control algorithms along with the right latency and telemetry to meet the design requirements of AI/ML fabrics. • Dynamic Load Balancing (DLB) distributes traffic across multiple paths or links that have the same cost in terms of routing metrics. • Priority Flow Control (PFC) is a key capability supported on Cisco N9000 Series Switches that prevents Ethernet frame drops by signaling, controlling, and managing Ethernet flows along a path by sending pause frames to appropriate senders. • The platform also supports Explicit Congestion Notification (ECN), which provides end-to-end notification per IP flow by marking packets that experienced congestion, without dropping traffic. The platform is capable of tracking ECN statistics, including the number of marked packets that have experienced congestion. • The platform offers lossless transport for Remote Direct Memory Access (RDMA) over Converged Ethernet (RoCE) with support of Data-Center-Bridging (DCB) protocols: ◦ Enhanced Transmission Selection (ETS) reserves bandwidth per priority class in network contention situations. ◦ Data Center Bridging Exchange Protocol (DCBX) can discover and exchange priority and bandwidth information with endpoints. • Weighted Random Early Detection (WRED) is a congestion-avoidance technique that allows Cisco N9000 Series Switches to detect and react to congestion in the network by marking flows that could cause congestion. • The platform offers Cisco's innovative intelligent buffer management, which offers the capability to distinguish between mice and elephant flows and apply different queue-management schemes to them based on their network-forwarding requirements in the event of link congestion.

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Feature	Benefit
Hardware and software high availability	• Virtual Port-Channel (vPC) Fabric Peering, a NX-OS feature for VXLAN EVPN fabrics, provides an enhanced dual-homing access solution without the overhead of physical ports for vPC Peer Link. • The 128-way Equal-Cost Multipath (ECMP) routing enables the use of Layer-3 fat-tree designs. This feature helps organizations prevent network bottlenecks, increase resiliency, and add capacity with little network disruption. • Software-Maintenance Upgrades (SMUs) contain fixes for specific defects. They provide a quick resolution of critical issues. • The switches use hot-swappable Power-Supply Units (PSUs) and fans with N+1 redundancy.
Cisco Nexus Dashboard	Cisco Nexus Dashboard is a platform that transforms data-center and cloud-network operations through simplicity, automation, and analytics. Cisco Nexus Dashboard Fabric Controller (NDFC), Cisco Nexus Dashboard Insights (NDI), and Cisco Nexus Dashboard Orchestrator (NDO) are integrated as services into Cisco Nexus Dashboard. • Cisco Nexus Dashboard is included with all Cisco N9000 switch tiered licenses. Cisco Nexus Dashboard Fabric Controller requires a Cisco Data Center Networking (DCN) Essentials license, Cisco Nexus Dashboard Orchestrator requires a Cisco DCN Advantage license, and Cisco Nexus Dashboard Insights requires a Cisco DCN Premier or a Cisco DCN Day-2 Ops add-on license.

Licensing

The default system software has a comprehensive Layer-2 security and management feature set. The Cisco N9364E-SG2 switch uses the XF3 class Cisco Data Center Network (Cisco DCN) Premier, Advantage, and Essentials subscription licenses. The licensing guide illustrates the software packaging and licensing available to enable advanced features. For the latest software release information and recommendations, refer to the release notes.

Product specifications

Table 2. Cisco N9364E-SG2 Switches Specifications

Item	Cisco N9364E-SG2 switch
Technical	• 64-port 800G QSFP-DD ports (N9364E-SG2-Q) • 64-port 800G OSFP ports (N9364E-SG2-O) • Supports 2x400, and 8x100 breakout • On-die buffer: 256MB fully shared • System memory: 32GB, upgradeable to 64GB • SSD: 240 GB • USB: 1 port • RS-232 serial console ports: 1 • Management ports: 1

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Item	Cisco N9364E-SG2 switch
	• CPU (N9364E-SG2-Q) ◦ Intel® Broadwell 4-core 2.4 GHz CPU • CPU (N9364E-SG2-O) ◦ Intel Broadwell 8-core 2 GHz CPU
Power and cooling	• Power: 3000W HVAC/HVDC • Hot-swappable, 2 power supplies, 1+1 redundancy • Hot-swappable, 4 fans, 3+1 redundancy • Typical power: 995 W • Maximum power: 2270 W
Physical and environmental	• Dimensions (H x W x D): 3.43 x 17.3 x 24.7 in. (8.76 x 44.0 x 62.7 cm) • Acoustics: ◦ at 50% fan speed: 78.3 dBA ◦ at 70% fan speed: 86.9 dBA ◦ at 90% fan speed: 92.6 dBA ◦ at 100% fan speed: 93 dBA • Operating temperature: 32 to 104F (0 to 40C) • Nonoperating (storage temperature): -40 to 158F (-40 to 70C) • Humidity: 5 to 95% (non-condensing) • Altitude: 0 to 9,842 ft (0 to 3000m) • Mean time between failure (MTBF): 129,110 hours

Table 3. Cisco N9364E-SG2 switches power-supply specifications

Model	Cisco HVAC/HVDC
Output power	3000 W
Input voltage	90-140 VAC 180-305 VAC 190-400 DC
Input frequency	47-63 Hz
Connector	APP SAF-D-GRID Ultra Short 2006
Efficiency	80PLUS Platinum

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Table 4. Cisco N9364E-SG2 weight

Part number	Weight
N9364E-SGE2-Q/O without power supplies or fans	37.0 lbs (16.8 kg)
N9364E-SGE2-Q/O with power supplies and fans	45.5 lbs (20.6 kg)
PSU3KW-HVPI	1.75 lbs (0.79 kg)
FAN-PI-V4	1.25 lbs (0.57 kg)

Supported optics modules

For details on the optical modules available and the minimum software release required for each supported optical module, visit here.

Ordering information

Table 5. Ordering information

Part #	Product Description
N9364E-SG2-Q	Cisco N9300 64p 800G switch w/ QSFP-DD
N9364E-SG2-Q=	Cisco N9300 64p 800G switch w/ QSFP-DD w/o power supply, fans
N9364E-SG2-O	Cisco N9300 64p 800G switch w/ OSFP
N9364E-SG2-O=	Cisco N9300 64p 800G switch w/ OSFP w/o power supply, fans
PSU3KW-HVPI	Cisco 3000W HV power module with port-side intake
PSU3KW-HVPI=	Cisco 3000W HV power module with port-side intake, spare
FAN-PI-V4	Cisco fan tray, port-side intake airflow
FAN-PI-V4=	Cisco fan tray, port-side intake airflow, spare
8K-2RU-KIT-S	Cisco 2RU fixed system installation kit short
8K-2RU-KIT-S=	Cisco 2RU fixed system installation kit short, spare
8K-2RU-KIT-L	Cisco 2RU fixed system installation kit long
8K-2RU-KIT-L=	Cisco 2RU fixed system installation kit long, spare
8K-2RU-2P-KIT	Cisco installation kit 2 posts
8K-2RU-2P-KIT=	Cisco installation kit 2 posts, spare

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Warranty information

The Cisco N9364E-SG2 switch has a 1-year limited hardware warranty. The warranty includes hardware replacement with a 10-day turnaround from receipt of a Return Materials Authorization (RMA).

Product sustainability

Information about Cisco's environmental, social and governance (ESG) initiatives and performance is provided in Cisco's CSR and sustainability reporting.

Table 6. Cisco environmental sustainability information

Sustainability topic		Reference
General	Information on product-material-content laws and regulations	Materials
	Information on electronic waste laws and regulations, including our products, batteries, and packaging	WEEE Compliance
	Information on product takeback and reuse program	Cisco Takeback and Reuse Program
	Sustainability inquiries	Contact: csr_inquiries@cisco.com
	Countries and regions supported	Table 6: Regulatory compliance
Power	Power	Table 3: Power-supply specifications
Material	Product packaging weight and materials	Contact: environment@cisco.com
	Weight	Table 4. Weight

Cisco and partner services

Cisco offers a wide range of services to help accelerate your success in deploying and optimizing the Cisco N9300 switch in your data center. The innovative Cisco Services offerings are delivered through a unique combination of people, processes, tools, and partners and are focused on helping you increase operation efficiency and improve your data-center network. Cisco Advanced Services uses an architecture-led approach to help you align your data-center infrastructure with your business goals and achieve long-term value. The Cisco SMARTnet® service helps you resolve mission-critical problems with direct access at any time to Cisco network experts and award-winning resources.

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Cisco Capital

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