



C9300X-48TX-A DataSheet

Cisco Catalyst C9300X-48TX-A: 48×10GBASE-T data-only switch with 1 Tbps stacking, 100 Gbps IPsec, AES-256 MACsec, Network Advantage license.

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C9300X-48TX-A Description

The Cisco Catalyst C9300X-48TX-A, also called the “48TX Advantage edge switch,” is a high-density 10GBASE-T access switch optimized for modern campus networks and branch-office deployments. Delivering 48 × 10 Gbps copper ports with auto-sensing down to 1 Gbps and 100 Mbps, it offers wire-speed performance through a 1 Tbps StackWise-1T fabric (2.76 Tbps in an eight-member stack). The C9300X-48TX-A features 100 Gbps hardware IPsec and AES-256 MACsec encryption for secure site-to-site VPN and link-level data protection. Powered by an on-device x86 CPU, 16 GB DRAM, 16 GB of flash, and a USB 3.0 SSD slot, this switch doubles as an application platform for containerized services and real-time analytics. The Network Advantage license unlocks advanced routing protocols (OSPF, BGP, EIGRP), MPLS, segment routing, and programmable QoS, making it ideal for converged access, virtualization, and digital transformation initiatives.

Model Meaning: Cisco C9300X-48TX-A Switch

Segment	Meaning
C	Cisco Catalyst series
9300	9300 Series stackable enterprise access switch
X	UADP 2.0sec ASIC platform with on-chip crypto and application hosting
48	48 fixed downlink ports
T	10GBASE-T copper ports (auto-sensing 10G/1G/100M)
X	"X" platform family indicator
-A	Network Advantage license (advanced Layer 3, MPLS, segment routing, enhanced security)

Model Comparison

Parameter	C9300X-48TX-A	C9300X-48TX-E	C9300X-48HX-A
Downlink Ports	48×10GBASE-T copper	48×10GBASE-T copper	48×10G mGig UPOE+
PoE/UPOE	None	None	Up to 90 W per port
Stacking BW	1 Tbps (2.76 Tbps stacked)	1 Tbps (2.76 Tbps stacked)	1 Tbps (2.76 Tbps stacked)
Switching Capacity	1,760 Gbps	1,760 Gbps	1,760 Gbps
Forwarding Rate	1,309 Mpps	1,309 Mpps	1,309 Mpps
IPsec	100 Gbps	100 Gbps	100 Gbps
MACsec	AES-256	AES-256	AES-256
DRAM / Flash	16 GB / 16 GB	16 GB / 16 GB	16 GB / 16 GB
App Hosting	x86 CPU; USB 3.0 SSD slot	x86 CPU; USB 3.0 SSD slot	x86 CPU; USB 3.0 SSD slot
License	Network Advantage	Network Essentials	Network Advantage

Specification

Parameter	Specification	Parameter	Specification
Model Number	C9300X-48TX-A	Platform	Cisco Catalyst 9300X Series
ASIC	UADP 2.0sec	Downlink Ports	48×10GBASE-T copper
UPOE/PoE	None (data-only)	Uplink Slots	4× modular 10/25/40/100 Gbps
StackWise Fabric	1 Tbps / 2.76 Tbps stacked	Switching Capacity	1,760 Gbps
Forwarding Rate	1,309 Mpps	IPsec Throughput	100 Gbps
MACsec Encryption	AES-256	CPU	Quad-core x86
DRAM	16 GB	Flash	16 GB
SSD Slot	USB 3.0 (up to 240 GB)	Packet Buffer	32 MB
Flows (FNF)	128,000 entries	IPv4 Routes	32,000
IPv6 Routes	16,000	VLAN IDs	4,094
QoS Entries	5,120	ACL Entries	8,000
MTBF	206,480 hours	Operating Temp.	-5 °C to 45 °C
Storage Temp.	-40 °C to 70 °C	Humidity	5%-95% non-condensing
Dimensions (Chassis)	1.73"×17.5"×19"	Dimensions (with PSU)	1.73"×17.5"×20.56"
Weight	14.6 lb (6.62 kg)	Acoustic	45 dB typical
Power Supply	715 W AC (default)	Redundant PSU	Supported
Security Features	Secure Boot, Trust Anchor	Compliance	UL, CE, FCC, RoHS

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