



C9300L-24UXG-2Q-A DataSheet

Cisco C9300L-24UXG-2Q-A—24 × (8 mGig + 16 1 G) UPOE, 2 × 40 G QSFP uplinks, 128 Gbps fabric, StackWise-320, Network Advantage for secure, high-density access.

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C9300L-24UXG-2Q-A Description

C9300L-24UXG-2Q-A delivers eight Multigigabit (100 M/1 G/2.5 G/5 G/10 G) UPOE ports plus sixteen 1 G UPOE ports over a 128 Gbps non-blocking switching fabric. Two built-in 40 Gb QSFP uplinks simplify high-speed aggregation without extra modules. StackWise-320 enables up to eight switches in a single logical stack (320 Gbps per unit, 448 Gbps end-to-end) with sub-50 ms fail-over. Network Advantage unlocks full Layer 3 routing, SD-Access micro-segmentation, Encrypted Traffic Analytics, and open APIs. A single 1100 W AC PSU provides system power and a 722 W PoE budget; add a second PSU for redundancy. With 8 GB DRAM, 16 GB flash, and an optional USB 3.0 SSD slot for on-box container apps, it supports advanced telemetry and security features.

Quick Specs

C9300L-24UXG-2Q-A	Specification
Switching capacity	128 Gbps non-blocking; 448 Gbps (stacked)
Forwarding rate	95.23 Mpps; 333.33 Mpps (stacked)
Packet buffer size	16 MB shared buffer
Downlink ports	8 × mGig (100 M/1 G/2.5 G/5 G/10 G) + 16 × 1 G, all UPOE (60 W/port)
Uplink ports	2 × 40 Gb QSFP fixed uplinks
Default PSU / PoE budget	1100 W AC; 722 W available for PoE

Stacking	StackWise-320: 320 Gbps/switch; up to 8 members; < 50 ms fail-over
DRAM / Flash	8 GB / 16 GB
Software license	Network Advantage (-A)

Key Features

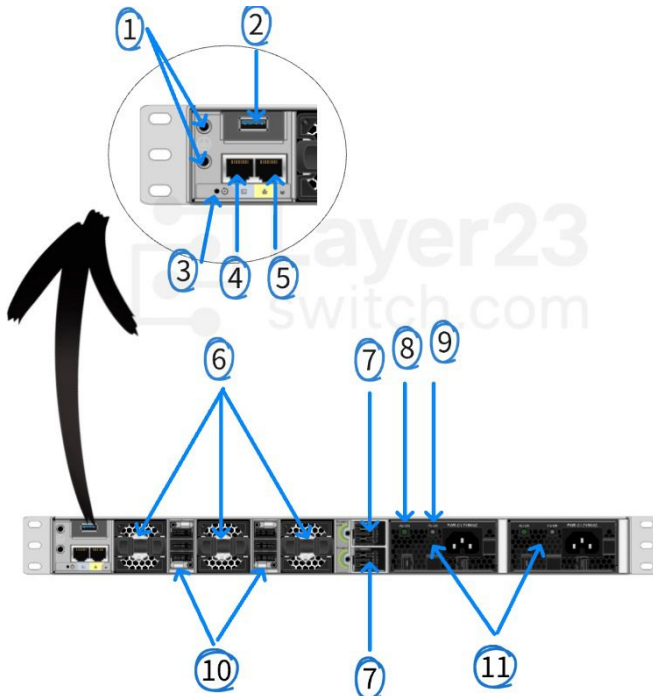
Product Comparison

Parameter	C9300L-24UXG-2Q-A	C9300L-24UXG-4X-A	C9300L-24P-4X-A
Switching capacity	128 Gbps (448 Gbps stacked)	128 Gbps (448 Gbps stacked)	128 Gbps (448 Gbps stacked)
Forwarding rate	95.23 Mpps (333.33 Mpps stacked)	95.23 Mpps (333.33 Mpps stacked)	95.23 Mpps (333.33 Mpps stacked)
Downlink interfaces	8 × mGig + 16 × 1 G UPOE (60 W/port)	8 × mGig + 16 × 1 G UPOE (60 W/port)	24 × 1 G PoE+ (30 W/port)
Uplink ports	2 × 40 Gb QSFP	4 × 10 Gb/1 Gb SFP+	4 × 10 Gb/1 Gb SFP+
Packet buffer size	16 MB	16 MB	16 MB
Default PSU / PoE budget	1100 W AC; 722 W PoE	1100 W AC; 880 W PoE	715 W AC; 445 W PoE
Software license	Network Advantage (-A)	Network Advantage (-A)	Network Advantage (-A)

C9300L-24UXG-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	-	-

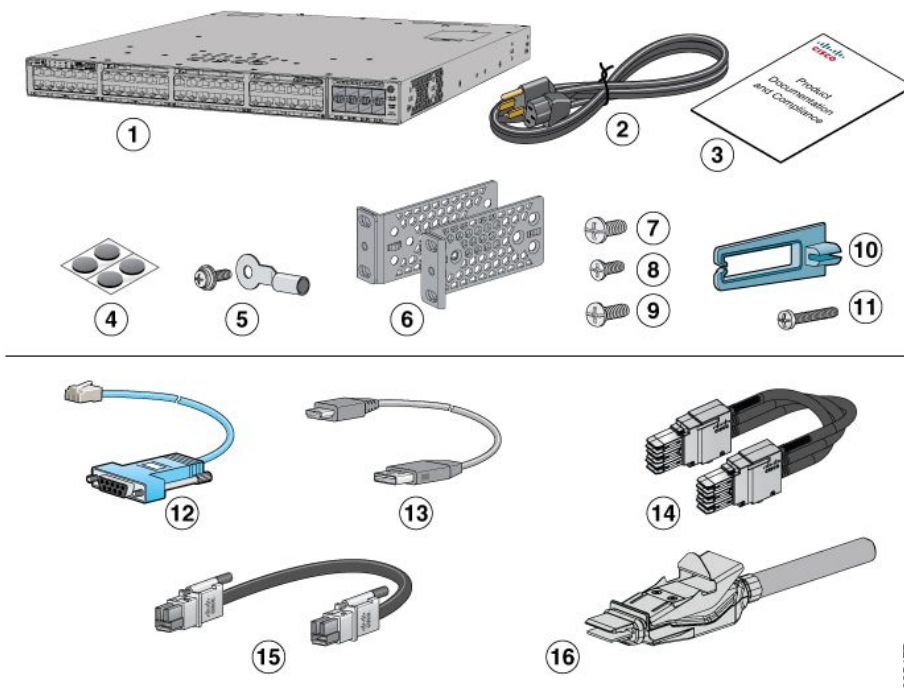


Components Delivered in the Shipping Box

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

Cisco Catalyst C9300L-24UXG-2Q-A Detailed Specifications

Model SKU	C9300L-24UXG-2Q-A
Software Image	Network Advantage (-A)
Switching Capacity	128 Gbps (non-blocking)

Cisco Catalyst C9300L-24UXG-2Q-A Detailed Specifications

Forwarding Rate	95.23 Mpps (64-byte IPv4)
Stacking Bandwidth	320 Gbps per switch; 448 Gbps end-to-end
Max Stack Members	8
Downlink Interfaces	8 × RJ-45 mGig (100 M/1 G/2.5 G/5 G/10 G) + 16 × RJ-45 1 G, Cisco UPOE (IEEE 802.3bt, 60 W per port)
Uplink Interfaces	2 × QSFP+ 40 Gb (fixed)
Packet Buffer	16 MB shared buffer
DRAM / Flash	8 GB / 16 GB
MAC Address Table	32,000 entries
IPv4 Routes (total)	16,000
IPv6 Routes (total)	16,000
ACL Entries	5,120 hardware ACLs
QoS Entries	5,120
Packet Buffer	16 MB
DRAM / Flash	8 GB / 16 GB
External SSD	Optional USB 3.0 SSD slot (up to 240 GB)
Fans	3 × field-replaceable, N+1 redundant
Default PSU	1100 W AC (platinum)
Max PoE Budget	722 W (with default PSU)
Power-over-Ethernet	Cisco UPOE, IEEE 802.3bt type 4, 60 W per port
MACsec Encryption	AES-256
Secure Boot	Yes
Trust Anchor SUDI	Yes
App Hosting	Container support (ThousandEyes, ASA-C)
SD-Access	Group-based policy, on-box automation, fabric segmentation
Dimensions (H × W × D)	1.73 × 17.5 × 19.2 in (4.4 × 44.5 × 48.8 cm)
Weight (with PSU)	16.01 lb / 7.26 kg
Operating Temperature	-5 °C to +45 °C (sea level)
Operating Humidity	5% to 90% non-condensing

Cisco Catalyst C9300L-24UXG-2Q-A Detailed Specifications

MTBF (hours)	291,670
Acoustic Noise	44 dB typical (fan noise, half PoE load)

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