Cisco N9300-FX Series Switches

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Product overview

The Cisco N9300-FX Series switches belongs to the fixed Cisco N9000 platform based on Cisco Cloud Scale technology. The platform support cost-effective 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.

Cisco N9300-FX series switches offer a variety of interface options to transparently migrate existing data centers from 100-Mbps, 1-Gbps, and 10-Gbps speeds to 25- Gbps at the server, and from 10- and 40-Gbps speeds to 50- and 100- Gbps at the aggregation layer. The platforms provide investment protection for customers, delivering large buffers, highly flexible Layer 2 and Layer 3 scalability, and performance to meet the changing needs of virtualized data centers and automated cloud environments.

Cisco provides two modes of operation for Cisco N9000 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 (ACI mode).

Switch models

Table 1. Cisco N9300-FX Series Switches

Model	Description
Cisco N93180YC-FX	48 x 1/10/25-Gbps fiber ports and 6 x 40/100-Gbps QSFP28 ports
Cisco N93108TC-FX	48 x 100M/1/10GBASE-T ports and 6 x 40/100-Gbps QSFP28 ports
Cisco N9348GC-FXP	48 x 100M/1G BASE-T ports, 4 x 1/10/25-Gbps SFP28 ports and 2 x 40/100-Gbps QSFP28 ports

The Cisco N93180YC-FX Switch (Figure 1) is a 1RU switch with latency of less than 1 microsecond that supports 3.6 Tbps of bandwidth and 1.2 bpps. The 48 downlink ports on the 93180YC-FX are capable of supporting 1-, 10-, or 25-Gbps Ethernet or as 16-, 32-Gbps Fibre Channel ports[1], creating a point of convergence for primary storage, compute servers, and back-end storage resources at the top of rack.

The uplink can support up to six 40- and 100-Gbps ports, or a combination of 1-, 10-, 25-, 40, 50-, and 100-Gbps connectivity, offering flexible migration options.

The switch has IEEE compliant, FC-FEC and RS-FEC enabled for 25-Gbps support. All ports support wire-rate MACsec encryption[2]. Please see the Licensing guide section to enable features on the platform.

[1] Capabilities to enable FC needs feature license, please see latest software release notes for details.

[2] Capabilities to enable MACsec needs feature license, please see the Cisco N9000 Licensing Guide

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Figure 1.
Cisco N93180YC-FX Switch

The Cisco N93108TC-FX Switch (Figure 5) is a 1RU switch that supports 2.16 Tbps of bandwidth and over 1.25bpps. The 48 10GBASE-T downlink ports on the 93108TC-FX can be configured to work as 100-Mbps, 1-Gbps, or 10-Gbps ports. The uplink can support up to six 40- and 100-Gbps ports, or a combination of 1-, 10-, 25-, 40, 50-, and 100-Gbps connectivity, offering flexible migration options.



Figure 2.
Cisco N93108TC-FX Switch

The Cisco N9348GC-FXP Switch (Figure 3) is a 1RU switch that supports 696 Gbps of bandwidth and over 517 mpps. The 48 1GBASE-T downlink ports on the 9348GC-FXP can be configured to work as 100-Mbps, 1-Gbps ports. The 4 ports of SFP28 can be configured as 1/10/25-Gbps and the 2 ports of QSFP28 can be configured as 40- and 100-Gbps ports, or a combination of 1-, 10-, 25-, 40, 50-, and 100-Gbps connectivity, offering flexible migration options.

The Cisco N9348GC-FXP is ideal for big data customers that require a Gigabit Ethernet ToR switch with local switching.



Figure 3.
Cisco N9348GC-FXP Switch

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Features and benefits

The Cisco N9300-FX series provide the following features and benefits:

- **Architectural Flexibility**
  - Industry leading Software Defined Networking Solution Cisco ACI™ support.
  - Support for standards based VXLAN EVPN fabrics, inclusive of hierarchical multi-site support (refer to VXLAN Network with MP-BGP EVPN Control Plane for more information).
  - Three-tier BGP architectures, enabling horizontal, non-blocking IPv6 network fabrics at web-scale.
  - Segment routing allows the network to forward Multiprotocol Label Switching (MPLS) packets and engineer traffic without Resource Reservation Protocol (RSVP) Traffic Engineering (TE). It provides a control-plane alternative for increased network scalability and virtualization.
  - Comprehensive protocol support for Layer 3 (v4/v6) unicast and multicast routing protocol suites, including BGP, Open Shortest Path First (OSPF), Enhanced Interior Gateway Routing Protocol (EIGRP), Routing Information Protocol Version 2 (RIPv2), Protocol Independent Multicast Sparse Mode (PIM-SM), Source-Specific Multicast (SSM), and Multicast Source Discovery Protocol (MSDP).
- **Extensive Programmability**
  - Day zero automation through Power On Auto Provisioning, drastically reducing provisioning time.
  - Industry leading integrations for leading devops configuration management applications – Ansible, Chef, Puppet, SALT. Extensive Native YANG and industry standard OpenConfig model support through RESTCONF/NETCONF.
  - Pervasive API's for all switch CLI functions (JSON based RPC over HTTP/HTTPs).
- **High Scalability, Flexibility, and Security**
  - Flexible forwarding tables support up to 2 million shared entries on FX models. Flexible use of TCAM space allows for custom definition of Access Control List (ACL) templates.
  - IEEE 802.1ae MAC Security (MACsec) support on all ports of N9300-FX models with speed greater than or equal to 10-Gbps, allows traffic encryption at the physical layer and provides secure server, border leaf, and leaf-to-spine connectivity.

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- **Intelligent Buffer Management**
  - The platform offers Cisco's innovative intelligent buffer management, that offers capability to distinguish mice and elephant flows and apply different queue management schemes to them based on their network forwarding requirements in the event of link congestion.
  - Intelligent buffer management functions are:
  - Approximate Fair Dropping (AFD) with Elephant trap (ETRAP). AFD distinguishes long-lived elephant flows from short-lived mice flows, by using ETRAP. AFD exempts mice flows from the dropping algorithm so that mice flows will get their fair share of bandwidth without being starved by bandwidth-hungry elephant flows. Also, AFD tracks elephant flows and subjects them to the AFD algorithm in the egress queue to grant them their fair share of bandwidth.
  - ETRAP measures the byte counts of incoming flows and compares this against the user defined ETRAP threshold. After a flow crosses the threshold, it becomes an elephant flow.
  - Dynamic Packet Prioritization (DPP) provides the capability of separating mice flows and elephant flows into two different queues so that buffer space can be allocated to them independently. Mice flows, sensitive to congestion and latency can take priority queue and avoid re-ordering that allows to elephant flows to take full link bandwidth.
- **RDME over Converged Ethernet – RoCE Support**
  - Platform offers lossless transport for RDMA over Converged Ethernet with support of DCB protocols:
  - Priority-based Flow Control – (PFC) to prevent drops in the network and pause frame propagation per priority class.
  - Enhanced Transmission Selection – (ETS) to reserve bandwidth per priority class in network contention situation.
  - Data Center Bridging Exchange Protocol – (DCBX) to discover and exchange priority and bandwidth information with end points.
  - Platform also supports Explicit Congestion Notification – (ECN) that provides end-to-end notification per IP flow by marking packets that experienced congestion, without dropping traffic. The platform is capable to track ECN statistics of number of marked packet that have experienced congestion.
- **LAN and SAN Convergence**
  - Fibre Channel[3] and Fibre Channel over Ethernet (FCoE) N-Port Virtualization (NPV) support enables the network administrator to control domain IDs and points of management on a Fibre Channel network as it scales. This feature enables LAN and SAN converged networks on a lossless, reliable Ethernet network.

[3] Capabilities to enable FC needs feature license, please see latest software release notes for details.

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- **Hardware and Software High Availability**
  - Virtual Port-Channel (vPC) technology provides Layer 2 multipathing through the elimination of Spanning Tree Protocol. It also enables fully utilized bisectional bandwidth and simplified Layer 2 logical topologies without the need to change the existing management and deployment models.
  - The 64-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.
  - Advanced reboot capabilities include hot and cold patching.
  - The switches use hot-swappable Power-Supply Units (PSUs) and fans with N+1 redundancy.
- **Purpose-Built Cisco NX-OS Software Operating System with Comprehensive, Proven Innovations**
  - Single binary image that supports every switch in the Cisco N9000 series, simplifying image management. The operating system is modular, with a dedicated process for each routing protocol: a design that isolates faults while increasing availability. In the event of a process failure, the process can be restarted without loss of state. The operating system supports hot and cold patching and online diagnostics.
  - Data Center Network Manager (DCNM) is the network management platform for all NX-OS-enabled deployments, spanning new fabric architectures, IP Fabric for Media, and storage networking deployments for the Cisco Nexus®-powered data center. Accelerate provisioning from days to minutes, and simplify deployments from day zero through day N. Reduce troubleshooting cycles with graphical operational visibility for topology, network fabric, and infrastructure. Eliminate configuration errors and automate ongoing change in a closed loop, with templated deployment models and configuration compliance alerting with automatic remediation. Real-time health summary for fabric, devices, and topology. Correlated visibility for fabric (underlay, overlay, virtual and physical endpoints), including compute visualization with VMware.
  - Network traffic monitoring with Cisco Nexus Data Broker builds simple, scalable, and cost-effective network Test Access Points (TAPs) and Cisco Switched Port Analyzer (SPAN) aggregation for network traffic monitoring and analysis.
- **Cisco Network Assurance Engine (NAE)**
  - Cisco NAE continuously verifies if the network infrastructure is operating as per policy intent and it leverages the power of mathematical models to reason on behalf of the operator in policy, configuration and dynamic state level. NAE can precisely indicate problems in the network, identify which application or part of network is impacted, root-cause the problem and suggest how to fix it. Its continuous verification approach transforms Day 2 Operations from reactive to proactive mode and it does so without using any packet data. NAE helps avoid outages by predicting the impact of changes, reducing network related IT incidents and shrinking the mean time to repair by up to 66%. NAE also helps assure network security and segmentation compliance. To learn more about NAE, visit https://www.cisco.com/c/en/us/products/data-center-analytics/network-assurance-engine/index.html.

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Product specifications

The Cisco N9300-FX series offer industry-leading density and performance with flexible port configurations that can support existing copper and fiber cabling (Tables 2).

Table 2. Cisco N9300-FX Series Switch specifications

Feature	Cisco N93180YC-FX	Cisco N93108TC-FX	Cisco N9348GC-FXP
Ports	48 x 1/10/25-Gbps and 6 x 40/100-Gbps QSFP28 ports	48 x 100M/1/10GBASE-T and 6 x 40/100-Gbps QSFP28 ports	48 x 1-GBASE-T ports, 4 x 1/10/25-Gbps SFP28 ports and 2 x 40/100 QSFP28 ports
Downlink supported speeds	1/10/25-Gbps Ethernet 16/32-Gbps Fibre Channel	100-Mbps and 1/10-Gbps speeds	100-Mbps and 1-Gbps speeds
CPU	6 cores	4 cores	4 cores
System memory	Up to 32 GB	24 GB	24 GB
SSD drive	128 GB	128 GB	128 GB
System buffer	40 MB	40 MB	40 MB
Management ports	1 RJ-45 port L1 and L2 ports are unused	2 ports: 1 RJ-45 and 1 SFP+	2 ports: 1 RJ-45 and 1 SFP+
USB ports	1	1	1
RS-232 serial ports	1	1	1
Power supplies (up to 2)	500W AC, 930W DC, or 1200W HVAC/HVDC	500W AC, 930W DC, or 1200W HVAC/HVDC	350W AC, 440W DC
Typical power (AC/DC)*	260W	276W	178W
Maximum power (AC/DC)*	425W	460W	287W
Input voltage (AC)	100 to 240V	100 to 240V	100 to 240V
Input voltage (High-Voltage AC [HVAC])	200 to 277V	200 to 277V	90 to 305V
Input voltage (DC)	-48 to -60V	-48 to -60V	-36V to -72V
Input voltage (High-Voltage DC [HVDC])	-240 to -380V	-240 to -380V	192 to 400V
Frequency (AC)	50 to 60 Hz	50 to 60 Hz	50 to 60 Hz
Fans	4	4	3
Airflow	Port-side intake and exhaust	Port-side intake and exhaust	Port-side intake and exhaust

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Feature	Cisco N93180YC-FX	Cisco N93108TC-FX	Cisco N9348GC-FXP
Physical dimensions (H x W x D)	1.72 x 17.3 x 22.5 in. (4.4 x 43.9 x 57.1 cm)	1.72 x 17.3 x 22.5 in. (4.4 x 43.9 x 57.1 cm)	1.72 x 17.3 x 19.7 in. (4.4 x 43.9 x 49.9 cm)
Acoustics	57 dBA at 40% fan speed, 68.9 dBA at 70% fan speed, and 77.4 dBA at 100% fan speed	64.2 dBA at 40% fan speed, 68.9 dBA at 70% fan speed, and 77.8 dBA at 100% fan speed	67.5 dBA at 50% fan speed, 73.2 dBA at 70% fan speed, and 81.6 dBA at 100% fan speed
RoHS compliance	Yes	Yes	Yes
MTBF	238,470 hours	319,790 hours	257,860 hours
Minimum ACI image	ACI-N9KDK9-12.2A	ACI-N9KDK9-12.2A	ACI-N9KDK9-13.0
Minimum NX-OS image	NXOS-703I7.1	NXOS-703I7.1	NXOS-703I7.1

* Typical and maximum power values are based on input drawn from the power circuit. The power supply value (for example, 500W AC power supply: NXA-PAC-500W-PI) is based on the output rating to the inside of the switch

Table 3 lists the performance and scalability specifications for the Cisco N9300-FX series switches. (Check the software release notes for feature support information.)

Table 3. Hardware performance and scalability specifications*

Item	Cisco N9300-FX Series Switches
Maximum number of IPv4 Longest Prefix Match (LPM) routes**	1,792,000
Maximum number of IPv4 host entries**	1,792,000
Maximum number of IPv6 Longest Prefix Match (LPM) routes**	896,000
Maximum number of IPv6 host entries**	1,792,000
Maximum number of MAC address entries**	512,000
Maximum number of multicast routes	128,000
Number of Internet Group Management Protocol (IGMP) snooping groups	Shipping: 8,000 Maximum: 32,000
Maximum number of Cisco N2000 Series Fabric Extenders per switch	16
Maximum number of Access Control List (ACL) entries	Single-slice forwarding engine: 5000 ingress 2000 egress
Maximum number of VLANs	4096**

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Item	Cisco N9300-FX Series Switches
Number of Virtual Routing and Forwarding (VRF) instances	Shipping: 1,000 Maximum: 16,000
Maximum number of ECMP paths	64
Maximum number of port channels	512
Maximum number of links in a port channel	32
Number of active SPAN sessions	4
Maximum number of VLAN's in Rapid per-VLAN Spanning Tree (RPVST) instances	3,967
Maximum number of Hot-Standby Router Protocol (HSRP) groups	490
Number of Network Address Translation (NAT) entries	1,023
Maximum number of Multiple Spanning Tree (MST) instances	64
Number of Queues	8

* More templates and greater scalability are on the roadmap. Refer to the Cisco N9000 Series Verified Scalability Guide documentation for the latest exact scalability values validated for specific software

** 127 VLANs out of 4096 are reserved

Table 4 lists the environmental properties, and Table 5 lists the weight for the Cisco N9300-FX series switches.

Table 4. Environmental properties

Property	Description
Operating temperature	32 to 104°F (0 to 40°C)
Nonoperating (storage) temperature	-40 to 158°F (-40 to 70°C)
Humidity	5 to 95% (noncondensing)
Altitude	0 to 13,123 ft (0 to 4000m)

Table 5. Weight

Component	Weight
Cisco N93180YC-FX without power supplies or fans	17.4 lb (7.9 kg)
Cisco N93108TC-FX without power supplies or fans	17.4 lb (7.9 kg)
Cisco N9348GC-FXP without power supplies or fans	14.2 lb (6.44 kg)
350W AC power supply	2.8 lb (1.27 kg)

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Component	Weight
440W DC power supply	2.6 lb (1.27 kg)
500W AC power supply	2.42 lb (1.1 kg)
930W DC power supply	2.42 lb (1.1 kg)
1200W HVDC/HVAC power supply	2.42 lb (1.1 kg)
Fan tray: NXA-FAN-30CFM-F or NXA-FAN-30CFM-B	0.26 lb (0.12 kg)

Table 6 summarizes regulatory standards compliance for the Cisco N9300-FX series switches.

Table 6. Regulatory Standards Compliance: Safety and EMC

Specification	Description
Regulatory compliance	Products should comply with CE Markings according to directives 2004/108/EC and 2006/95/EC
Safety	NEBS • UL 60950-1 Second Edition • CAN/CSA-C22.2 No. 60950-1 Second Edition • EN 60950-1 Second Edition • IEC 60950-1 Second Edition • AS/NZS 60950-1 • GB4943
EMC: Emissions	• 47CFR Part 15 (CFR 47) Class A • AS/NZS CISPR22 Class A • CISPR22 Class A • EN55022 Class A • ICES003 Class A • VCCI Class A • EN61000-3-2 • EN61000-3-3 • KN22 Class A • CNS13438 Class A
EMC: Immunity	• EN55024 • CISPR24 • EN300386 • KN 61000-4 series
RoHS	The product is RoHS-6 compliant with exceptions for leaded-ball grid-array (BGA) balls and lead press-fit connectors.

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Software licensing and optics supported

The software packaging for the Cisco N9000 Series offers flexibility and a comprehensive feature set. The default system software has a comprehensive Layer 2 security and management feature set. To enable additional functions, including Layer 3 IP unicast and IP multicast routing and Cisco Nexus Data Broker, you must install additional licenses. To meet customer requirements, licensing is available as both subscription and perpetual. 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 product bulletin at https://www.cisco.com/go/n9000.

For details about the optics modules available and the minimum software release required for each supported module, visit https://www.cisco.com/en/US/products/hw/modules/ps5455/products_device_support_tables_list.html.

Ordering information

Table 7 presents ordering information for the Cisco N9300-FX series switches.

Table 7. Ordering information

Part Number	Product Description
Base Part Numbers	
N9K-C93180YC-FX	N9300 with 48p 1/10G/25G SFP and 6p 40G/100G QSFP28, MACsec, and Unified Ports capable
N9K-C93108TC-FX	N9300 with 48p 10G BASE-T and 6p 40G/100G QSFP28, MACsec capable
N9K-C9348GC-FXP	N9300 with 48p 100M/1G BASE-T, 4p 1/10/25G SFP28 and 2p 40G/100G QSFP28
Power Supplies on N9348GC-FXP	
NXA-PAC-350W-PI	N9000 350W AC PS, Port-side Intake
NXA-PAC-350W-PE	N9000 350W AC PS, Port-side Exhaust
NXA-PDC-440W-PI	N9000 440W DC PS, Port-side Intake
NXA-PDC-440W-PE	N9000 440W DC PS, Port-side Exhaust
Power Supplies on N93180YC-FX and 93108TC-FX	
NXA-PAC-500W-PI	N9000 500W AC PS, Port-side Intake
NXA-PAC-500W-PE	N9000 500W AC PS, Port-side Exhaust
NXA-PDC-930W-PI	N9000 930W DC PS, Port-side Intake
NXA-PDC-930W-PE	N9000 930W DC PS, Port-side Exhaust
N9K-PUV-1200W	N9300 1200W Universal Power Supply, Bi-directional air flow and Supports HVAC/HVDC

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Part Number	Product Description
Fans on N9300-FX Series	
NXA-FAN-30CFM-F	Nexus Single Fan, 30CFM, port side exhaust airflow
NXA-FAN-30CFM-B	Nexus Single Fan, 30CFM, port side intake airflow
Licenses on N9348GC-FXP	
C1E1TN9300GF-3Y	ACI & NX-OS Subscription Essential package for 1G Nexus 9K Leaf, 3 Year Term
C1E1TN9300GF-5Y	ACI & NX-OS Subscription Essential package for 1G Nexus 9K Leaf, 5 Year Term
C1A1TN9300GF-3Y	ACI & NX-OS Subscription Advantage package for 1G Nexus 9K Leaf, 3 Year Term
C1A1TN9300GF-5Y	ACI & NX-OS Subscription Advantage package for 1G Nexus 9K Leaf, 5 Year Term
ACI-ES-GF	ACI Essential SW license for a 1G Nexus 9K Leaf
ACI-AD-GF	ACI Advantage SW license for a 1G Nexus 9K Leaf
NXOS-ES-GF	NX-OS Essential SW license for a 1G Nexus 9K Leaf
NXOS-AD-GF	NX-OS Advantage SW license for a 1G Nexus 9K Leaf
Licenses on N93180YC-FX and N9K-C93108TC-FX	
C1E1TN9300XF-3Y	ACI & NX-OS Subscription Essential package for 10/25/40G+ Nexus 9K Leaf, 3 Year Term
C1E1TN9300XF-5Y	ACI & NX-OS Subscription Essential package for 10/25/40G+ Nexus 9K Leaf, 5 Year Term
C1A1TN9300XF-3Y	ACI & NX-OS Subscription Advantage package for 10/25/40G+ Nexus 9K Leaf, 3 Year Term
C1A1TN9300XF-5Y	ACI & NX-OS Subscription Advantage package for 10/25/40G+ Nexus 9K Leaf, 5 Year Term
ACI-ES-XF	ACI Essential SW license for a 10/25/40G+ Nexus 9K Leaf
ACI-AD-XF	ACI Advantage SW license for a 10/25/40G+ Nexus 9K Leaf
NX-OS-ES-XF	NX-OS Essential SW license for a 10/25/40G+ Nexus 9K Leaf
NX-OS-AD-XF	NX-OS Advantage SW license for a 10/25/40G+ Nexus 9K Leaf
Power Cords	
CAB-250V-10A-AR	AC Power Cord - 250V, 10A - Argentina (2.5 meter)
CAB-250V-10A-BR	AC Power Cord - 250V, 10A - Brazil (2.1 meter)
CAB-250V-10A-CN	AC Power Cord - 250V, 10A - PRC (2.5 meter)
CAB-250V-10A-ID	AC Power Cord - 250V, 10A, South Africa (2.5 meter)
CAB-250V-10A-IS	AC Power Cord - 250V, 10A - Israel (2.5 meter)

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Part Number	Product Description
CAB-9K10A-AU	Power Cord, 250VAC 10A 3112 Plug, Australia (2.5 meter)
CAB-9K10A-EU	Power Cord, 250VAC 10A CEE 7/7 Plug, EU (2.5 meter)
CAB-9K10A-IT	Power Cord, 250VAC 10A CEI 23-16/VII Plug, Italy (2.5 meter)
CAB-9K10A-SW	Power Cord, 250VAC 10A MP232 Plug, SWITZ (2.5 meter)
CAB-9K10A-UK	Power Cord, 250VAC 10A BS1363 Plug (13 A fuse), UK (2.5 meter)
CAB-9K12A-NA	Power Cord, 125VAC 13A NEMA 5-15 Plug, North America (2.5 meter)
CAB-AC-L620-C13	North America, NEMA L6-20-C13 (2.0 meter)
CAB-C13-C14-2M	Power Cord Jumper, C13-C14 Connectors, 2 Meter Length (2 meter)
CAB-C13-CBN	Cabinet Jumper Power Cord, 250 VAC 10A, C14-C13 Connectors (0.7 meter)
CAB-IND-10A	10A Power cable for India (2.5 meter)
CAB-N5K6A-NA	Power Cord, 200/240V 6A North America (2.5 meter)
CAB-HVAC-SD-0.6M	HVAC Power cable for Anderson-LS-25
CAB-HVAC-RT-0.6M	HVAC Power cable with right angle connector for RF-LS-25
Accessories on N9300-FX Series	
NXK-ACC-KIT-1RU	Nexus Fixed Accessory Kit with 4-post rack mount kit
NXK-ACC-KIT-2P	Nexus Fixed Accessory Kit with 2-post rack mount kit; supported on 9348GC-FXP only

Warranty, service and support

The Cisco N9300-FX series 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).

Cisco offers a range of professional, solution, and product support services for each stage of your Cisco N9300-FX series deployment:

- Cisco Data Center Quick Start Service for Cisco N9000 Series Switches: This offering provides consulting services that include technical advice and assistance to help deploy Cisco N9000 Series Switches.
- Cisco Data Center Accelerated Deployment Service for Cisco N9000 Series Switches: This service delivers planning, design, and implementation expertise to bring your project into production. The service also provides recommended next steps, an architectural high-level design, and operation-readiness guidelines to scale the implementation to your environment.
- Cisco Migration Service for Cisco N9000 Series Switches: This service helps you migrate from Cisco Catalyst® 6000 Series Switches to Cisco N9000 Series Switches.

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- Cisco Product Support: Support service is available globally 24 hours a day, 7 days a week, for Cisco software and hardware products and technologies associated with Cisco N9000 Series Switches. Enhanced support options delivered by Cisco also include solution support for Cisco ACI, Cisco SMARTnet™ Service, and Cisco Smart Net Total Care™* service.
- For more information, visit https://www.cisco.com/go/services.

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Cisco environmental sustainability

Information about Cisco's environmental sustainability policies and initiatives for our products, solutions, operations, and extended operations or supply chain is provided in the "Environment Sustainability" section of Cisco's Corporate Social Responsibility (CSR) Report.

Reference links to **information about key environmental sustainability topics** (mentioned in the "Environment Sustainability" section of the CSR Report) are provided in the following table:

Sustainability topic	Reference
Information on product material content laws and regulations	Materials
Information on electronic waste laws and regulations, including products, batteries, and packaging	WEEE compliance

Reference links to **product-specific environmental sustainability information** that is mentioned in relevant sections of this data sheet are provided in the following table:

Sustainability Topic	Reference
General	
Product Compliance	Table 6. Safety and Compliance Information
Power	
Power Supply	Table 2. Product specifications: Power Supplies, Typical and Max power specification
Material	
Unit Weight	Table 5. Weight
Dimensions and Mean Time between Failures Metrics	Table 2. Product specifications

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For more information

For more information about the Cisco N9000 Series and latest software release information and recommendations, visit https://www.cisco.com/go/n9000.

Document history

New or revised topic	Described in	Date
Product name change	Throughout the data sheet	July 2026

Americas Headquarters
Cisco Systems, Inc.
San Jose, CA

Asia Pacific Headquarters
Cisco Systems (USA) Pte. Ltd.
Singapore

Europe Headquarters
Cisco Systems International BV Amsterdam,
The Netherlands

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