



C9300L-24UXG-2Q-E DataSheet

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

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C9300L-24UXG-2Q-E Description

C9300L-24UXG-2Q-E offers 24 × 1 Gb UPOE ports (60 W) and eight Multigigabit (100M/1G/2.5G/5G/10G) UPOE ports for high-density access applications. A 128 Gbps non-blocking fabric ensures smooth forwarding across all ports (95.23 Mpps), while StackWise-320 enables up to eight switches to function as one with 320 Gbps per switch and < 50 ms fail-over. The two built-in 40 Gb QSFP uplinks provide high-speed aggregation to distribution or core layers. Network Essentials delivers L2/L3 switching, basic routing, VLAN segmentation, and QoS. A single 715 W AC PSU powers the switch and up to 445 W of PoE budget, with redundant fans ensuring continuous operation. The switch also includes 8 GB DRAM, 16 GB flash, and an optional USB 3.0 SSD slot for on-box container apps such as ThousandEyes and ASA-C for telemetry and security.

Quick Specs

C9300L-24UXG-2Q-E	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 (100M/1G/2.5G/5G/10G) + 16 × 1G, all UPOE (60 W/port)
Uplink ports	2 × 40 Gb QSFP fixed uplinks

Stacking	StackWise-320: 320 Gbps per switch; up to 8 members; < 50 ms fail-over
Default PSU / PoE budget	715 W AC (platinum) / up to 445 W PoE
DRAM / Flash	8 GB / 16 GB
Software license	Network Essentials (-E)

Key Features

Product Comparison

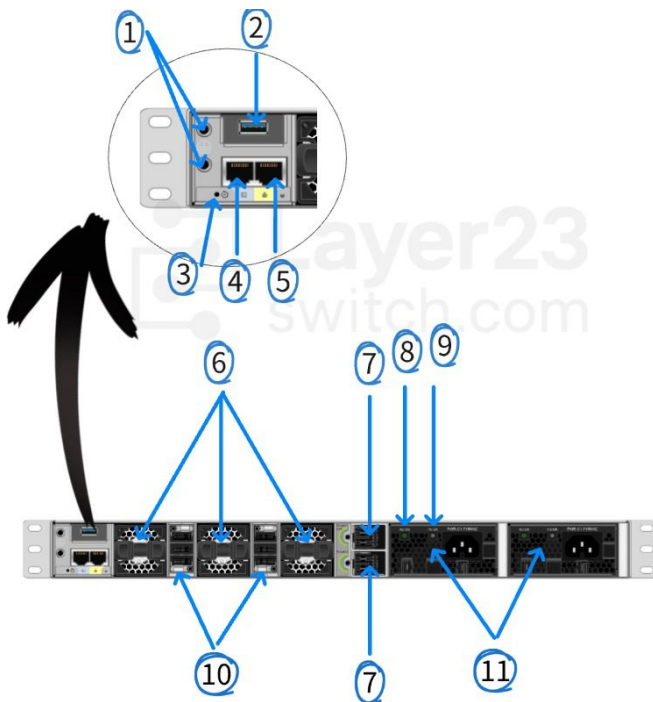
Parameter	C9300L-24UXG-2Q-E	C9300L-24P-4X-E	C9300L-24T-4X-E
Switching capacity	128 Gbps (448 Gbps stacked)	128 Gbps (448 Gbps stacked)	56 Gbps (376 Gbps stacked)
Forwarding rate	95.23 Mpps (333.33 Mpps stacked)	95.23 Mpps (333.33 Mpps stacked)	41.66 Mpps (279.76 Mpps stacked)
Downlink interfaces	8 × mGig + 16 × 1 G UPOE (60 W/port)	24 × 1 Gb PoE+ (30 W/port)	24 × 1 Gb (non-PoE)
Uplink ports	2 × 40 Gb QSFP fixed uplinks	4 × 10 Gb/1 Gb SFP+	4 × 1 Gb SFP
Packet buffer size	16 MB	16 MB	16 MB
PoE budget	445 W	1440 W	N/A
Software license	Network Essentials (-E)	Network Essentials (-E)	Network Essentials (-E)

C9300L-24UXG-2Q-E Switch Rear Panel

The switch rear panel includes StackWise connectors, StackPower or XPS connectors,

ports, fan modules, and power supply modules.

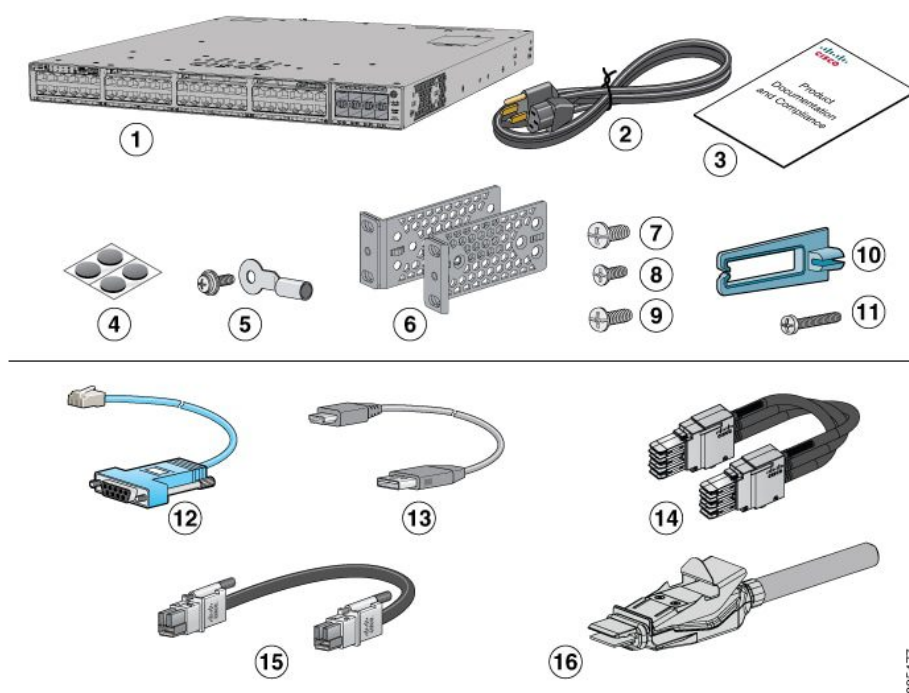
1	Ground connectors	7	StackPower connectors
2	USB3.0-SSD port	8	AC OK (input) status LED
3	BEACON LED	9	PS OK (output) status LED
4	CONSOLE (RJ-45 console port)	10	StackWise-480 port connectors
5	MGMT (RJ-45 10/100/1000 management port)	11	Power supply modules
6	Fan modules	-	-



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



385477

Specification

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

Model SKU	C9300L-24UXG-2Q-E
Software Image	Network Essentials (-E)
Switching Capacity	128 Gbps (non-blocking)
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 (100M/1G/2.5G/5G/10G) + 16 × RJ-45 1G, Cisco UPOE (60 W/port)
Uplink Ports	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
VLAN IDs	4,094
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
Fans	3 × field-replaceable, N+1 redundant
Default PSU	715 W AC (platinum)
Max PoE Budget	445 W
Dimensions (H × W × D)	1.73 × 17.5 × 16.1 in (4.4 × 44.5 × 40.9 cm)
Weight (with PSU)	16.01 lb / 7.26 kg
Operating Temperature	-5 °C to +45 °C (sea level)

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