

BRAND NEW &amp; VERIFIED



## VERIFIED PRODUCT DATASHEET

# N9K-C9336C-FX2

Cisco Network Hardware Specification, Availability and Quote Reference

<b>Product Model</b>	<b>N9K-C9336C-FX2</b>
<b>Document Type</b>	<b>Product Datasheet</b>
<b>Condition</b>	<b>Brand New, Original and Verified</b>
<b>Supplier</b>	<b>Layer23-Switch.com</b>

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## N9K-C9336C-FX2 Datasheet

The Cisco N9K-C9336C-FX2 datasheet provides verified specifications, key features, and application scenarios. This document helps engineers and IT buyers quickly evaluate the N9K-C9336C-FX2 and integrate it into enterprise or service provider networks with confidence.

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### Key Features

## High-Density 100G Switching

Delivers 7.2 Tbps non-blocking throughput with **36 × QSFP28 40/100-Gigabit Ethernet** ports, supporting flexible breakout to **4×25G, 2×50G, or 1/10G via QSA**, ideal for modern spine-leaf or aggregation layers.

## Advanced Security with MACsec Encryption

Provides **wire-rate Layer 2 encryption** for all  $\geq 1\text{G}$  interfaces, ensuring secure data transport in cloud data centers, enterprise cores, and inter-DC connections.

## VXLAN EVPN and Segment Routing Support

Enables scalable **overlay networks** with multi-site VXLAN EVPN fabrics, plus efficient **Segment Routing** for optimized traffic engineering in large-scale deployments.

## Line-Rate Telemetry and Analytics

ASIC-level **real-time telemetry** with microsecond granularity helps detect microbursts, monitor latency, and proactively troubleshoot network performance.

## Flexible Power and Cooling Options

Supports AC, DC, and HVAC/HVDC power supplies, with **port-side intake or exhaust airflow**, making it adaptable to different data center designs and hot/cold aisle layouts.

## Compact 1RU Form Factor with High Reliability

Saves rack space while offering hot-swappable redundant power supplies and fan trays, ensuring **carrier-grade availability** in mission-critical environments.

### Specification

Parameter	Value	Parameter	Value
<b>Ports</b>	36 × 40/100-Gbps QSFP28	<b>Supported Speeds</b>	1/10/25/40/100-Gbps Ethernet
<b>Breakout Support</b>	100G, 2×50G NRZ, 40G native, 4×10/25G (10G w/QSA), 1G w/QSA except ports 1–6 & 33–36	<b>Switching Capacity</b>	7.2 Tbps
<b>Forwarding Rate</b>	Over 2.4 bpps	<b>CPU</b>	4 cores
<b>System Memory</b>	24 GB	<b>SSD Drive</b>	128 GB
<b>System Buffer</b>	40 MB	<b>Management Ports</b>	1 × RJ-45, 1 × SFP+
<b>USB Ports</b>	1	<b>RS-232 Serial Port</b>	1
<b>Power Supply Options</b>	750W AC2, 1100W AC, 1100W DC, 1100W HVAC/HVDC	<b>Typical Power (AC)</b>	337W
<b>Maximum Power (AC)</b>	719W	<b>Input Voltage (AC)</b>	100–240V
<b>Input Voltage (HVAC)</b>	100–277V	<b>Input Voltage (DC)</b>	–40 to –72V
<b>Input Voltage (HVDC)</b>	–240 to –380V	<b>Frequency</b>	50–60 Hz
<b>Fans</b>	3 dual fan trays	<b>Airflow</b>	Port-side intake and exhaust
<b>Dimensions (H × W × D)</b>	1.72 × 17.3 × 24.5 in. (4.4 × 43.9 × 62.3 cm)	<b>Acoustics</b>	76.2 dBA (50% fan), 85.3 dBA (70% fan), 92.3 dBA (100% fan)
<b>Weight</b>	18.8 lb (8.5 kg)	<b>MTBF</b>	335,900 hours
<b>Operating Temperature</b>	32 to 104°F (0 to 40°C)	<b>Storage Temperature</b>	–40 to 158°F (–40 to 70°C)
<b>Humidity</b>	5% to 95% non-condensing	<b>Altitude</b>	0 to 13,123 ft (0 to 4000 m)
<b>VLANs Supported</b>	4096 (127 reserved)	<b>VRF Instances</b>	Up to 16,000

Parameter	Value	Parameter	Value
IPv4 Routes (LPM)	896,000	IPv6 Routes (LPM)	498,000
MAC Address Entries	256,000	Multicast Routes	128,000

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- WhatsApp: [+8617181189993](https://wa.me/+8617181189993)
- Wechat: [layer23-switch](https://weixin.qq.com/q/layer23-switch)
- Telegram: [layer23\\_switch](https://t.me/layer23_switch)
- Email: [sales@layer23-switch.com](mailto:sales@layer23-switch.com)

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