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VERIFIED PRODUCT DATASHEET

N9K-C93180YC-FX3

Cisco Network Hardware Specification, Availability and Quote Reference

Product Model	N9K-C93180YC-FX3
Document Type	Product Datasheet
Condition	Brand New, Original and Verified
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N9K-C93180YC-FX3 Datasheet



The Cisco N9K-C93180YC-FX3 datasheet provides verified specifications, key features, and application scenarios. This document helps engineers and IT buyers quickly evaluate the N9K-C93180YC-FX3 and integrate it into enterprise or service provider networks with confidence.

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Key Features

High-Density 25G Migration

Seamless Upgrade Path. Features 48 native 25G SFP28 ports that are backward compatible with 1G and 10G SFP+. This allows data centers to upgrade servers to 25G connectivity using existing cabling infrastructure, delivering 2.5x the bandwidth of 10G for data-intensive applications like IP storage and big data analytics.

Cloud Scale FX3 ASIC

Advanced Telemetry. Powered by the latest FX3 ASIC, this switch provides superior scale and visibility. It supports massive routing tables (LPM) and flow tables, along with hardware-native streaming telemetry. This enables granular monitoring of every packet and flow, helping operators troubleshoot microbursts and latency issues in real-time.

Line-Rate MACsec Encryption

Secure Data Transport. Supports IEEE 802.1AE MACsec encryption on all ports (downlinks and uplinks) at line rate. This ensures that data traffic within the data center or across DCI (Data Center Interconnect) links is encrypted and secure from physical tapping or snooping, without degrading network performance.

ACI and NX-OS Dual-Mode

Flexible Deployment. Offers investment protection by supporting two operating modes. It can be deployed in standard Cisco NX-OS mode for traditional programmable networks or in ACI mode for fully automated, policy-driven fabric architectures, allowing organizations to migrate to SDN at their own pace.

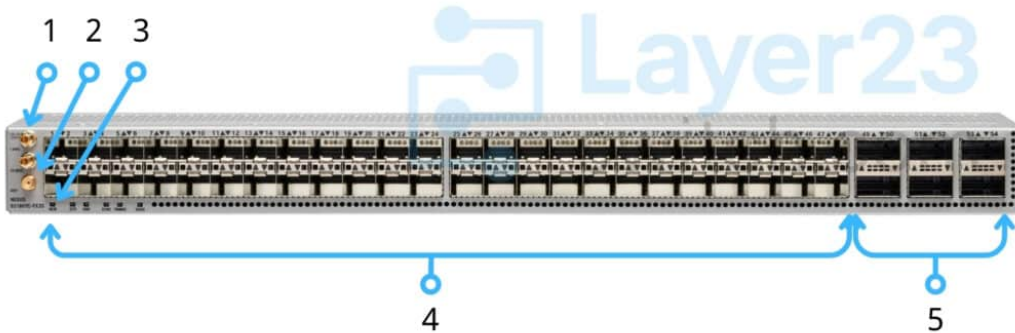
Intelligent Buffer Management

Lossless Ethernet. Equipped with a 40 MB intelligent shared buffer, the switch effectively absorbs microbursts common in high-frequency trading and storage environments. It supports advanced congestion control mechanisms like ECN (Explicit Congestion Notification) and PFC (Priority Flow Control) for RDMA over Converged Ethernet (RoCE).

Compact High Efficiency

Green Design. Delivers 3.6 Tbps of bandwidth in a compact 1RU form factor. It is designed for energy efficiency, utilizing platinum-rated power supplies and variable-speed fans to minimize power consumption and cooling costs in dense rack deployments.

Nexus N9K-C93180YC-FX3 Front Panel



1	1PPS and 10MHz SMB ports	4	48 100M/1/10/25-Gigabit Ethernet SFP28 ports
2	GPS/GNSS antenna connector	5	6 10/25/40/50/100-Gigabit QSFP28 ports
3	LEDs: The function is the same for the port and rear side of switch		

Nexus N9K-C93180YC-FX3 Rear Panel



1	Power supply modules (1 or 2) (AC power supplies shown) with slots numbered 1 (left) and 2 (right)	4	Management port (RJ45)
2	Fan modules (4) with slots numbered from 1 (left) to 4 (right)	5	USB port
3	Console port	6	ToD port

Specification

Parameter	Details	Parameter	Details
Model SKU	N9K-C93180YC-FX3	Series Family	Cisco Nexus 9300-FX3
Downlink Ports	48 x 1/10/25-Gbps SFP28	Uplink Ports	6 x 40/100-Gbps QSFP28
Switching Capacity	3.6 Tbps	Forwarding Rate	1.2 Bpps
CPU	4 cores	System Memory	32 GB
SSD Storage	128 GB	Buffer Size	40 MB
Management Ports	2 x 10/100/1000 Base-T	Console Ports	1 x RS-232
USB Ports	1 x USB 3.0	Power Supplies	2 (Redundant, Hot-swappable)

Parameter	Details	Parameter	Details
Fans	4 (Redundant, Hot-swappable)	Airflow	Port-side intake or exhaust
MAC Address Table	92,000 / 128,000 (varies by mode)	VLANs	3,967
Longest Prefix Match (LPM) Routes	896,000 (IPv4) / 448,000 (IPv6)	IP Host Entries	896,000 (IPv4) / 448,000 (IPv6)
Multicast Routes	32,000	IGMP Groups	32,000
ACI Support	Yes	NX-OS Support	Yes
MACsec Encryption	Yes, on all ports	PTP (Precision Time Protocol)	Yes (Boundary Clock)
MTBF (Hours)	349,190	Typical Power Consumption	260 W (50% load)
Max Power Consumption	425 W	Heat Dissipation	1450 BTU/hr (Max)
Height	1.72 in (4.4 cm)	Width	17.3 in (43.9 cm)
Depth	19.6 in (49.8 cm)	Weight	22.4 lb (10.16 kg)
Operating Temperature	32°F to 104°F (0°C to 40°C)	Acoustic Noise	60.9 dBA (Typical)

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