

BRAND NEW &amp; VERIFIED



## VERIFIED PRODUCT DATASHEET

**C9500-16X-A**

Cisco Network Hardware Specification, Availability and Quote Reference

<b>Product Model</b>	<b>C9500-16X-A</b>
<b>Document Type</b>	<b>Product Datasheet</b>
<b>Condition</b>	<b>Brand New, Original and Verifieded</b>
<b>Supplier</b>	<b>Layer23-Switch.com</b>

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## C9500-16X-A Datasheet

The Cisco C9500-16X-A datasheet provides verified specifications, key features, and application scenarios. This document helps engineers and IT buyers quickly evaluate the C9500-16X-A and integrate it into enterprise or service provider networks with confidence.

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### Key Features

#### Balanced 10G Core for Smaller Enterprise Sites

C9500-16X-A fits networks that need a real Catalyst 9500 core platform but do not need the cost or port density of 25G or 100G models. It is practical for campus cores, distribution layers, and branch aggregation sites with moderate 10G fiber requirements.

#### Network Advantage for Advanced Routing and Resiliency

The **-A** license is important for enterprise networks that need advanced routing, segmentation, and high-availability functions. It is a better fit than Essentials when the switch will act as a core, collapsed core, or distribution-layer routing device.

#### Modular Uplink Choice Reduces Overbuying

Instead of forcing one uplink design, C9500-16X-A allows the buyer to choose either **8 additional 1/10G SFP+ ports** or **2 x 40G QSFP+ uplinks**. This helps procurement match the actual fiber design instead of paying for unused high-speed ports.

#### StackWise Virtual for Core Redundancy

For dual-core designs, StackWise Virtual helps simplify topology and improve availability by allowing two physical switches to operate as one logical switching system. This is valuable for enterprises that want resilient upstream and downstream EtherChannel design.

#### Strong Fit for 10G Fiber Aggregation

With 16 native SFP/SFP+ ports, this model is suitable for aggregating access switches, firewall uplinks, distribution switches, storage-facing links, and server-room fiber connections where 10G remains the main speed requirement.

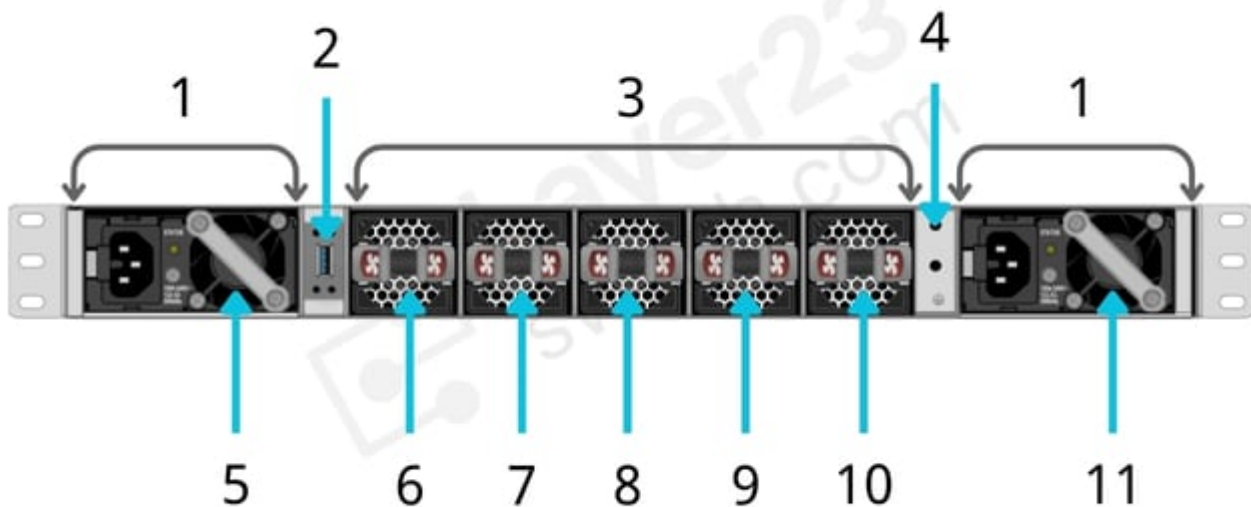
#### Lower Deployment Risk for Catalyst Standardization

For customers already using Catalyst 9000 access switches, C9500-16X-A keeps the core layer within the same Cisco Catalyst operating model, making operations, licensing, monitoring, and lifecycle planning easier for IT teams.

## C9500-16X-A Switch Rear Panel

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

1	Power supply modules	7	Fan 3
2	USB 3.0 host port	8	Fan 2
3	Fan modules	9	Fan 1
4	Grounding pad	10	Fan 0
5	PSU 1	11	PSU 0
6	Fan 4	-	-



## 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 9500 Series switch with optional network module <sup>1</sup> (power supply and fan modules not shown)	7	Eight number-8 Phillips flat-head 0.312" long screws
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2	Product documentation and compliance document	8	Two M4.0 x 20mm Phillips pan-head screws (Black color)
3	Two 19-inch mounting brackets	9	Ground lug and two M4.0 x 8mm Phillips pan-head screws
4	Two Cable guides	10	(Optional) AC power cord <sup>2</sup>
5	Four number-12 pan-head 0.50" long screws	11	(Optional) RJ-45 console cable <sup>1</sup>
6	Four number-10 pan-head 0.625" long screws	12	(Optional) USB console cable <sup>1</sup>



## Specification

Parameter	Details	Parameter	Details
<b>Product SKU</b>	C9500-16X-A	<b>Product Description</b>	Cisco Catalyst 9500 16-port 10G switch, Network Advantage License
<b>Product Series</b>	Cisco Catalyst 9500 Series	<b>Switch Role</b>	Fixed enterprise core and aggregation
<b>Base Ports</b>	16 × 1/10G SFP/SFP+	<b>Maximum 10G Port Density</b>	16 + 8 with uplink module
<b>Maximum 40G Port Density</b>	2 with uplink module	<b>Supported Network Modules</b>	C9500-NM-8X / C9500-NM-2Q
<b>ASIC</b>	UADP 2.0	<b>Switching Capacity</b>	Up to 480 Gbps
<b>Forwarding Rate</b>	Up to 360 Mpps	<b>Total MAC Addresses</b>	Up to 64,000
<b>Total IPv4 Routes</b>	Up to 64,000 indirect	<b>Total IPv4 Host Routes</b>	Up to 80,000 host
<b>Total IPv6 Routes</b>	Up to 32,000 indirect	<b>Total IPv6 Host Routes</b>	Up to 40,000 host
<b>IPv4 Multicast Routes</b>	Up to 32,000	<b>IPv6 Multicast Routes</b>	Up to 16,000
<b>QoS ACL Scale</b>	Up to 18,000 / 9,000	<b>Security ACL Scale</b>	Up to 18,000 / 9,000
<b>Flexible NetFlow Entries</b>	Up to 512,000	<b>DRAM</b>	16 GB
<b>Flash</b>	16 GB	<b>VLAN IDs</b>	4,094
<b>PVST Instances</b>	300	<b>STP Virtual Ports for PVST</b>	13,000

Parameter	Details	Parameter	Details
<b>STP Virtual Ports for MST</b>	13,000	<b>Total SVIs</b>	1,000
<b>Jumbo Frames</b>	9,198 bytes	<b>Minimum Software</b>	Cisco IOS XE 16.8.1
<b>Software License</b>	Network Advantage	<b>Smart Licensing</b>	Supported
<b>Rack Units</b>	1RU	<b>Dimensions</b>	1.73 × 17.5 × 21.52 in. / 4.39 × 44.45 × 54.66 cm
<b>Weight</b>	23.6 lb / 10.7 kg	<b>Input Voltage</b>	90 to 264 VAC
<b>Operating Temperature</b>	32° to 104°F / 0° to 40°C up to 10,000 ft	<b>Operating Altitude</b>	Up to 10,000 ft at 40°C; up to 6,000 ft at 45°C
<b>Storage Temperature</b>	-4° to 149°F / -20° to 65°C	<b>Operating Humidity</b>	5% to 90%, noncondensing
<b>Storage Humidity</b>	5% to 95%, noncondensing	<b>MTBF</b>	315,790 hours
<b>Power Supply Support</b>	PWR-C4-950WAC-R / PWR-C4-950WDC-R	<b>Fan Support</b>	FAN-T4-R, up to 5 fans
<b>AC Power Supply Rating</b>	950W	<b>AC PSU Efficiency</b>	94%
<b>DC Power Supply Rating</b>	950W	<b>DC PSU Efficiency</b>	91% at 48Vin, 50% load
<b>BTU with 10G Network Module</b>	941 BTU/hr with AC PSU; 967 BTU/hr with DC PSU	<b>BTU with 40G Network Module</b>	904 BTU/hr with AC PSU; 930 BTU/hr with DC PSU
<b>Rack Mount Accessories</b>	C9500-ACC-KIT-19I= / C9500-ACC-KIT-23I= / C9500-4PT-KIT=	<b>RFID Tag</b>	Ships with RFID tag

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