



Cisco Catalyst C9300L-48U-4X-A

Catalyst 9300L 48-Port UPOE, 4x 10G Fixed Uplinks, Network Advantage Data Sheet

Product Overview: The Cisco Catalyst C9300L-48U-4X-A is an enterprise-class Layer 3 access switch equipped with 48 Cisco UPOE ports (up to 60W per port) and 4 fixed 10G SFP+ uplinks. Coming with the premium **Network Advantage** license, it includes advanced L3 features like BGP, EIGRP, ISIS, BFD, and full Flexible NetFlow.

48 Ports 1G UPOE ETHERNET	4x 10G SFP+ FIXED UPLINKS	Advantage FULL L3 LICENSE	320 Gbps STACKWISE STACKING
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1. SYSTEM ARCHITECTURE & KEY FEATURES

The Cisco Catalyst 9300L Series switches are Cisco's lead fixed-uplink stackable enterprise access platform. Driven by Cisco's UADP ASIC architecture and running Cisco IOS XE, the Network Advantage variant provides complete core-to-edge switching capabilities.

- **Full Layer 3 Capabilities:** Includes advanced dynamic routing protocols (BGP, EIGRP, IS-IS, OSPF) and VRF-Lite.
- **High-Density Cisco UPOE (60W):** Supplies up to 60W per port for demanding endpoints like Wi-Fi 6E/7 APs, IP cameras, and smart lighting.
- **StackWise-320 Stacking:** Stack up to 8 switches together for combined throughput of up to 320 Gbps with zero-touch redundancy.
- **Advanced Network Visibility:** Support for Full Flexible NetFlow (FNF), ERSPAN, and advanced telemetry for complete traffic monitoring.
- **Integrated Security:** Supports MACsec-128 encryption, Cisco TrustSec, Dynamic ARP Inspection, DHCP Snooping, and IP Source Guard.

2. TECHNICAL SPECIFICATIONS

FEATURE / PARAMETER	SPECIFICATION DETAILS
Product Model	Cisco Catalyst C9300L-48U-4X-A
Downlink Interfaces	48 x 10/100/1000 Mbps RJ-45 Cisco UPOE (Up to 60W per port)
Uplink Interfaces	4 x 10G/1G SFP+ Fixed Uplinks
Software License	Cisco Network Advantage (Full Layer 3 & Core Routing)
Switching Capacity	176 Gbps (Standalone) / Up to 496 Gbps (With StackWise-320)
Forwarding Rate	130.95 Mpps (Standalone) / 369.05 Mpps (Stacked)
Processor / CPU	x86 Multicore CPU Complex
DRAM / Flash Memory	8 GB DRAM / 16 GB Flash
MAC Address Table	32,000 entries
IPv4 Routing Scale	32,000 entries
IPv6 Routing Scale	16,000 entries

FEATURE / PARAMETER	SPECIFICATION DETAILS
VLAN IDs & SVIs	4,094 VLAN IDs / 1,000 Switched Virtual Interfaces (SVIs)
Jumbo Frame Support	Up to 9,198 bytes

3. POWER, POE & RESILIENCY

POWER PARAMETER	SPECIFICATION
PoE Standards	IEEE 802.3af (PoE), IEEE 802.3at (PoE+), Cisco UPOE (60W)
Default Power Supply	1100W AC Power Supply (PWR-C1-1100WAC-P)
Available PoE Budget	822W (with single 1100W AC) / Up to 1440W (with secondary PS)
Redundant Power	Supported (Dual field-replaceable hot-swappable slots)
Cooling System	3 Hot-swappable redundant fan modules

4. ADVANCED LICENSE CAPABILITIES (NETWORK ADVANTAGE)

Enterprise Routing Protocols

- BGP (Border Gateway Protocol)
- EIGRP & IS-IS Full Routing
- OSPF (Unrestricted full routing tables)
- BFD (Bidirectional Forwarding Detection)
- VRF-Lite (Virtual Routing and Forwarding)

Management, Automation & Telemetry

- Full Flexible NetFlow (FNF) for deep traffic inspection
- Cisco DNA Center Advanced Automation & Analytics
- Telemetry streaming & Model-Driven Programmability
- GPOI, Python, RESTCONF, and NETCONF support

5. PHYSICAL & ENVIRONMENTAL SPECIFICATIONS

PARAMETER	VALUE
Form Factor	1RU Rack-Mountable (19-inch standard rack)
Dimensions (H x W x D)	1.73 in x 17.5 in x 17.7 in (4.4 cm x 44.5 cm x 44.9 cm)
Unit Weight	Approx. 15.4 lbs (7.0 kg)
Operating Temperature	-5°C to 45°C (23°F to 113°F)
MTBF (Hours)	309,020 Hours

6. ORDERING INFORMATION & ACCESSORIES

PART NUMBER	DESCRIPTION
C9300L-48U-4X-A	Catalyst 9300L 48-port UPOE, 4x 10G Uplinks, Network Advantage
PWR-C1-1100WAC-P	1100W AC Platinum Power Supply Module
C9300L-STACK-KIT	StackWise-320 Stacking Kit for C9300L Series
STACK-T3-1M	1 Meter StackWise-320 Stacking Cable