



C9300L-48UXG-2Q-A DataSheet

Cisco C9300L-48UXG-2Q-A: 48 UPOE multi-gig ports (12 mGig + 36 1 G), 2 × 40 Gbps QSFP uplinks, 675 W PoE, 320 Gbps stacking, IOS XE Advantage—perfect for PoE-heavy, high-density enterprise edge. (≤160 chars)

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C9300L-48UXG-2Q-A Description

The Cisco C9300L-48UXG-2Q-A delivers twelve multi-gig UPOE ports (10 G/5 G/2.5 G/1 G/100 M) plus thirty-six 1 G/100 M/10 M UPOE copper ports, all powered by a built-in 1100 W AC supply providing a default 675 W PoE budget. Two fixed 40 Gbps QSFP uplinks enable ultra-high-speed aggregation to distribution or core layers. Running Cisco IOS XE with the Network Advantage license, it supports wire-speed Layer 2 switching, full Layer 3 routing (OSPF, EIGRP, BGP, VRF-Lite, MPLS, PIM-SM multicast), hardware-based ACLs, and advanced QoS. StackWise-320 technology supplies up to 320 Gbps of stacking bandwidth across up to eight switches, presenting the stack as a single logical device for simplified management. Built-in security features include MACsec-128, 802.1X authentication, DHCP Snooping, Dynamic ARP Inspection, and TrustSec, enforcing access control and mitigating Layer 2 threats. Ideal for PoE-heavy campus and branch deployments—such as IP surveillance, Wi-Fi 6 AP aggregation, and IoT edge—this model balances multi-gig UPOE power, advanced routing, and resilient stacking.

Quick Specs

Field	Description
C9300L	Cisco Catalyst 9300 fixed-uplink (non-modular) series
48UXG	48 × UPOE ports: 12 × mGig (10 G/5 G/2.5 G/1 G/100 M) + 36 × 1 G/100 M/10 M copper, all UPOE-enabled
2Q	2 × 40 Gbps QSFP fixed uplink ports

A	Network Advantage license (advanced Layer 3: OSPF, EIGRP, BGP, VRF-Lite, MPLS, PIM multicast)
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Key Features

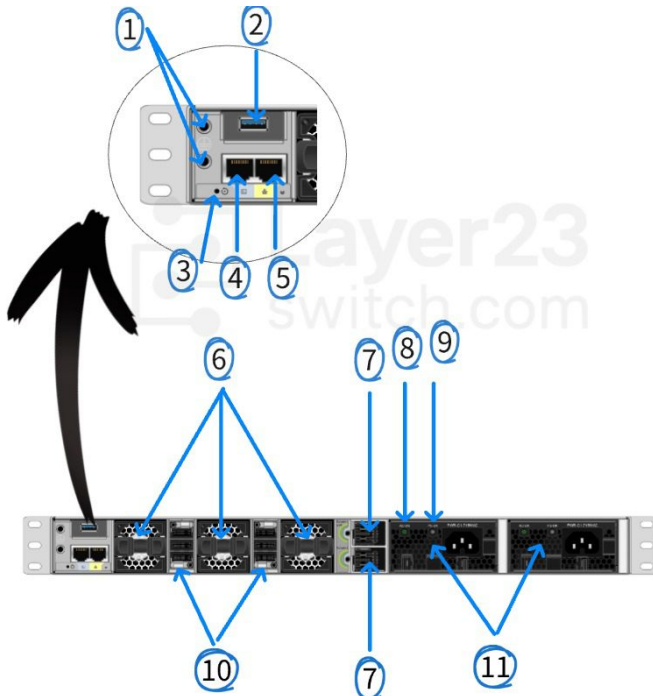
Product Comparison

Feature	C9300L-48UXG-2Q-A	C9300L-48UXG-2Q-E	C9300L-48UXG-4X-A
License	Network Advantage	Network Essentials	Network Advantage
Switching Capacity	472 Gbps (792 Gbps stack)	472 Gbps (792 Gbps stack)	392 Gbps (712 Gbps stack)
Forwarding Rate	351.19 Mpps (589.28 Mpps stk)	351.19 Mpps (589.28 Mpps stk)	291.66 Mpps (529.76 Mpps stk)
Downlink Ports	12 mGig + 36 1 G UPOE	12 mGig + 36 1 G UPOE	12 mGig + 36 1 G UPOE
Uplink Ports	2 × 40 Gbps QSFP	2 × 40 Gbps QSFP	4 × 10 Gbps/1 Gbps SFP+
Default PoE Budget	675 W	675 W	675 W
Stacking Bandwidth	320 Gbps	320 Gbps	320 Gbps
Primary PSU	1100 W AC	1100 W AC	1100 W AC

C9300L-48UXG-2Q-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	-	-

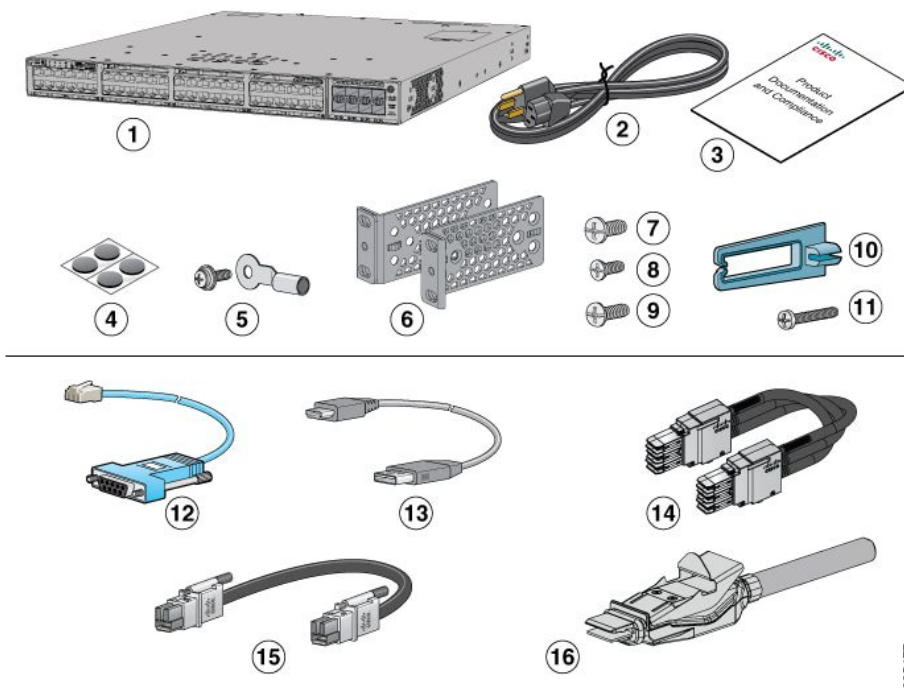


Components Delivered in the Shipping Box

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



Specification

Parameter	Specification
Model	C9300L-48UXG-2Q-A
Chassis	1 RU fixed-uplink, all-metal construction
CPU	Quad-core x86, 2.4 GHz

Parameter	Specification
DRAM	8 GB
Flash Memory	16 GB
Switching Capacity	472 Gbps standalone; 792 Gbps with StackWise-320
Forwarding Rate	351.19 Mpps standalone; 589.28 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 (multi-gig + 1 G models)
VLAN IDs	4 094
SVIs	1 000
Downlink Ports	12 × mGig UPOE (10 G/5 G/2.5 G/1 G/100 M) + 36 × 1 G/100 M/10 M RJ-45 (all UPOE)
Uplink Ports	2 × 40 Gbps QSFP (fixed)
PoE Budget (Default)	675 W (with PWR-C1-1100WAC-P)
PoE Upgrade Budget	1 025 W (with secondary 1 100 W AC PSU); 1 390 W (with secondary 715 W DC); 1 775 W (with 1 000 W AC)
Stacking Bandwidth	320 Gbps (StackWise-320)
StackPower (Aggregate)	Not supported on C9300L SKUs
Primary Power Supply	PWR-C1-1100WAC-P (1 100 W AC)
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 (w/ PSU)	16.86 lb (7.65 kg)
MTBF	275 010 hrs
Software	Cisco IOS XE 16.11.1b or later (Network Advantage)
Security	MACsec-128, 802.1X, DHCP Snooping, Dynamic ARP Inspection, TrustSec
Management	CLI, WebUI, Cisco DNA Center

Parameter	Specification
IPv6 Support	Wire-rate hardware forwarding (16 000 routes)
Energy Efficiency	IEEE 802.3az EEE; per-port power limits
Flexible NetFlow Scale	64 000 flows (multi-gig + 1 G models)
Jumbo Frames	9 198 bytes
PVST Instances	300

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