C9300L-48P-4X-A DataSheet

C9300L-48P-4X-A: 48 PoE+ ports, 4×10 Gbps SFP+ uplinks, Network Advantage license, 320 Gbps stacking; ideal for secure, scalable enterprise access. (≤160 chars)

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C9300L-48P-4X-A Description

The Cisco Catalyst 9300L-48P-4X-A is engineered for enterprise access deployments requiring high-density PoE+ power and robust Layer 3 capabilities. It furnishes 48 Gigabit PoE+ (IEEE 802.3at) downlink ports (30 W per port) powered by a default 715 W AC power supply (505 W PoE budget). Four fixed 10 Gbps SFP+ uplinks deliver high-speed connectivity to distribution or core layers. Running Cisco IOS XE with the Network Advantage license, it supports full Layer 3 routing protocols (OSPF, EIGRP, BGP), MPLS, VRF-Lite, and enhanced multicast. StackWise-320 technology provides up to 320 Gbps of stacking bandwidth across eight switches, enabling a single logical system. Security features include MACsec encryption, 802.1X authentication, TrustSec, DHCP snooping, and Dynamic ARP Inspection. Management can be carried out via on-box CLI or WebUI, as well as Cisco DNA Center for centralized policy, automation, and assurance.

Product Highlights

Ethernet Ports

Switching Capacity

Forwarding Rate

Quick Spec

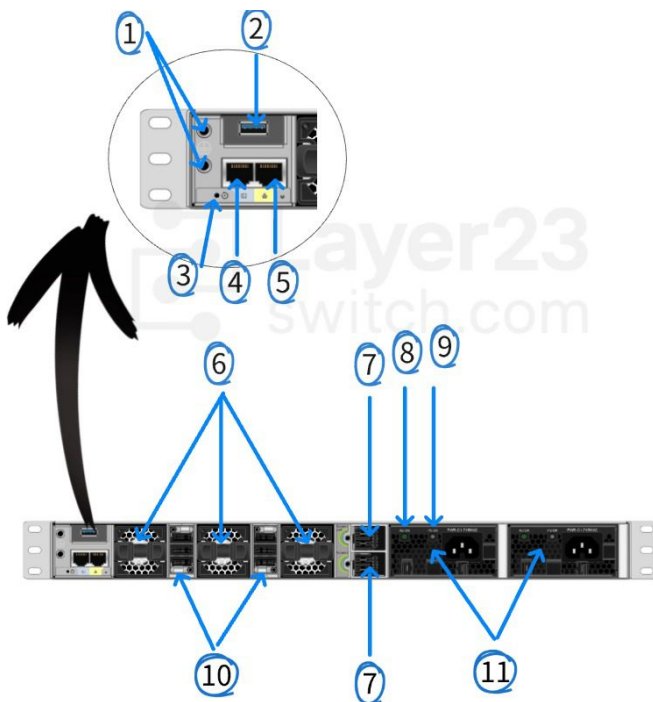| Field	Description
C9300L	Cisco Catalyst 9300 fixed-uplink (non-modular) series
48P	48 PoE+ ports (each up to 30 W)
4X	4 fixed 10 Gbps/1 Gbps SFP+ uplink ports
A	Network Advantage license (advanced Layer 3 feature set)

Key Features

Product Comparison

Feature	C9300L-48P-4X-A	C9300L-48P-4X-E	C9300L-48P-4G-A
License	Network Advantage	Network Essentials	Network Advantage
Switching Capacity	176 Gbps (496 Gbps stack)	176 Gbps (496 Gbps stack)	104 Gbps (424 Gbps stack)
Forwarding Rate	130.95 Mpps (369.05 Mpps stk)	130.95 Mpps (369.05 Mpps stk)	77.38 Mpps (315.48 Mpps stk)
Downlink Ports	48 × PoE+ (30 W each)	48 × PoE+ (30 W each)	48 × PoE+ (30 W each)
Uplink Ports	4 × 10 Gbps SFP+	4 × 10 Gbps SFP+	4 × 1 Gbps SFP
PoE Budget (Default)	505 W	505 W	505 W
Stacking Bandwidth	320 Gbps	320 Gbps	320 Gbps
Default PSU	715 W AC	715 W AC	715 W AC

C9300L-48P-4X-A Switch Rear Panel

The switch rear panel includes StackWise connectors, StackPower or XPS connectors, ports, fan modules, and power supply modules.
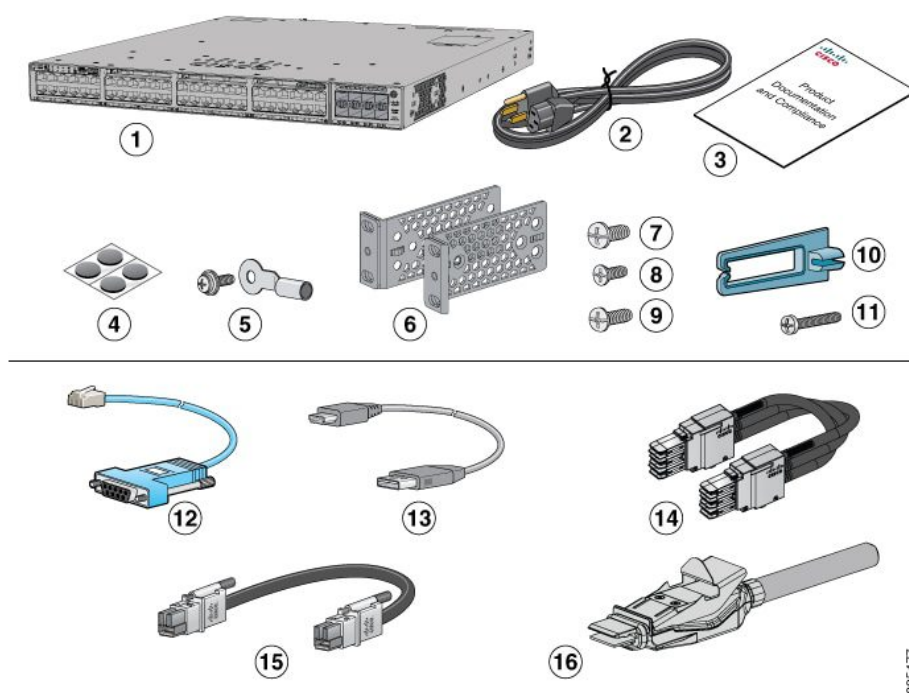
1	Ground connectors	7	StackPower connectors
2	USB3.0–SSD port	8	AC OK (input) status LED
3	BEACON LED	9	PS OK (output) status LED
4	CONSOLE (RJ-45 console port)	10	StackWise-480 port connectors
5	MGMT (RJ-45 10/100/1000 management port)	11	Power supply modules
6	Fan modules	–	–

Components Delivered in the Shipping Box

The shipping box contains the model of the switch you ordered and other components needed for installation. Some components are optional, depending on your order.

1	Cisco Catalyst 9300 Series switch with optional network module[1] (power supply and fan modules not shown)	9	Eight number-8 Phillips flat-head screws
2	AC power cord	10	Cable guide
3	Product documentation and compliance document	11	M4.0 x 20mm Phillips pan-head screw
4	Four rubber mounting feet	12	(Optional) RJ-45 console cable
5	Ground lug screw and ring terminal	13	(Optional) USB console cable
6	Two 19-inch mounting brackets	14	(Optional) StackWise-480/1T cable (0.5-meter, 1-meter, or 3-meter)
7	Four number-12 pan-head screws	15	(Optional) StackPower cable (0.3-meter or 1.5-meter)
8	Four number-10 pan-head screws	16	(Optional) StackWise-320 cable

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Specification

Parameter	Specification
Model	C9300L-48P-4X-A
Chassis	1RU fixed form factor
CPU	Quad-core x86, 2.4 GHz
DRAM	8 GB
Flash Memory	16 GB
Switching Capacity	176 Gbps standalone; 496 Gbps with StackWise-320
Forwarding Rate	130.95 Mpps standalone; 369.05 Mpps (stacked)
MAC Addresses	32 000
IPv4 Routes	32 000 (24 000 direct + 8 000 indirect)
IPv6 Routes	16 000
Multicast Routing Scale	8 000 entries
ACL Scale	5 120 entries
QoS Scale	5 120 entries
Packet Buffer	16 MB
VLAN IDs	4 094
SVIs	1 000
Downlink Ports	48 × 1 Gbps RJ-45 PoE+ (up to 30 W/port)
Uplink Ports	4 × 10 Gbps/1 Gbps SFP+ (fixed)
PoE Budget (Default)	505 W (with PWR-C1-715WAC-P)
PoE Upgrade Budget	855 W (with secondary 715 W PSU); 1220 W (with 1100 W PSU)
Stacking Bandwidth	320 Gbps (StackWise-320)
StackPower (Aggregate)	Up to 3200 W across eight units
Primary Power Supply	PWR-C1-715WAC-P (default)
Fans	3 × field-replaceable (N+1 redundant)
Operating Temperature	–5 °C to +45 °C
Dimensions (H×W×D)	4.4 × 44.5 × 40.9 cm (chassis only); 44.9 cm w/ PSU; 48.8 cm max
Weight	15.46 lb (7.03 kg) w/ default PSU
MTBF	309 020 hrs

Parameter	Specification
Software	Cisco IOS XE 16.11.1b or later (Network Advantage)
Security	MACsec-128, 802.1X, TrustSec, DHCP Snooping, Dynamic ARP Inspection
Stack Modules	C9300L-STACK-KIT
Management	CLI, WebUI, Cisco DNA Center
IPv6 Support	Wire-rate hardware forwarding (16 000 routes)
Energy Efficiency	IEEE 802.3az EEE; per-port power limits
FNF Scale	64 000 flows (48-port Gigabit)
Jumbo Frames	9 198 bytes
PVST Instances	300

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