C9300X-24HX-A DataSheet

Cisco C9300X-24HX-A: 24-port UPOE+ Multigigabit switch with 800 Gbps switching, 100 G IPsec, StackWise-1T and Network Advantage. Ideal for Enterprise IT.

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C9300X-24HX-A Description

Cisco Catalyst 9300X-24HX-A is a high-performance, stackable enterprise access switch engineered for advanced campus and edge deployments. Powered by the UADP 2.0sec ASIC, it delivers up to 100 Gbps of line-rate IPsec encryption and deep packet inspection for secure branch-to-cloud connectivity. Featuring 24 UPOE+ (90 W) Multigigabit ports, this model supports 10 G/5 G/2.5 G/1 G/100 Mbps over existing Cat 5e/Cat 6 cabling—ideal for Wi-Fi 6/6E access points, high-power IoT devices, and digital signage. With 16 GB of DRAM, 16 GB of flash, and an x86 CPU complex capable of hosting containerized applications (e.g., Cisco ASAc firewall), it provides on-box programmability and application hosting.

Quick Specs

Component	Description
C	Cisco Catalyst series
9300X	9300X Series (UADP 2.0sec ASIC, higher-scale features)
24	24 downlink ports
H	UPOE+ (90 W per port)
X	Multigigabit (10G/5G/2.5G/1G/100 M) port support

-A	Network Advantage software license (full feature set: advanced routing, SD-Access, etc.)

Key Features

On-Box Application Hosting

Host containerized services like Cisco ASAc firewall on the switch's x86 CPU, reducing latency and offloading security processing from external devices.

Product Comparison

Model	Downlink Ports	Uplink Options	Switching Capacity	Forwarding Rate	License
C9300X-24HX-A	24 × 10 G Multigigabit UPOE+	10 G/25 G/40 G/100 G modular	800 Gbps	654.72 Mpps	Network Advantage
C9300X-48HX-A	48 × 10 G Multigigabit UPOE+	10 G/25 G/40 G/100 G modular	1,760 Gbps	1,309 Mpps	Network Advantage
C9300-24U-A	24 × 1 G UPOE	10 G/25 G modular	416 Gbps	309.52 Mpps	Network Advantage

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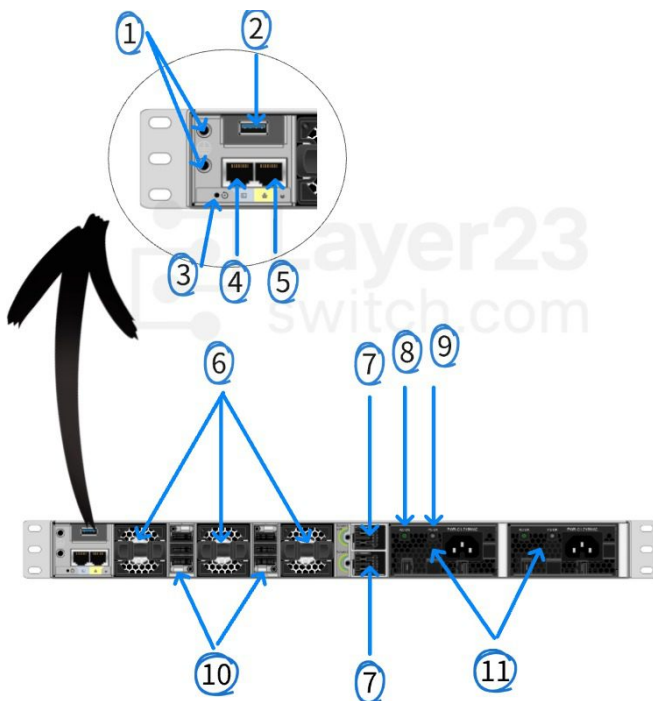
Components Delivered in the Shipping Box

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
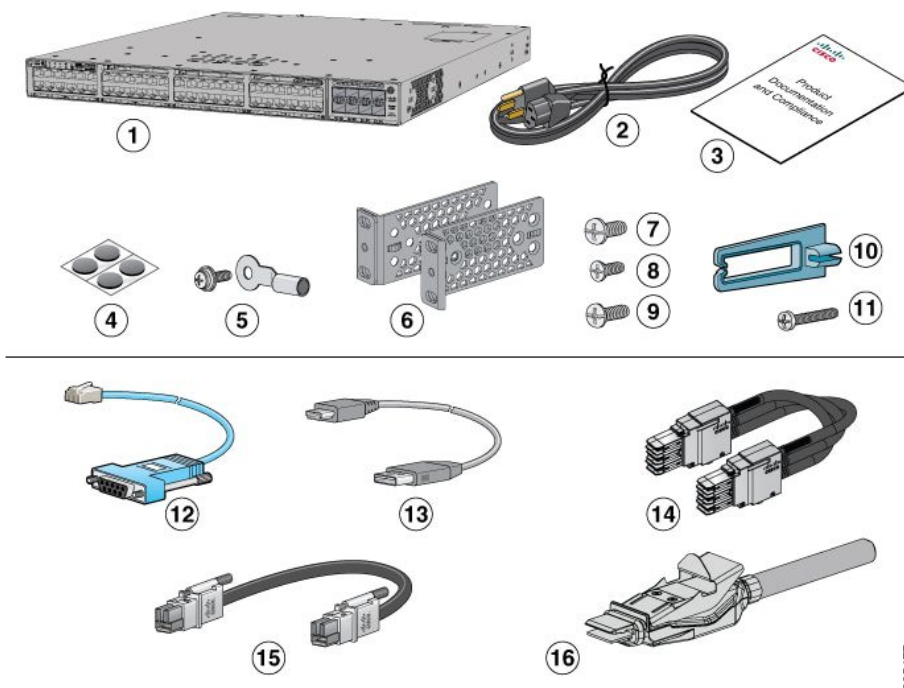
Specification

Parameter	Specification
Model	C9300X-24HX-A
Chassis Dimensions (H × W × D)	1.73″ × 17.5″ × 17.57″ (4.4 cm × 44.5 cm × 44.6 cm)
Weight (with default PSU)	13.8 lb (6.25 kg)
DRAM	16 GB
Flash Storage	16 GB

Parameter	Specification
MAC Address Table	32,000 entries
IPv4 Routes	39,000 (24,000 direct + 15,000 indirect)
IPv6 Routes	19,500 entries
Multicast Routing Scale	8,000 entries
QoS Scale	4,000 entries
ACL Scale	8,000 entries
Packet Buffer	16 MB (for 24×10 G Multigig and 12× SFP ports)
Flexible NetFlow Entries	64,000 flows
VLAN IDs	4,094
Total SVIs	1,000
Jumbo Frame Support	Up to 9,198 bytes
Switching Capacity	800 Gbps
Forwarding Rate	654.72 Mpps
Stacking Bandwidth	1 Tbps (StackWise-1T)
Modular Uplink Options	10 G/25 G/40 G/100 G optics (select via network module)
Downlink Ports	24 × 10 G Multigigabit UPOE+ (10 G/5 G/2.5 G/1 G/100 Mbps)
Power Supply (Default)	PWR-C1-1100WAC-P (1,100 W AC)
Available PoE Power (Default)	735 W total (supports up to 24 × 90 W UPOE+)
MTBF	220,250 hours
Operating Temperature	−5 °C to +45 °C (up to 5,000 ft / 1,500 m)
Storage Temperature	−40 °C to +70 °C
AC Input Voltage	100 – 240 VAC, 50 – 60 Hz

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