

Cisco Catalyst 9300 - Network Advantage - switch - 48 ports - Managed - rack-mountable (C9300-48P-A)

Cisco Catalyst 9300 - Network Advantage - switch - L3 - Managed - 48 x 10/100/1000 (PoE+) - rack-mountable - PoE+ (437 W)

Cisco Catalyst 9300 Series switches are Cisco's lead stackable enterprise access switching platform and as part of the Catalyst 9000 family, are built to transform your network to handle a hybrid world where the workplace is anywhere, endpoints could be anything, and applications are hosted all over the place.



Key Selling Points

- Cloud ready
- Optimized for mobility

Product Features

- BUILT-IN RESILIENCY**  
High-end fixed switching for Software-Defined Access, App hosting, high availability, assurance, and smart buildings
- HIGH PERFORMANCE AND SCALABILITY**  
Support for high-density 10G and 40G uplinks with up to 480 Gbps of stacking bandwidth for robust performance and network expansion.
- ADVANCED SECURITY**  
Features like Encrypted Traffic Analytics (ETA) and Cisco TrustSec provide comprehensive security, including Network Access Control (NAC) capabilities.
- UP TO 1TB OF STACKING BANDWIDTH**  
With Stackwise-1T, Catalyst 9300 switches are the industry's highest-density stacking bandwidth solution with the most flexible uplink architecture.
- CLOUD MANAGEMENT AND MONITORING**  
Cloud management and monitoring provides the ability to manage or view Catalyst 9300 switch statistics, configuration, and troubleshooting capabilities in Meraki dashboard.

Main Specifications

|                           |                                                                                                                                                                     |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Description       | Cisco Catalyst 9300 - Network Advantage - switch - 48 ports - Managed - rack-mountable                                                                              |
| Device Type               | Switch - 48 ports - L3 - Managed - stackable                                                                                                                        |
| Enclosure Type            | Rack-mountable 1U                                                                                                                                                   |
| Subtype                   | Gigabit Ethernet                                                                                                                                                    |
| Ports                     | 48 x 10/100/1000 (PoE+)                                                                                                                                             |
| Power Over Ethernet (PoE) | PoE+                                                                                                                                                                |
| PoE Budget                | 437 W                                                                                                                                                               |
| Performance               | Switching capacity: 128 Gbps   Stacking bandwidth: 480 Gbps   Forwarding rate: 190.48 Mpps                                                                          |
| Capacity                  | IPv4 routing table entries: 32000   IPv6 routing table entries: 16000   Flexible NetFlow entries: 64000   VLAN IDs: 4000   Switched virtual interfaces (SVIs): 2000 |
| MAC Address Table Size    | 32000 entries                                                                                                                                                       |
| Jumbo Frame Support       | 9198 bytes                                                                                                                                                          |

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Routing Protocol           | OSPF, IS-IS, RIP-1, RIP-2, BGP, EIGRP, HSRP, IGMP, VRRP, PIM-SM, OSPFv3, PIM-SSM, MSDP, policy-based routing (PBR), RIPng                                                                                                                                                                                                                                                                                                                                                             |
| Remote Management Protocol | SNMP 1, RMON 1, RMON 2, SNMP 3, SNMP 2c, CLI, NETCONF, RESTCONF                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Features                   | DHCP support, trunking, Syslog support, full duplex mode, SSO, CBWFQ, WRED, STP support, ACL support, QoS, NSR, RSPAN, MIB, Cisco StackWise-480 technology, Cisco StackPower technology, FNF, MSDP, 802.1x authentication, 16MB packet buffer, FTP client, MACsec support, 3 fans, CoPP, VXLAN, AVC, SSM, integrated Wireshark, VLAN Double Tagging (Q-in-Q), EoMPLS, H-VPLS, Private VLAN, L3VPN support, ERSPAN, SGT caching, SGACL, ITSM integration, third-party IPAM integration |
| 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                                                                                                                                                                                                                                                                                                     |
| Power                      | AC 120/230 V (50 - 60 Hz)                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Power Redundancy           | Optional                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Environmental Standards    | ENERGY STAR Qualified                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Dimensions (WxDxH)         | 44.5 cm x 44.5 cm x 4.4 cm                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Weight                     | 7.59 kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| System Requirements        | Cisco IOS Universal                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Manufacturer Warranty      | Limited lifetime warranty                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

Extended Specification

General

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Device Type                | Switch - 48 ports - L3 - Managed - stackable                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Enclosure Type             | Rack-mountable 1U                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Subtype                    | Gigabit Ethernet                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Ports                      | 48 x 10/100/1000 (PoE+)                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Power Over Ethernet (PoE)  | PoE+                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| PoE Budget                 | 437 W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Performance                | Switching capacity: 128 Gbps   Stacking bandwidth: 480 Gbps   Forwarding rate: 190.48 Mpps                                                                                                                                                                                                                                                                                                                                                                                            |
| Capacity                   | IPv4 routing table entries: 32000   IPv6 routing table entries: 16000   Flexible NetFlow entries: 64000   VLAN IDs: 4000   Switched virtual interfaces (SVIs): 2000                                                                                                                                                                                                                                                                                                                   |
| MAC Address Table Size     | 32000 entries                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Jumbo Frame Support        | 9198 bytes                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Routing Protocol           | OSPF, IS-IS, RIP-1, RIP-2, BGP, EIGRP, HSRP, IGMP, VRRP, PIM-SM, OSPFv3, PIM-SSM, MSDP, policy-based routing (PBR), RIPng                                                                                                                                                                                                                                                                                                                                                             |
| 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, SSO, CBWFQ, WRED, STP support, ACL support, QoS, NSR, RSPAN, MIB, Cisco StackWise-480 technology, Cisco StackPower technology, FNF, MSDP, 802.1x authentication, 16MB packet buffer, FTP client, MACsec support, 3 fans, CoPP, VXLAN, AVC, SSM, integrated Wireshark, VLAN Double Tagging (Q-in-Q), EoMPLS, H-VPLS, Private VLAN, L3VPN support, ERSPAN, SGT caching, SGACL, ITSM integration, third-party IPAM integration |
| 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                        | 8 GB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Flash Memory               | 16 GB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

|                   |        |
|-------------------|--------|
| Status Indicators | Status |
|-------------------|--------|

Expansion / Connectivity

|                 |                                          |
|-----------------|------------------------------------------|
| Interfaces      | 48 x 1000Base-T RJ-45 PoE+   1 x USB 2.0 |
| Expansion Slots | 1 (total) / 1 (free) x Expansion Slot    |

Manufacturer Warranty

|                   |                                                                                                                            |
|-------------------|----------------------------------------------------------------------------------------------------------------------------|
| Service & Support | Limited warranty - replacement - lifetime - response time: next business day  <br>Technical support - consulting - 90 days |
|-------------------|----------------------------------------------------------------------------------------------------------------------------|

Miscellaneous

|                     |                                                                                                                                                                                                                                                                                                                                                                                                   |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MTBF                | 277,770 hours                                                                                                                                                                                                                                                                                                                                                                                     |
| 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 |

Power

|                       |                                  |
|-----------------------|----------------------------------|
| Power Device          | Internal power supply - hot-plug |
| Installed Qty         | 1                                |
| Max Supported Qty     | 2                                |
| Power Redundancy      | Optional                         |
| Power Provided        | 715 Watt                         |
| Voltage Required      | AC 120/230 V (50 - 60 Hz)        |
| ENERGY STAR Certified | Yes                              |

Software / System Requirements

|             |                     |
|-------------|---------------------|
| OS Required | Cisco IOS Universal |
|-------------|---------------------|

Environmental Parameters

|                           |                          |
|---------------------------|--------------------------|
| Min Operating Temperature | -5 °C                    |
| Max Operating Temperature | 45 °C                    |
| Humidity Range Operating  | 5 - 90% (non-condensing) |
| Min Storage Temperature   | -40 °C                   |
| Max Storage Temperature   | 70 °C                    |
| Humidity Range Storage    | 5 - 90% (non-condensing) |

Dimensions & Weight

|        |         |
|--------|---------|
| Width  | 44.5 cm |
| Depth  | 44.5 cm |
| Height | 4.4 cm  |
| Weight | 7.59 kg |

What's in the box

Switch with default primary power supply, AC power cord, rack-mount kit