

C9300X-24Y-A Datasheet



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Overview

The Cisco Catalyst 9300 Series switches are Cisco's leading stackable enterprise switching platform, optimized for security, IoT, mobility, and cloud. They are the first to support high-density Wi-Fi 6 and 802.11ac Wave2. With an x86 CPU architecture and increased memory, they can host containers and run third-party applications. Designed with Cisco StackWise technology, they offer flexible deployment with nonstop forwarding (NSF/SSO) and efficient power management, supporting PoE+, UPOE, and 90W UPOE++ ports.



Quick Spec

Table 2 shows the recommended hardware.

Product Code	C9300X-24Y-A
Product Description	Catalyst 9300 24-port 25G/10G/1G SFP28 with modular uplinks, Network Advantage
Device Type	Switch - 24 ports - L3 - managed - stackable
Enclosure Type	Rack-mountable 1U
Subtype	25 Gigabit Ethernet
Ports	24 x 1/10/25 Gigabit SFP28
RAM	16 GB
Flash Memory	16 GB
Interfaces	24 x 1/10/25GBase-X SFP28

The Options

Table 2 shows the recommended hardware.

Model	Description
C9300-NM-4G	9300 Series 4x 1G Network Module
C9300-NM-4M	9300 Series 4 x Multigigabit Network Module
C9300-NM-8X	9300 Series 8x 10G Network Module
C9300-NM-2Q	9300 Series 2x 40G Network Module
C9300-NM-2Y	9300 Series 2x 25G Network Module
STACK-T1-50CM=	50CM Type 3 Stacking Cable
STACK-T1-1M=	1M Type 3 Stacking Cable
STACK-T1-3M=	3M Type 3 Stacking Cable
SSD-120G	Cisco pluggable USB3.0 SSD storage



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Specification

C9300X-24Y-A Specification	
Product Code	C9300X-24Y-A
Description	Catalyst 9300 24-port 25G/10G/1G SFP28 with modular uplinks, Network Advantage
General	
Device Type	Switch - 24 ports - L3 - managed - stackable
Enclosure Type	Rack-mountable 1U
Subtype	25 Gigabit Ethernet
Ports	24 x 1/10/25 Gigabit SFP28
Performance	Switching capacity: 2000 Gbps Switching capacity with stacking: 3000 Gbps Forwarding rate: 1488 Mpps Forwarding rate with stacking: 2232 Mpps
Capacity	IPv4 routing table entries: 39000 IPv6 routing table entries: 19500 Flexible NetFlow entries: 128000 VLAN IDs: 4094 Switched virtual interfaces (SVIs): 1000 Packet buffer size: 32 MB MAC addresses: 32000 Multicast routing flow table: 8000 QoS scale entries: 4000 ACL scale entries: 5000 PVST instances: 1000 STP Virtual Ports for PVST: 13000 STP Virtual Ports for MST: 1000 Jumbo frame size: 9198 byte
MAC Address Table Size	32000 entries
Jumbo Frame Support	9198 bytes
Routing Protocol	OSPF, IS-IS, RIP-1, RIP-2, IGMP, VRRP, PIM-SM, OSPFv3, PIM-SSM, policy based routing (PBR), RIPvng
Remote Management Protocol	SNMP 1, RMON 1, RMON 2, SNMP 3, SNMP 2c, CLI, NETCONF, RESTCONF
Encryption Algorithm	128-bit AES
Features	DHCP support, trunking, Syslog support, full duplex mode, Stateful switchover (SSO), Class-Based Weighted Fair Queuing (CBWFQ), Weighted Random Early Detection (WRED), Spanning Tree Protocol (STP) support, Access Control List (ACL) support, Quality of Service (QoS), Non-Stop Routing (NSR), Remote Switch Port Analyzer (RSPAN), Management Information Base (MIB), Cisco StackWise-480 technology, Cisco StackPower technology, Flexible NetFlow (FNF), Multicast Source Discovery Protocol (MSDP), 802.1x authentication, 16MB packet buffer, FTP client, MACsec support, 3 fans, Control plane protection (CoPP), Virtual Extensible LAN (VXLAN), Application Visibility and Control (AVC), Source-Specific Multicast (SSM), integrated Wireshark, VLAN Double Tagging (Q-in-Q), Ethernet over MPLS (EoMPLS), Hierarchical Virtual Private LAN Service (H-VPLS), Private VLAN, Layer 3 VPN (L3VPN) support, Encapsulated Remote SPAN (ERSPAN), Security Group Tag (SGT) caching, Security Group Access Control List (SGACL), IT Service Management (ITSM) integration, third-party IP Address Management (IPAM) integration, Cisco StackWise-1T technology
Compliant Standards	IEEE 802.3, IEEE 802.3u, IEEE 802.1D, IEEE 802.1Q, IEEE 802.3ab, IEEE 802.1p, IEEE 802.3af, IEEE 802.3x, IEEE 802.3ad (LACP), IEEE 802.1w, IEEE 802.1x, IEEE 802.1s, IEEE 802.3at
RAM	16 GB
Flash Memory	16 GB
Status Indicators	Status
Expansion / Connectivity	
Interfaces	24 x 1/10/25GBase-X SFP28 1 x USB 2.0
Expansion Slots	1 (total) / 1 (free) x expansion slot
Power	
Power Device	Internal power supply
Power Provided	715 Watt
Voltage Required	AC 120/230 V (50/60 Hz)



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Miscellaneous	
Compliant Standards	CISPR 22 Class A, CISPR 24, EN 61000-3-2, EN 61000-3-3, EN55024, EN50082-1, EN 61000-6-1, EN 61000-4-4, EN 61000-4-2, EN 61000-4-3, EN 61000-4-6, CCC, ICES-003 Class A, EN 61000-4-5, UL 60950-1, IEC 60950-1, EN 60950-1, RoHS, AS/NZS 3548 Class A, BSMI Class A, VCCI Class A, EN 55022 Class A, FCC CFR47 Part 15 A, EN 300 386, TVCN 7317, VCCI V-3/2009 Class A, CAN/CSA-C22.2 No. 60950-1
Dimensions & Weight	
Width	17.5 in
Depth	17.6 in
Height	1.7 in
Manufacturer Warranty	
Service & Support	Limited warranty - replacement - lifetime - response time: next business day Technical support - consulting - 90 days
Environmental Parameters	
Min Operating Temperature	23 °F
Max Operating Temperature	113 °F
Humidity Range Operating	5 - 90% (non-condensing)
Min Storage Temperature	-40 °F
Max Storage Temperature	158 °F
Humidity Range Storage	5 - 90% (non-condensing)

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