



C9500-24X-A DataSheet

Cisco C9500-24X-A—24-port 10 G SFP+ Catalyst 9500 switch with DNA Advantage, MACsec-256, modular 8 × 10 G uplinks, dual 950 W PSUs and SD-Access fabric.

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C9500-24X-A Description

Cisco Catalyst C9500-24X-A—often searched as Cisco 9500 24X Advantage switch—is a 1-RU fixed-core platform that delivers 24 wire-rate 10 Gigabit fibre ports by combining 16 native SFP+ interfaces with an 8-port C9500-NM-8X uplink module. Powered by Cisco’s UADP ASIC, it offers ≈ 480 Gbps switching and line-rate MACsec-256 encryption while the DNA Advantage software tier unlocks SD-Access fabric automation, Encrypted Traffic Analytics and advanced routing. Dual hot-swap 950 W PSUs, N+1 modular fans and model-driven APIs (NETCONF/RESTCONF, gNMI) make the C9500-24X-A a secure, programmable and always-on campus or data-centre core.

Model Meaning

Code	Meaning
C	Cisco Catalyst fixed-form-factor switch
9500	9500 Series campus/core platform
24X	16 × 10 G SFP/SFP+ down-links + 8 × 10 G SFP+ network-module uplinks
A	DNA Advantage hardware SKU (ships with Cisco DNA Adv licence)

Model Comparison

Parameter	C9500-24X-A	C9500-24X-E	C9500-40X-A
Licence Tier	DNA Advantage	DNA Essentials	DNA Advantage
Total 10 G Ports	24 (16 + 8 NM)	24 (16 + 8 NM)	40
Uplink Module	8 × 10 G NM	8 × 10 G NM	8 × 10 G / 2 × 40 G NM
Switching Capacity	≈ 960 Gbps	≈ 960 Gbps	≈ 800 Gbps
Forwarding Rate	≈ 1440 Mpps	≈ 1440 Mpps	≈ 595 Mpps
MACsec-256	Yes	Yes	Yes
SD-Access Role	Fabric Edge/Core	Edge	Edge/Core
Default PSUs	2 × 950 W AC	2 × 950 W AC	2 × 950 W AC
Dimensions (H×W×D)	1.73 × 17.5 × 21.2 in	Same	Same
Weight	≈ 11.6 kg	≈ 11.6 kg	≈ 10.7 kg
Acoustic Rating	≤ 68.3 dB	≤ 68.3 dB	≤ 68.3 dB

Specification

Parameter	Value	Parameter	Value
Product ID	C9500-24X-A	Series	Catalyst 9500
Fixed Down-links	16 × 10 G SFP/SFP+	Network Module	8 × 10 G SFP+ (C9500-NM-8X)
Total 10 G Ports	24	Switching Capacity	≈ 480 Gbps
Forwarding Rate	≈ 357 Mpps	MACsec Encryption	256-bit line-rate
CPU	4-core x86	System Memory	16 GB DRAM
On-board Storage	16 GB eMMC	Stacking	StackWise Virtual via 40 G
SD-Access Capability	Fabric Edge/Core	Software Tier	DNA Advantage
Open APIs	NETCONF, RESTCONF, gNMI	Telemetry	Model-driven streaming
Power Supplies	2 × 950 W AC, hot-swap	Fan Modules	N+1, front-to-back airflow
Typical Power Draw	≤ 350 W	Heat Dissipation	≈ 1 195 BTU/hr
Dimensions (H×W×D)	1.73 × 17.5 × 21.2 in (4.4 × 44.5 × 56.8 cm)	Weight	≈ 11.6 kg
Operating Temperature	0 – 40 °C	Relative Humidity	5 – 90 % non-cond.
Sound Power	≤ 68.3 dB LWAd	Altitude	Up to 1 800 m
MAC Table Size	128 K	VLANs Supported	4 000
ACL Entries	32 K (IPv4/IPv6)	QoS Queues	8 per port
Management Ports	1 × RJ-45 OOB, 1 × USB 3.0	Console Ports	USB-C & RJ-45
Precision Timing	IEEE 1588 PTP	Warranty	Cisco Enhanced LLW
Mounting	Standard 19-in rack kit	High Availability	ISSU / NSF support

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