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C9300X-24Y-E DataSheet

Cisco C9300X-24Y-E: 24×25 G/10 G/1 G SFP28, Access the detailed C9300X-24Y-E datasheet and ensure you're getting the best deal.

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C9300X-24Y-E Description

Cisco Catalyst C9300X-24Y-E is a high-density, data-only fiber access switch engineered for campus and data-center edge environments that demand ultra-high throughput with flexible uplink options. It provides 24 multi-rate SFP28 ports capable of 25 Gbps, 10 Gbps, or 1 Gbps, allowing seamless migration from 10 GbE to 25 GbE as network needs evolve. There are four modular uplink slots, supporting any combination of C9300X network modules—such as the NM-8Y (8×25 G/10 G/1 G SFP), NM-2C (2×100 G/40 G QSFP), or NM-4C (4×100 G/40 G QSFP)—for tailored aggregation or core connectivity without forklift upgrades.Powered by a single 715 W AC supply (PWR-C1-715WAC-P), the switch consumes approximately 115 VA at idle while delivering nonblocking, line-rate performance via the UADP 2.0Sec ASIC. In standalone mode, it delivers 2 Tbps of switching capacity (2,000 Gbps) and 1,488 Mpps forwarding; when stacked via StackWise-1T (up to eight members), capacity scales to 3 Tbps (3,000 Gbps) and forwarding to 2,232 Mpps.

Quick Specs

Parameter	Specification
Model	C9300X-24Y-E
Switching Capacity	2 Tbps standalone / 3 Tbps stacked

Forwarding Rate	1,488 Mpps standalone / 2,232 Mpps stacked
Downlink Ports	24 × multi-rate SFP28 (25 G/10 G/1 G) fiber
Uplink Module Slots	4 × modular uplink slots (supports NM-8Y, NM-2C, NM-4C)
Stacking Bandwidth	StackWise-1T (1 Tbps per stack link)
DRAM	16 GB
Flash Storage	16 GB

Key Features

Product Comparison

Parameter	C9300X-24Y-E	C9300X-12Y-E	C9300X-48TX-E
Downlink Ports	24 × 25 G/10 G/1 G SFP28	12 × 25 G/10 G/1 G SFP28	48 × 10 G/5 G/2.5 G/1 G/100 M mGig SFP+
Uplink Module Slots	4 modular (NM-8Y, NM-2C, NM-4C)	4 modular (NM-8Y, NM-2C, NM-4C)	4 modular (NM-8M, NM-2C, NM-4C)
Switching Capacity	2 Tbps / 3 Tbps stacked	1.4 Tbps / 2.4 Tbps stacked	1.76 Tbps / 2.76 Tbps stacked
Forwarding Rate	1,488 Mpps / 2,232 Mpps stacked	1,041 Mpps / 1,785 Mpps stacked	1,309 Mpps / 2,232 Mpps stacked
Stacking Bandwidth	1 Tbps (StackWise-1T)	1 Tbps (StackWise-1T)	1 Tbps (StackWise-1T)
Power Supply	1 × 715 W AC (no PoE)	1 × 715 W AC (no PoE)	1 × 715 W AC (no PoE)
License Image	Network Essentials ("-E")	Network Essentials ("-E")	Network Essentials ("-E")

C9300X-24Y-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	–	–
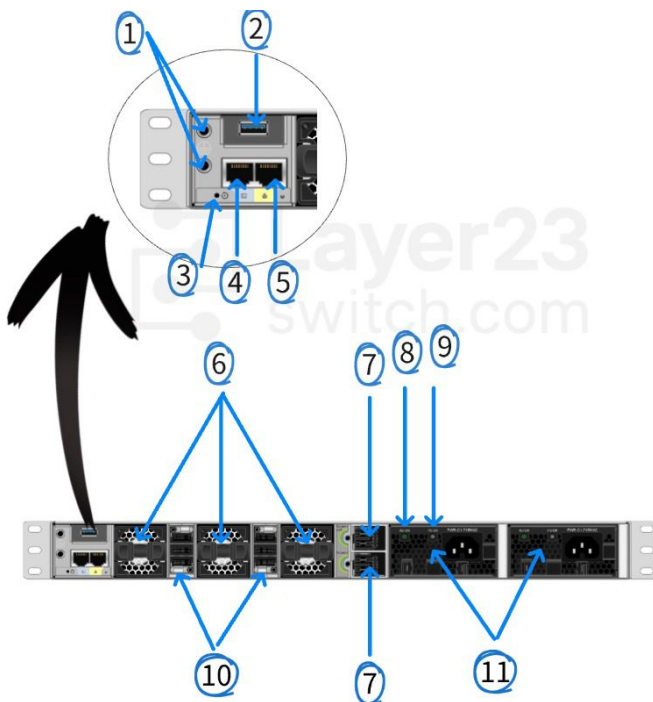
Components Delivered in the Shipping Box

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
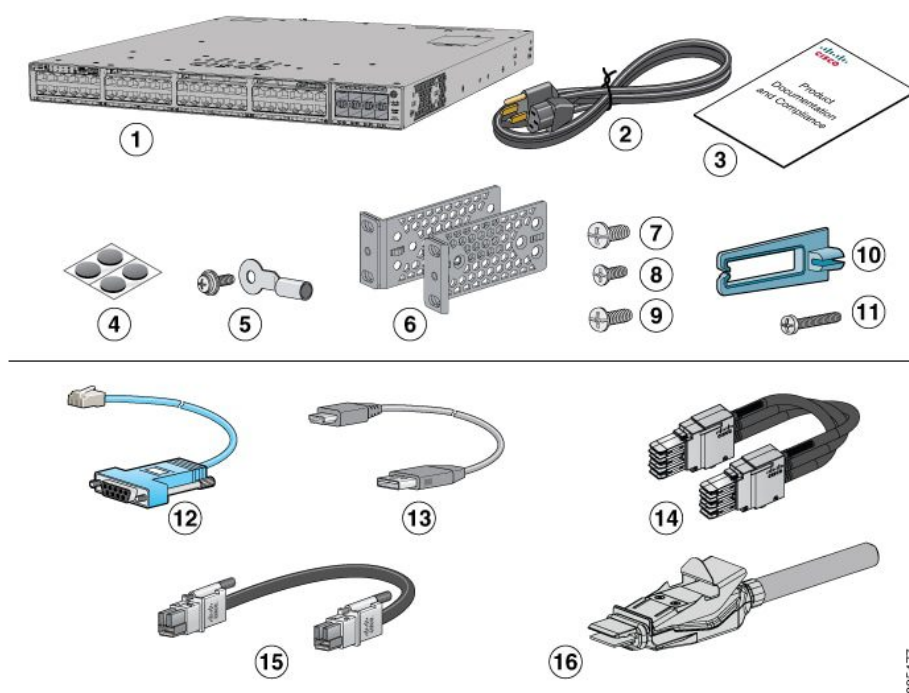
Specification

Parameter	Specification	Parameter	Specification
Model	C9300X-24Y-E	Chassis Dimensions (H × W × D, chassis only)	1.73″ × 17.5″ × 16.1″
Chassis with Default PSU	1.73″ × 17.5″ × 17.6″	Chassis with Secondary PSU	1.73″ × 17.5″ × 19.2″
Weight (with Default PSU)	16.2 lb (7.35 kg)	DRAM	16 GB
Flash Storage	16 GB	MAC Address Table	32,000 entries
IPv4 Routes	39,000 (24,000 direct + 15,000 indirect)	IPv6 Routing Entries	19,500 entries
Multicast Routing Scale	8,000 entries	QoS Scale Entries	4,000 entries
ACL Scale Entries	8,000 entries	Packet Buffer	32 MB
Flexible NetFlow Entries	128,000 flows	VLAN IDs	4,094
Total SVIs	1,000	Jumbo Frame Support	Up to 9,198 bytes
Switching Capacity	2,000 Gbps	Switching Capacity (with stacking)	3,000 Gbps
Forwarding Rate	1,488 Mpps	Forwarding Rate (with stacking)	2,232 Mpps
Downlink Ports	24 × 25G/10G/1G SFP28	Uplink Slots	4 × modular (10G/25G/40G/100G)
Default Power Supply	PWR-C1-715WAC-P (715 W AC)	Available PoE	None
Total Routed Ports per Stack	448	MTBF	249,350 hours
Host CPU	x86 4-core	SUDI Support	Secure Universal Device ID
Trustworthy System	Secure Boot	Operating Temperature	−5 °C to +45 °C
Storage Temperature	−40 °C to +70 °C	AC Input Voltage	100–240 VAC, 50–60 Hz

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