



C9500-16X-E DataSheet

Cisco C9500-16X-E - 16x10 G SFP+ core switch with optional 40 G uplinks, MACsec-256 and redundant PSU, ideal for campus or SMB data-centre aggregation.

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C9500-16X-E Description



C9500-16X-E is Cisco's compact Catalyst 9500 Series 1RU 10 Gigabit aggregation/core switch. The 16-port optical platform, powered by Cisco IOS-XE, delivers wire-speed Layer 2/3 routing, MACsec-256 encryption and full SD-Access automation. A hot-swappable network-module bay adds either 8 x 10 G SFP+ or 2 x 40 G QSFP+ uplinks for flexible campus or data-centre spine-leaf designs. Dual field-replaceable fans and redundant 950 W AC/-48 V DC supplies keep networks always-on while Smart Licensing and DNA Center integration simplify lifecycle management. Target keywords: C9500-16X-E switch, Catalyst 9500 16-port 10G, Cisco core aggregation switch.

Model Meaning

Segment	Meaning
C	Cisco Catalyst fixed-form-factor switch family
9500	Enterprise-class Core/Aggregation “9500 Series”
-16X	16 × 10 Gigabit SFP/SFP+ down-link ports on the base chassis
-E	DNA Essentials perpetual network-stack licence bundle

Model Comparison

Parameter	C9500-16X-E	C9500-16X-2Q-E	C9500-40X-E
Down-link ports	16 × 10 G SFP+	16 × 10 G SFP+	40 × 10 G SFP+
Uplink option	NM-bay (empty)	Fixed 2 × 40 G QSFP+	NM-bay (empty)
Switching capacity	320 Gbps*	400 Gbps*	800 Gbps*
Forwarding rate	238 Mpps*	300 Mpps*	595 Mpps*
MACsec-256	Yes	Yes	Yes
Redundant PSUs	2 (950 W)	2 (950 W)	2 (950 W)
Dimensions (H × W × D)	1.73 × 17.5 × 21.2 in	Same	Same
Weight	11.63 kg	11.7 kg	10.7 kg
Base licence	DNA Essentials	DNA Essentials	DNA Essentials
Ideal role	Compact core	Core with 40 G uplinks	Dense 10 G aggregation

Specification

Parameter	Value	Parameter	Value
Product ID	C9500-16X-E	Series	Catalyst 9500 High-Performance
Down-link Ports	16 × 10 G SFP/SFP+	Uplink Module Bay	1 × Network Module slot
Modular Uplink Choices	8 × 10 G SFP+ or 2 × 40 G QSFP+	Switching Capacity	≈ 320 Gbps
Forwarding Rate	≈ 238 Mpps	MACsec Encryption	256-bit line-rate
CPU	4-core x86	System Memory	16 GB DRAM
On-board Storage	16 GB eMMC	Stacking Technology	StackWise Virtual
SD-Access Capability	Fabric Edge Ready	Power Supplies	Dual hot-swap 950 W AC
Typical Power Draw	≤ 320 W	Fan Modules	N+1 front-to-back
Dimensions (H×W×D)	1.73 × 17.5 × 21.2 in	Weight	≈ 25.6 lb / 11.6 kg
Operating Temperature	0 – 40 °C	Relative Humidity	5 – 90 % non-condensing
Heat Dissipation	≈ 1 092 BTU/hr	Sound Power	< 68.3 dB LWAd
Trust Anchor	Secure Boot (TPM 2.0)	VLANs Supported	4 000
MAC Address Table	128 K	ACL Entries	32 K (IPv4/IPv6)
QoS Hardware Queues	8 per port	Buffer Memory	32 MB
Management Ports	1 × RJ-45 OOB, 1 × USB 3.0	Console Ports	USB-C & RJ-45
Software License	DNA Essentials	Open APIs	NETCONF, RESTCONF, gNMI
Precision Timing	PTP (IEEE 1588)	Encryption Performance	Line-rate all ports
Regulatory Compliance	CE, FCC Class A	Warranty	Cisco Enhanced LLW
Mounting Option	Standard 19-in rack kit	Airflow Direction	Front-to-Back (reversible)
MTBF	> 300 000 hours	High Availability	ISSU / NSF support

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