



C9300L-48UXG-2Q-E DataSheet

C9300L-48UXG-2Q-E: 48 UPOE multi-gig ports (12 mGig + 36 1 G), 2×40 Gbps QSFP uplinks, 675 W PoE, 320 Gbps stacking, IOS XE Essentials – ideal for PoE-heavy enterprise edge. (≤160 chars)



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C9300L-48UXG-2Q-E Description

The Cisco Catalyst 9300L-48UXG-2Q-E delivers 48 multigigabit UPOE ports—12 ports supporting 10 G/5 G/2.5 G/1 G/100 M and 36 ports supporting 1 G/100 M/10 M—powered by an integrated 1 100 W AC supply that provides a default 675 W PoE budget. Two fixed 40 Gbps QSFP uplinks enable high-speed aggregation to distribution or core. Cisco IOS XE with the Network Essentials license supports wire-speed Layer 2 switching, static/RIP routing, hardware ACLs, and basic QoS. StackWise-320 yields up to 320 Gbps of stacking bandwidth across up to eight switches, presenting the entire stack as a single logical switch. Built-in security features include 802.1X authentication, DHCP Snooping, Dynamic ARP Inspection, and TrustSec. Ideal for PoE-heavy campus and branch deployments—such as IP surveillance, Wi-Fi 6 AP aggregation, and IoT edge—this switch balances multi-gig UPOE power, robust performance, and simplified stacking management.

Quick Specs

Parameter	Specification
Model	C9300L-48UXG-2Q-E
Switching Capacity	472 Gbps standalone; 792 Gbps (8-member StackWise-320)
Forwarding Rate	351.19 Mpps standalone; 589.28 Mpps (stacked)
Downlink Ports	12 × multi-gig UPOE (10 G/5 G/2.5 G/1 G/100 M) + 36 × 1 G/100 M/10 M RJ-45 UPOE

Uplink Ports	2 × 40 Gbps QSFP fixed
Stacking Bandwidth	320 Gbps (StackWise-320)
PoE Budget (Default)	675 W (with PWR-C1-1100WAC-P)
Memory / Flash	8 GB DRAM; 16 GB flash
MTBF	275,010 hrs
Dimensions (H×W×D)	4.4 × 44.5 × 40.9 cm (chassis only); 44.9 cm w/ PSU; 48.8 cm max
Weight (with PSU)	16.86 lb (7.65 kg)
License	Network Essentials

Key Features

Product Comparison

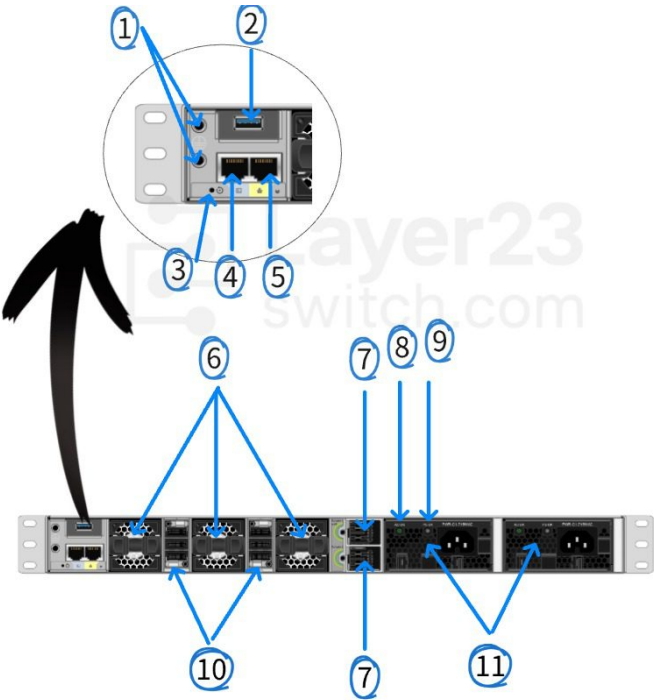
Feature	C9300L-48UXG-2Q-E	C9300L-48UXG-4X-E	C9300L-48P-4X-E
License	Network Essentials	Network Essentials	Network Essentials
Switching Capacity	472 Gbps (792 Gbps stack)	392 Gbps (712 Gbps stack)	176 Gbps (496 Gbps stack)
Forwarding Rate	351.19 Mpps (589.28 Mpps stk)	291.66 Mpps (529.76 Mpps stk)	130.95 Mpps (369.05 Mpps stk)
Downlink Ports	12 mGig + 36 1 G UPOE	12 mGig + 36 1 G UPOE	48 × 1 G PoE+
Uplink Ports	2 × 40 Gbps QSFP	4 × 10 Gbps/1 G SFP+	4 × 10 Gbps/1 G SFP+
Default PoE Budget	675 W	675 W	505 W
Stacking Bandwidth	320 Gbps	320 Gbps	320 Gbps

Primary PSU	1 100 W AC	1 100 W AC	715 W AC
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C9300L-48UXG-2Q-E Switch Rear Panel

The switch rear panel includes StackWise connectors, StackPower or XPS connectors, ports, fan modules, and power supply modules.

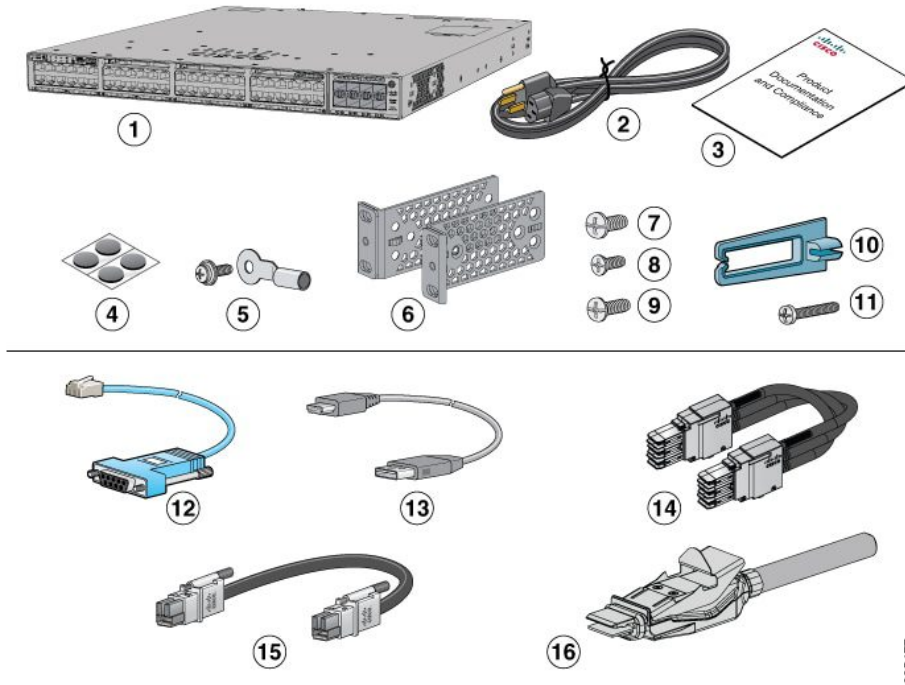
1	Ground connectors	7	StackPower connectors
2	USB3.0-SSD port	8	AC OK (input) status LED
3	BEACON LED	9	PS OK (output) status LED
4	CONSOLE (RJ-45 console port)	10	StackWise-480 port connectors
5	MGMT (RJ-45 10/100/1000 management port)	11	Power supply modules
6	Fan modules	-	-



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-48UXG-2Q-E
Chassis	1 RU fixed-uplink, all-metal construction
CPU	Quad-core x86, 2.4 GHz
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

Parameter	Specification
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 Essentials)
Security	802.1X, DHCP Snooping, Dynamic ARP Inspection, TrustSec
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
Flexible NetFlow Scale	64 000 flows (multi-gig + 1 G models)
Jumbo Frames	9 198 bytes
PVST Instances	300

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