



C9500-32C-E DataSheet

Buy Cisco C9500-32C-E—32-port 100 G QSFP28 Catalyst 9500 core switch with Essentials license, dual hot-swap PSUs, MACsec-256 and SD-Access ready automation.


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C9500-32C-E Description



Cisco Catalyst C9500-32C-E is a high-performance 1 RU fixed-core switch designed for enterprise and campus aggregation layers that are upgrading to 100-Gigabit Ethernet. With 32 QSFP28 ports (each supporting 100 G, 40 G or 4 × 25 G/10 G break-out) and an Essentials hardware SKU, the C9500-32C-E—also known as the Cisco 9500 32C Essentials switch—offers wire-rate Layer 2/3 forwarding, advanced telemetry, and secure segmentation with MACsec-256. Part of the Catalyst 9000 family, it runs Cisco IOS XE, enabling SD-Access fabric automation and rich programmability for hybrid-cloud networking.

Model Meaning

Code	Meaning
C	Cisco Catalyst family
9500	9500 Series fixed-core/aggregation switch
32C	32 × QSFP28 ports configurable for 100 GbE or 40 GbE
E	Network Essentials hardware SKU (ships with Cisco DNA Essentials term license)

Model Comparison

Parameter	C9500-32C-E	C9500-32C-A	C9500-48Y4C-E
Switching ASIC	UADP 3.0	UADP 3.0	UADP 3.0
Downlink Ports	32 × QSFP28	32 × QSFP28	48 × SFP28
Max Speed / Port	100 G	100 G	25 G
Break-out Support	4 × 25 G/10 G	4 × 25 G/10 G	4 × 100 G uplinks
License Tier	Essentials	Advantage	Essentials
Switching Cap.	6.4 Tbps	6.4 Tbps	4.8 Tbps
MACsec-256	Yes	Yes	Yes
PSUs (max)	2	2	2
Fan Modules	6, field-replaceable	6	5
Typical Power	750 W	750 W	650 W
Dimensions (H×W×D)	1RU, 44.5 × 437 × 600 mm	Same	1RU, 44.5 × 437 × 600 mm

Specification

Parameter	Value	Parameter	Value
Product ID	C9500-32C-E	Series	Catalyst 9500 High-Performance
Ports	32 × QSFP28	Port Speeds	100 G/40 G native; 4 × 25 G/10 G breakout
Switching Capacity	6.4 Tbps	Forwarding Rate	4.8 Bpps
MAC Address Table	128 K	VLANs	4 K
Stacking/VSF	StackWise-Virtual 2 × 100 G	SD-Access	Ready (Fabric Edge/Core)
Encryption	Line-rate MACsec-256	Trust Anchor	Yes (TPM 2.0)
CPU / Memory	4-core x86, 16 GB DRAM	Flash	32 GB eMMC + optional SSD
Management Ports	1 × RJ-45 Mgmt, 1 × USB 3.0	Console	USB-C & RJ-45
PSUs Supported	1600 W AC/DC, Hot-swap	Redundancy	N+1 PSU / N+1 Fans
Typical Power Draw	≈ 750 W at 50% load	Heat Dissipation	2 560 BTU/hr
Operating Temp	0 – 45 °C	Altitude	Up to 3 000 m
Dimensions	1 RU (44 × 437 × 600 mm)	Weight	≈ 17 kg (fully loaded)
Certifications	CE, UL, NEBS-3 (option)	Warranty	Cisco E-LLW

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