



C9500-32C-A DataSheet

Buy Cisco C9500-32C-A—32-port 100 G QSFP28 Catalyst 9500 switch with DNA Advantage, 6.4 Tbps fabric, dual 1 600 W PSUs, MACsec-256 and SD-Access readiness.


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C9500-32C-A Description

Cisco Catalyst C9500-32C-A—often called the Cisco 9500 32C Advantage switch—is a 1 RU fixed-core platform that delivers 32 QSFP28 ports of wire-rate 100-Gigabit Ethernet (or 40 G, or 4 × 25 G/10 G breakout) for modern enterprise, campus, and metro cores. Built on Cisco’s UADP-3.0 ASIC, it provides 6.4 Tbps switching, 4.8 Bpps forwarding, line-rate MACsec-256 encryption, and Cisco DNA Advantage software for SD-Access automation, encrypted traffic analytics, and telemetry. Dual hot-swap 1 600 W PSUs and N+1 modular fans keep uptime high, while IOS XE APIs integrate cleanly with Ansible, Terraform and Cisco DNA Center for zero-touch operations.

Model Meaning

Code	Meaning
C	Cisco Catalyst family
9500	9500 Series fixed-core/aggregation switch
32C	32 × QSFP28 ports (100 G/40 G capable)
A	Advantage hardware SKU (ships with Cisco DNA Advantage term licence)

Model Comparison

Parameter	C9500-32C-A	C9500-32C-E	C9500-32QC-A
Licence Tier	Advantage	Essentials	Advantage
Downlink Ports	32 × QSFP28	32 × QSFP28	32 × QSFP28 (16 × 100 G or 32 × 40 G)
Max Speed / Port	100 G	100 G	100 G (top row)
Breakout Support	4 × 25 G/10 G	4 × 25 G/10 G	Not supported
Switching Capacity	6.4 Tbps	6.4 Tbps	6.4 Tbps
Forwarding Rate	4.8 Bpps	4.8 Bpps	4.8 Bpps
MACsec-256	Yes	Yes	Yes
Typical Power Draw	≈ 750 W	≈ 750 W	≈ 730 W
PSU Options	1 600 W AC/DC	1 600 W AC/DC	650 W / 1 600 W AC
Dimensions (H×W×D)	1 RU, 44.5 × 437 × 457 mm	Same	1 RU, 44.5 × 437 × 457 mm
Weight	≈ 9.9 kg	≈ 9.9 kg	≈ 10 kg
StackWise-Virtual	Yes (2 × 100 G)	Yes	Yes

Specification

Parameter	Value	Parameter	Value
Product ID	C9500-32C-A	Series	Catalyst 9500 High-Performance
Ports	32 × QSFP28	Port Speeds	100 G/40 G; 4 × 25 G/10 G breakout
Switching Capacity	6.4 Tbps	Forwarding Rate	4.8 Bpps
ASIC / CPU	UADP-3.0; 4-core x86	System Memory	16 GB DRAM
Flash / SSD	32 GB eMMC + optional SATA SS	MAC Addresses	128 K
VLANs	4 K	ACL Entries	32 K (IPv4/IPv6)
Encryption	Line-rate MACsec-256	Secure Boot	TPM 2.0-based Trust Anchor
Stacking / Virtual	StackWise-Virtual (2 × 100 G)	SD-Access	Fabric Edge/Core ready
Licence Tier	DNA Advantage	APIs	NETCONF, RESTCONF, gNMI, GNMI-gRPC
PSUs Supported	1 600 W AC/DC hot-swap	Redundancy	N+1 PSU / N+1 Fans
Fan Modules	5 (or 6) modular fans	Airflow Options	Front-to-Back or Back-to-Front
Typical Power	≈ 750 W @ 50 % load	Heat Dissipation	≈ 2 560 BTU/hr
Sound Power	≤ 76.7 dB LWAd	Operating Temp	0 – 40 °C
Relative Humidity	5 – 90 % (non-cond.)	Operating Altitude	Up to 1 800 m
Dimensions	1 RU, 44.5 × 437 × 457 mm	Weight	≈ 9.9 kg
Management Ports	1 × RJ-45, 1 × USB 3.0	Console Ports	USB-C & RJ-45
Compliance	CE, UL, NEBS-3 (option)	Warranty	Cisco Enhanced LLW

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