

C9300-24T-E DATASHEET

Overview

The Cisco Catalyst C9300-24T-E is a high-performance, stackable enterprise access switch with 24 Gigabit Ethernet ports and one expansion slot. It delivers 208 Gbps switching capacity and a forwarding rate of 154.76 million packets per second. It is powered by Cisco IOS XE software, it supports advanced programmability, robust security features like Encrypted Traffic Analytics, and comprehensive Layer 2 and 3 routing capabilities. The switch is ideal for secure, scalable, and manageable enterprise networks. It comes in a compact 1U rack-mount design with efficient power management using Cisco StackPower technology.

QUICK SPEC

FIGURE 1: APPEARANCE OF C9300-24T-E



TABLE 1: Quick Specs

SKU	C9300-24T-E
Backplane speed	208 Gbps
Throughput	154.76 million packets per second (Mpps)
Ports	24 x 10/100/1000 Mbps (Gigabit Ethernet)
Dimensions (W x H x D)	17.5 in x 1.7 in x 17.5 in (445 mm x 43 mm x 445 mm)

Product Details

FIGURE 2: FRONT PANEL OF C9300-24T-E



FIGURE 3: BACK PANEL OF C9300-24T-E



C9300-24T-E Switch provides these features

1. 24 Gigabit Ethernet Ports with Expansion Slot

The switch offers 24 auto-sensing 10/100/1000 Mbps copper ports, which provide reliable high-speed connectivity, and an additional expansion slot allowing flexible uplink options for network scalability.

2. High Switching Capacity and Throughput

It delivers a robust switching capacity of 208 Gbps, expandable to 688 Gbps with Cisco StackWise-480 stacking technology. The forwarding rate of 154.76 million packets per second (Mpps) can scale up to 511.90 Mpps when stacked, supporting wire-speed data transfer even in demanding environments.

3. Large Network Scale Support

The C9300-24T-E supports up to 32,000 MAC addresses, 32,000 IPv4 routes, 16,000 IPv6 routes, and 4,000 VLAN IDs, making it suitable for large and complex network deployments with extensive segmentation and routing requirements.

4. Advanced Security and Programmability

It is powered by Cisco IOS XE, the switch includes security features like Trustworthy Systems, Encrypted Traffic Analytics, AES-128 encryption, and 802.1x authentication. Programmability features include NETCONF, RESTCONF, Python scripting, YANG models, and streaming telemetry for network automation and customization.

5. Power and Stack Management

It is equipped with a 350W AC power supply, the switch supports Cisco StackPower for power sharing and redundancy among stack members. StackWise-480 technology enables high-speed stacking of up to 8 switches for simplified management and resiliency.

6. Form Factor and Operating Environment

It is a compact 1U rack-mountable device with dimensions of approximately 1.7" x 17.5" x 17.5" (H x W x D) and weighs about 16 lbs. The switch is designed for enterprise data centers and network access layers with standards-based compliance and robust operating conditions.

SPECIFICATIONS

Model Number	C9300-24T-E
Weight	16.33 Pounds
Dimensions (H x W x D)	1.73 x 17.5 x 17.5 Inches
Cisco StackPower	Yes
Cisco StackWise-480	Yes
Total 10/100/1000 or Multigigabit copper ports	24
Default AC power supply	350W AC
Default power supply	PWR-C1-350WAC-P/2
Total number of MAC addresses 32,000	32,000
Switching capacity	208 Gbps on 24-port Gigabit Ethernet model
Stacking bandwidth	480 Gbps
Wireless bandwidth per switch	Up to 48 Gbps on 24-port Gigabit Ethernet model
Total number of MAC addresses	32,000
Total number of IPv4 routes (ARP plus learned routes)	32,000 (24,000 direct routes and 8000 indirect routes)
IPv4 routing entries	32,000
IPv6 routing entries	16,000
Multicast routing scale	8000
QoS scale entries	5120
ACL scale entries	5120
Packet buffer per SKU	16 MB buffer for 24- or 48-port Gigabit Ethernet models
FNF entries	64,000 flow on 24- and 48-port Gigabit Ethernet models
DRAM	8 GB
Flash	16 GB
VLAN IDs	4000
Total Switched Virtual Interfaces (SVIs)	2000
Jumbo frames	9198 bytes
Total routed ports per 9300 Series stack	208
Wireless bandwidth per switch	Up to 48 Gbps on 24-port Gigabit Ethernet model
Mean time between failures (hours)	299,000
Environmental	Reduction of Hazardous Substances (ROHS) 5



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