



C9300X-48HX-E DataSheet

Cisco Catalyst C9300X-48HX-E: 48-port UPOE+ multigigabit switch with 1 Tbps stacking, 100 Gbps IPsec, AES-256 MACsec, 16 GB RAM, modular uplinks.

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C9300X-48HX-E Description



C9300X-48HX-E is a high-performance Cisco Catalyst 9300X series switch, also known as the “48HX UPOE+ switch” or “48-port 10G multigigabit UPOE+ access switch.” Engineered for modern campus networks, it combines 48 × 10 Gbps multigigabit UPOE+ downlinks, 1 Tbps StackWise-1T stacking, and 100 Gbps hardware IPsec in a single device. The C9300X-48HX-E supports advanced security features like AES-256 MACsec and Encrypted Traffic Analytics, plus doubled app-hosting resources for on-switch containerized services. Its Network Essentials (-E) license enables fundamental Layer 2/3 switching, automation (NETCONF/RESTCONF), and troubleshooting capabilities.

Model Meaning: Cisco C9300X-48HX-E Switch

Segment	Meaning
C	Cisco Catalyst series
9300	9300 Series stackable enterprise access switch
X	9300X platform (UADP 2.0sec ASIC, line-rate 100 Gbps IPsec, enhanced app hosting)
48	48 downlink ports
H	UPOE+ ports, up to 90 W per port
X	10 Gbps multigigabit capable downlink ports
E	Network Essentials software license (basic Layer 2/3, automation, troubleshooting)

Model Comparison

Parameter	C9300X-48HX-E	C9300X-48TX-E	C9300-48U-E
Ports	48×10 Gbps UPOE+ multigig	48×10 Gbps multigig (no PoE)	48×1 Gbps UPOE
UPOE Power	Up to 90 W/port	N/A	Up to 60 W/port
Stacking Bandwidth	1 Tbps (StackWise-1T)	1 Tbps (StackWise-1T)	1 Tbps (StackWise-1T)
Switching Capacity	1,760 Gbps	1,760 Gbps	256 Gbps
Forwarding Rate	1,309 Mpps	1,309 Mpps	190.47 Mpps
IPsec Throughput	100 Gbps	100 Gbps	N/A
MACsec	AES-256	AES-256	AES-256
DRAM / Flash	16 GB / 16 GB	16 GB / 16 GB	8 GB / 16 GB
App Hosting	2×10 Gbps AppGig, x86 CPU	2×10 Gbps AppGig, x86 CPU	2×10 Gbps AppGig, x86 CPU
PoE Budget	590 W (1100 W PSU)	0 W	645 W (1100 W PSU)
License	Network Essentials (-E)	Network Essentials (-E)	Network Essentials (-E)

Specification

Parameter	Specification	Parameter	Specification
Model Number	C9300X-48HX-E	Platform	Cisco Catalyst 9300X Series
Downlink Ports	48×10G UPOE+ multigigabit	Uplink Options	Modular 10/25/40/100 Gbps
Stacking Bandwidth	1 Tbps (StackWise-1T)	Switching Capacity	1,760 Gbps non-blocking
Forwarding Rate	1,309 Mpps	IPsec Throughput	100 Gbps
MACsec Encryption	AES-256	DRAM	16 GB
Flash	16 GB	External Storage	USB 3.0 SSD (up to 240 GB)
CPU	x86 processor	App Hosting	2×10 Gbps AppGig
PoE Budget	590 W (1100 W PSU)	Redundant PSU	Supported
License	Network Essentials	VLAN IDs	4,094
QoS Scale	5,120 entries	ACL Scale	8,000 entries
Packet Buffer	32 MB	FNF Entries	128,000 flows
Routing Table	32,000 routes	IPv4 Hosts	24,000
IPv6 Hosts	12,000	Dimensions	1.73"×17.5"×22.03"
Weight	6.62 kg	Operating Temp.	-5 °C to 45 °C
Storage Temp.	-40 °C to 70 °C	Humidity	5%–95% non-condensing
Acoustic	45 dB typical	MTBF	>500,000 hours
Power Supply	1100 W AC (redundant)	Fan Type	Variable-speed chassis fans

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