

Cisco
C9300L-48PF-4G-10A
Datasheet



Product Overview

- Cisco's Catalyst 9300 Series sets the standard for stackable enterprise access switches, driving high performance and advanced connectivity.
- Designed for distributed workforces, these switches serve enterprise campuses, branch offices, and organizations with hybrid work and heavy IoT.
- With 48 Full PoE+ Gigabit ports and four 1G uplinks, the C9300L-48PF-4G-10A delivers up to 320 Gbps stacking bandwidth and a robust 8 GB DRAM.
- Enhanced stacking technology, mixed stacking compatibility, and flexible modular uplinks set Catalyst 9300L apart in high-density scenarios.
- Cloud-managed options, seamless integration with Cisco DNA and Meraki, and straightforward unified policies deliver agile network control.
- For integrators and end-users, the C9300L-48PF-4G-10A provides secure, scalable, and easy-to-operate networking, ready for evolving digital needs.

Product Highlights

- **High Power PoE+ Support:** 48 Full PoE+ ports provide up to 30W per port, ideal for powering endpoints like access points and cameras.
- **Advanced Stacking Capability:** StackWise-320 enables up to 320 Gbps of stacking bandwidth for seamless scalability and redundancy.
- **Flexible Uplink Options:** Equipped with 4×1G uplinks to meet diverse network topologies and deployment requirements.
- **Unified Cloud Management:** Integration with Meraki and Cisco DNA offers simple, centralized monitoring and streamlined operations.

Detailed Features



C9300L-48PF-4G-10A

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Component	Specification
Downlink Ports	48 × 10/100/1000 Mbps PoE+
Uplink Ports	4 × 1G SFP
Stacking Bandwidth	320 Gbps
DRAM	8 GB
Switching Capacity	56 Gbps - 176 Gbps



High-Density Full PoE+ Ports

The C9300L-48PF-4G-10A features 48 Gigabit downlink ports with full IEEE 802.3at PoE+ support, providing scalable, reliable power for a range of connected devices, such as APs, VoIP phones, and IoT endpoints, without needing separate power supplies.

StackWise-320 Robustness

The switch supports Cisco StackWise-320 stacking technology, offering up to 320 Gbps of stack bandwidth. This creates a unified, highly available system with multi-chassis redundancy, simplified management, and effortless expansion for growing networks.

Flexible Uplink Architecture

Four dedicated 1G SFP uplinks facilitate flexible network design, supporting high-speed connections to aggregation or core switches. Uplink modularity allows adaptation to diverse topologies and enables straightforward bandwidth upgrades.

Comprehensive Network Scale

Enterprise-grade scalability is enabled by a 32,000 MAC address table, support for up to 4094 VLANs, 16 GB Flash, and processing of 64,000 NetFlow entries. Such capacity addresses the needs of large access or campus networks.

Advanced Routing Capabilities

Support for up to 32,000 IPv4 and 16,000 IPv6 routes empowers advanced L3 deployment. Multiple static and dynamic routing protocols enable segmentation, policy-based routing, and multi-site integration.

Unified Management Flexibility

Manage locally, virtually, or via the cloud using Cisco DNA Center or Meraki dashboard. This reduces configuration complexity and accelerates troubleshooting and network-wide orchestration.

Resilient Security Features

Integrated hardware-based MACsec and secure tunnels with IPsec (AES-256), plus ACLs and segmentation, provide layered security to safeguard sensitive business data from edge to cloud.

Future-Proofed Investment

Backward compatibility for StackPower, fans, and module options protects infrastructure investments, ensures operational continuity, and allows for phased network upgrades with minimal disruption.

Technical Specifications

Product Specifications

Feature	Value
Supported IOS	Network Advantage, Network Essentials
Network modules options	Fixed Modules
Stack Technology	StackWise-320
Stacking bandwidth	320 Gbps
Total number of MAC addresses	32,000
Total number of IPv4 routes	32,000 (24,000 direct routes and 8000 indirect routes)
IPv6 routing entries	16,000
Multicast routing scale	8,000
QoS scale entries	5,120
ACL scale entries	5,120
Packet buffer per SKU	16 MB buffer for 24 and 48 port Gigabit Ethernet models
Flexible NetFlow (FNF) entries	64,000 flow on 24- and 48-port Gigabit Ethernet models



Feature	Value
DRAM	8 GB
Flash	16 GB
VLAN IDs	4094
Total Switched Virtual Interfaces (SVIs)	1000
Jumbo frames	9198 bytes
Switching capacity	56 Gbps - 176 Gbps
Forwarding rate	41.66 Mpps - 130.95 Mpps

Product Comparison

Feature	C9300L-48PF-4G-10A	C9300L-48UXG4X-10E	C9300L-48UXG-4X-E
Downlink Ports	48 × 1G PoE+	48 × 1G/2.5G/5G/10G	48 × 1G/2.5G/5G/10G
Uplink Ports	4 × 1G SFP	4 × 10G SFP+	4 × 10G SFP+
PoE Power Budget	Full PoE+ (IEEE 802.3at)	UPOE/PoE+	UPOE/PoE+
Stacking Bandwidth	320 Gbps	320 Gbps	320 Gbps
Switching Capacity	56 Gbps - 176 Gbps	208 Gbps	176 Gbps
Total MAC Addresses	32,000	32,000	32,000
Management	Cisco DNA/Meraki/CLI	Cisco DNA/Meraki/CLI	Cisco DNA/Meraki/CLI
Deployment Focus	High-density PoE access	Multigigabit access	Flexible Multigigabit access

Accessories

Category	Accessories
Included Accessories	<ul style="list-style-type: none"> - Power Adapter - Rack Mount Kit - Console Cable
Optional Accessories	<ul style="list-style-type: none"> - SFP Transceiver - Redundant Power Supply - StackWise-320 Cable



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References

[1] Cisco. (2023). Cisco Catalyst 9300 Series Switches Datasheet. Retrieved from <https://www.cisco.com/c/en/us/products/collateral/switches/catalyst-9300-series-switches/nb-06-cat9300-ser-data-sheet-cte-en.html>