



C9300X-48HXN-E DataSheet

Cisco Catalyst C9300X-48HXN-E: 48-port UPOE+ mixed mGig switch (8×10G + 40×5G), 1 Tbps stacking, 100 Gbps IPsec, AES-256 MACsec, 16 GB DRAM, modular uplinks.

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C9300X-48HXN-E Description



The Cisco Catalyst C9300X-48HXN-E (aka “48HXN UPOE+ mGig switch”) is engineered for high-density, power-hungry campus and branch access. Featuring 8×10 Gbps and 40×5 Gbps multigigabit UPOE+ downlinks, it delivers up to 90 W per port for heavy-duty wireless APs, IP telephony, and IoT endpoints. A 1 Tbps StackWise-1T fabric (1.96 Tbps stacked) ensures non-stop scalability, while hardware-accelerated 100 Gbps IPsec and AES-256 MACsec keep data secure at wire speed. On-switch application hosting—including 16 GB DRAM, 16 GB flash, and a USB 3.0 SSD slot—enables containerized services and analytics at the access layer. The Network Essentials license unlocks fundamental Layer 2/3, programmable QoS, and RESTCONF/NETCONF automation to simplify operations and accelerate digital transformation.

Model Meaning: Cisco C9300X-48HXN-E Switch

Segment	Meaning
C	Cisco Catalyst series
9300	9300 Series stackable enterprise access switch
X	UADP 2.0sec ASIC platform with hardware-based crypto and app hosting
48	48 downlink ports
H	Cisco UPOE+ support (up to 90 W per port)
XN	Mixed multigigabit density: 8×10 Gbps + 40×5 Gbps ports
-E	Network Essentials software license (core Layer 2/3, automation, troubleshooting)

Model Comparison

Parameter	C9300X-48HXN-E	C9300X-48HX-E	C9300X-48TX-E
Downlink Ports	8×10 Gbps + 40×5 Gbps UPOE+	48×10 Gbps UPOE+	48×10 Gbps multigigabit (no PoE)
PoE Power	Up to 90 W/port; 690 W budget default	Up to 90 W/port; 590 W budget	N/A
Stacking BW	1 Tbps (1.96 Tbps stacked)	1 Tbps (1.96 Tbps stacked)	1 Tbps (1.96 Tbps stacked)
Switching Capacity	960 Gbps non-blocking fabric	1,760 Gbps	1,760 Gbps
Forwarding Rate	714.24 Mpps standalone	1,309 Mpps	1,309 Mpps
IPsec	100 Gbps line-rate	100 Gbps line-rate	100 Gbps line-rate
MACsec	AES-256	AES-256	AES-256
DRAM / Flash	16 GB / 16 GB	16 GB / 16 GB	16 GB / 16 GB
App Hosting	2×10 Gbps AppGig, x86 CPU	2×10 Gbps AppGig, x86 CPU	2×10 Gbps AppGig, x86 CPU
Uplink Slots	4 modular (10/25/40/100 Gbps)	4 modular	4 modular
License	Network Essentials (-E)	Network Essentials (-E)	Network Essentials (-E)

Specification

Parameter	Specification	Parameter	Specification
Model Number	C9300X-48HXN-E	Platform	Cisco Catalyst 9300X Series
Downlink Ports	8×10G + 40×5G UPOE+ (90 W)	Uplink Options	4× modular 10/25/40/100 Gbps
Stacking Bandwidth	1 Tbps / 1.96 Tbps stacked	Switching Capacity	960 Gbps non-blocking
Forwarding Rate	714.24 Mpps / 1,458.24 Mpps stacked	IPsec Throughput	100 Gbps
MACsec Encryption	AES-256	PoE Budget	690 W (1100 W PSU)
DRAM	16 GB	Flash	16 GB
External Storage	USB 3.0 SSD slot (240 GB)	App Hosting	2×10 Gbps AppGig ports
Packet Buffer	16 MB	FNF Entries	64,000 flows
IPv4 Routes	39,000	IPv6 Routes	19,500
VLAN IDs	4,094	QoS Entries	5,120
ACL Entries	8,000	MAC Addresses	32,000
MTBF	188,200 hours	Dimensions	1.73"×17.5"×17.57" chassis only 1.73"×17.5"×20.63" w/ 1100 W PSU
Weight	14.2 lb (6.44 kg)	Operating Temp.	-5 °C to 45 °C
Redundant PSU	Supported	License	Network Essentials (-E)

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