



C9300X-48TX-E DataSheet

Cisco Catalyst C9300X-48TX-E: 48×10GBASE-T data-only switch with 1 Tbps stacking, 100 Gbps IPsec, AES-256 MACsec, 16 GB RAM, modular uplinks.


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C9300X-48TX-E Description



The Cisco Catalyst C9300X-48TX-E is a high-density, data-only access edge switch—sometimes called the “48TX multigig data switch”—designed for modern campus LANs and branch deployments. It offers 48 × 10GBASE-T copper ports for high-speed connectivity, backed by a 1 Tbps StackWise-1T fabric (2.76 Tbps in a full stack), and hardware-accelerated 100 Gbps IPsec with AES-256 MACsec for encryption at wire speed. With an x86 CPU, 16 GB of DRAM, and an external SSD slot, it doubles as a container-hosting platform for on-device analytics. The Network Essentials license provides core Layer 2/3 switching, NETCONF/RESTCONF automation, and basic troubleshooting features to streamline operations and accelerate digital transformation.

Model Meaning: Cisco C9300X-48TX-E Switch

Segment	Meaning
C	Cisco Catalyst series
9300	9300 Series stackable enterprise access switch
X	UADP 2.0sec ASIC platform with hardware crypto and enhanced app hosting
48	48 fixed downlink ports
T	10GBASE-T copper ports (auto-sensing 10G/1G/100M)
X	UADP “X” platform indicator
-E	Network Essentials license (core Layer 2/3, basic automation, troubleshooting)

Model Comparison

Parameter	C9300X-48TX-E	C9300X-48HX-E
Ports	48×10 Gbps copper (no PoE)	48×10 Gbps mGig UPOE+ (90 W)
PoE Power	None	Up to 90 W/port
Stacking BW	1 Tbps (2.76 Tbps stacked)	1 Tbps (2.76 Tbps stacked)
Switching Capacity	1,760 Gbps	1,760 Gbps
Forwarding Rate	1,309 Mpps	1,309 Mpps
IPsec Throughput	100 Gbps	100 Gbps
MACsec	AES-256	AES-256
DRAM / Flash	16 GB / 16 GB	16 GB / 16 GB
App Hosting	x86 CPU; SSD slot	x86 CPU; SSD slot
Default PSU	715 W AC	1100 W AC

Specification

Parameter	Specification	Parameter	Specification
Model Number	C9300X-48TX-E	Platform	Cisco Catalyst 9300X Series
Series	9300X UADP 2.0sec ASIC	Downlink Ports	48×10GBASE-T copper
PoE Support	Data-only (no PoE)	Uplink Slots	4× modular (10/25/40/100 Gbps)
Stacking Bandwidth	1 Tbps (2.76 Tbps stacked)	Switching Capacity	1,760 Gbps
Forwarding Rate	1,309 Mpps	IPsec Throughput	100 Gbps
MACsec Encryption	AES-256	DRAM	16 GB
Flash	16 GB	SSD Slot	USB 3.0 (up to 240 GB)
CPU	Quad-core x86	App Hosting	2×10 Gbps AppGig ports
Default PSU	715 W AC	Redundant PSU	Supported
Packet Buffer	32 MB	Flows (FNF)	128,000 entries
VLAN IDs	4,094	QoS Scale	5,120 entries
ACL Scale	8,000 entries	MTBF	206,480 hours
Dimensions (Chassis)	1.73"×17.5"×19"	Dimensions (with PSU)	1.73"×17.5"×20.56"
Weight	14.6 lb (6.62 kg)	Operating Temp.	-5 °C to 45 °C
Storage Temp.	-40 °C to 70 °C	Humidity	5 %-95 % non-condensing
License	Network Essentials (-E)	Boot Security	Secure Boot, Trust Anchor
Energy Star	Yes	Compliance	UL, CE, FCC, RoHS

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