

BRAND NEW & VERIFIED



VERIFIED PRODUCT DATASHEET

N9K-C93600CD-GX

Cisco Network Hardware Specification, Availability and Quote Reference

Product Model	N9K-C93600CD-GX
Document Type	Product Datasheet
Condition	Brand New, Original and Verified
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N9K-C93600CD-GX Datasheet

The Cisco N9K-C93600CD-GX datasheet provides verified specifications, key features, and application scenarios. This document helps engineers and IT buyers quickly evaluate the N9K-C93600CD-GX and integrate it into enterprise or service provider networks with confidence.



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Key Features

Mixed 100G and 400G migration in one switch

N9K-C93600CD-GX is ideal when a data center still has many 40G/100G QSFP28 links but needs to add 400G QSFP-DD capacity. This mixed-port design helps reduce migration risk and protects existing optical investment.

Strong 1RU spine-and-leaf performance

With **12 Tbps bandwidth** and **4.0 Bpps forwarding**, this switch is built for high-throughput spine-leaf fabrics, cloud workloads, east-west traffic, and large-scale aggregation designs.

ACI and NX-OS deployment flexibility

The platform supports both **Cisco ACI** and **Cisco NX-OS** operating models. This makes it suitable for organizations standardizing on Nexus 9000 hardware while choosing different operational architectures.

Flexible speed and breakout planning

N9K-C93600CD-GX supports 40G/100G on QSFP28 ports and 40G/100G/400G on QSFP-DD ports, with breakout options for mixed-speed designs. This is useful in brownfield upgrades where not every connection moves to 100G or 400G at the same time.

Built for AI/ML and cloud-scale traffic

The Nexus 9300-GX platform supports congestion management, flow control, telemetry, PFC, ECN, RoCE-related DCB features, WRED, AFD, and Dynamic Packet Prioritization, helping support demanding AI/ML and high-bandwidth data center fabrics.

Production-ready redundancy

Hot-swappable power supplies and fans with N+1 redundancy, vPC, 64-way ECMP, SMU, and ISSU support help reduce operational risk in production data center environments.

Specification

Parameter	Details	Parameter	Details
Product SKU	N9K-C93600CD-GX	Product Name	Cisco Nexus 93600CD-GX Switch
Product Series	Cisco Nexus 9300-GX Series	Switch Role	Spine and Leaf switch
Form Factor	1RU	Operating Modes	Cisco NX-OS mode / Cisco ACI mode
Port Configuration	28 × 100/40G QSFP28 + 8 × 400/100G QSFP-DD	QSFP28 Ports	28 × 100/40G
QSFP-DD Ports	8 × 400/100G	Total Bandwidth	12 Tbps
Forwarding Rate	4.0 Bpps	Supported Downlink Speeds	40G / 100G on QSFP28 ports
Supported Uplink Speeds	40G / 100G / 400G on QSFP-DD ports	10G Support	10G with QSA
Breakout Support	Supported on QSFP28 and QSFP-DD ports depending on port range	CPU	4 cores
System Memory	32 GB	SSD Drive	128 GB
System Buffer	80 MB	Management Ports	2 ports: 1 RJ-45 and 1 SFP
USB Ports	1	RS-232 Serial Ports	1
Power Supplies	1100W AC, 1100W DC, 1100W HVAC/HVDC	Typical Power	586W AC
Maximum Power	1071W AC	AC Input Voltage	100 to 240V
HVAC Input Voltage	100 to 277V	DC Input Voltage	-40 to -72V
HVDC Input Voltage	-240 to -380V	AC Frequency	50 to 60 Hz
Fan Redundancy	5+1 redundancy	Airflow Options	Port-side intake and port-side exhaust
Dimensions	1.72 × 17.37 × 25.5 in. / 4.37 × 44.13 × 64.8 cm	Weight	28 lb / 12.7 kg without power supplies or fans
Acoustics	73.2 dBA at 50% fan speed; 81.8 dBA at 70%; 88.8 dBA at 100%	MTBF	295,515 hours
Minimum ACI Image	ACI-N9KDK9-14.2(2e)	Minimum NX-OS Image	NXOS-9.3.3

Parameter	Details	Parameter	Details
ACI Spine Support	Yes	ACI Leaf Support	Yes
Maximum IPv4 LPM Routes	896,000	Maximum IPv4 Host Entries	896,000
Maximum IPv6 LPM Routes	448,000	Maximum IPv6 Host Entries	896,000
Maximum MAC Address Entries	512,000	Maximum Multicast Routes	32,000
IGMP Snooping Groups	Shipping: 8,000; Maximum: 32,000	ACL Entries	Max 20,000 ingress / 8,000 egress
Maximum VLANs	4096, with 127 reserved	VRF Instances	Shipping: 1000; Maximum: 16,000
Maximum ECMP Paths	64	Maximum Port Channels	512
Maximum Links per Port Channel	32	Active SPAN Sessions	4
RPVST VLAN Instances	3967	HSRP Groups	490
MST Instances	64	Flow Table for Tetration Analytics	64,000
NAT Entries	1023	RoHS Compliance	Yes
Safety Standards	UL 60950-1, CSA 60950-1, EN 60950-1, IEC 60950-1, AS/NZS 60950-1, GB4943	-	-

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- WhatsApp: [+8617181189993](https://wa.me/+8617181189993)
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