

# Cisco Nexus 9500 Cloud-Scale Line Cards and Fabric Modules

---

# Contents

Product overview	3
Cisco Nexus 9500 platform cloud-scale line cards	4
Cisco Nexus 9500 cloud-scale platform fabric modules and performance	7
Supported optics modules	9
Mechanical specifications	9
Regulatory standards compliance	11
Ordering information	12
Warranty	12
Cisco environmental sustainability	13
Service and Support	13
Cisco Capital	13
For more information	13
Document history	14

## Product overview

The Cisco Nexus® 9500 switching platform (Figure 1) offers three modular chassis:

- Cisco Nexus 9500 4-slot switch
- Cisco Nexus 9500 8-slot switch
- Cisco Nexus 9500 16-slot switch



**Figure 1.**  
Cisco Nexus 9500 Series Cloud-Scale Switch Chassis

The Cisco Nexus 9500 Series modular switches support a comprehensive selection of cloud-scale line cards and fabric modules that provide 1-, 10-, 25-, 40-, 50-, 100-, 200-, and 400-Gigabit Ethernet interfaces. A cloud scale line card provides up to 6.4 Terabits per second (Tbps) per slot and each cloud scale fabric module provides up to 1.6 Tbps to each line card slot. Using these cloud-scale line cards the Cisco Nexus 9500 Series switches can be configured with up to.

1. 192 400-Gigabit Ethernet ports (or)
2. 384 200-Gigabit Ethernet ports (or)
3. 1024 100-Gigabit Ethernet ports (or)
4. 2048 50-Gigabit Ethernet ports (or)
5. 1024 40-Gigabit Ethernet ports (or)
6. 2304 25-Gigabit Ethernet ports (or)
7. 2304 1/10-Gigabit Ethernet ports







**Note:** This data sheet specifies hardware capabilities only. Please refer to Cisco ACI or Cisco NX-OS software release notes and appropriate feature documentation for more details.



## Cisco Nexus 9500 platform cloud-scale line cards

The Cisco Nexus 9500 platform supports a rich selection of hot-swappable multispeed cloud-scale line cards and fabric modules optimized for data-center deployments. These cloud-scale line cards and fabric modules, built using Cisco® cloud-scale ASICs, provide the ideal foundation for large scalable data centers. The Cisco cloud-scale ASICs provide enhanced performance and features that are required to meet the evolving needs of the world's largest cloud-scale data centers. These ASICs not only support foundational L2/L3 networking capabilities but also support enhanced capabilities such as policy-based fabric architectures (ACI or VXLAN), smart buffering, integrated line rate security, and real-time streaming telemetry over multispeed Ethernet ports.

The latest Cisco® 400-Gigabit cloud-scale ASICs also support Segment Routing over IPv6 (SRv6) and enhanced streaming telemetry capabilities.

**Table 1.** Cisco Nexus 9500 cloud-scale line cards

Line Card Type	Description
<b>400-Gbps line cards</b>	
<b>N9K-X9716D-GX: 400-Gigabit Ethernet Line Card</b> 	<ul style="list-style-type: none"> <li>16-port 400-Gigabit Ethernet Quad Small Form-Factor Pluggable Double Density (QSFP-DD) line card</li> <li>Every port is 1x400-, 4x100-, 2x100G-, 4x50-, 4x40-, 4x25-, and 4x10-Gigabit Ethernet breakout capable*</li> </ul>
<b>100-Gbps line cards</b>	
<b>N9K-X9736C-FX3: 100-Gigabit Ethernet Line Card</b> 	<ul style="list-style-type: none"> <li>36-port 100-Gigabit Ethernet Quad Small Form-Factor Pluggable 28 (QSFP28) line card</li> <li>Every port is 1x100-, 2x50-, 1x40-, 4x25-, 4x10-, and 1x10-Gigabit Ethernet breakout capable*</li> <li>Ports 1 – 28 support 1 Gigabit Ethernet</li> </ul>
<b>N9K-X9736C-FX: 100-Gigabit Ethernet Line Card</b> 	<ul style="list-style-type: none"> <li>36-port 100-Gigabit Ethernet Quad Small Form-Factor Pluggable 28 (QSFP28) line card</li> <li>Every port is 1x100-, 2x50-, 1x40-, 4x25-, 4x10-, and 1x10-Gigabit Ethernet breakout capable*</li> <li>Ports 1 – 28 support 1 Gigabit Ethernet</li> </ul>
<b>N9K-X9732C-EX: 100-Gigabit Ethernet Line Card</b> 	<ul style="list-style-type: none"> <li>32-port 100-Gigabit Ethernet Quad Small Form-Factor Pluggable 28 (QSFP28) line card</li> <li>Every port is 1x100-, 2x50-, 1x40-, 4x25-, 4x10-, and 1x1/10-Gigabit Ethernet breakout capable*</li> </ul>
<b>N9K-X9732C-FX: 100-Gigabit Ethernet Line Card</b> 	<ul style="list-style-type: none"> <li>32-port 100-Gigabit Ethernet Quad Small Form-Factor Pluggable 28 (QSFP28) line card</li> <li>Every port is 1x100-, 2x50, 1x40-, 4x25-, 4x10-, and 1x1/10-Gigabit Ethernet breakout capable*</li> <li>Supports 4+1 FM redundancy</li> </ul>
<b>N9K-X9736C-EX: 100-Gigabit Ethernet Line Card</b> 	<ul style="list-style-type: none"> <li>36-port 100-Gigabit Ethernet Quad Small Form-Factor Pluggable 28 (QSFP28) line card</li> <li>Every port is 1x100-, 2x50-, 1x40-, 4x25-, 4x10-, and 1x1/10-Gigabit Ethernet breakout capable*</li> </ul>

Line Card Type	Description
<b>10/25-Gbps Fiber Line Cards</b>	
<b>N9K-X97160YC-EX: 1/10/25-Gigabit Ethernet Access-Layer and 10/40/100-Gigabit Ethernet Aggregation-Layer Line Card</b> 	<ul style="list-style-type: none"> <li>48-port 1-, 10-, and 25-Gigabit Ethernet SFP+ and 4-port 40/100-Gigabit Ethernet QSFP28 line card</li> </ul>
<b>10-Gbps copper line cards</b>	
<b>N9K-X9788TC-FX: 1/10 Gigabit Ethernet BaseT Access-Layer and 40/100 Gigabit Ethernet Aggregation-Layer Line Card</b> 	<ul style="list-style-type: none"> <li>48-port 100-Megabit and 1/10-Gigabit Ethernet BASE-T and 4-port 40/100-Gigabit Ethernet QSFP28 line card</li> </ul>

\* Breakout capability requires the availability of appropriate breakout cables and software support. Please check Cisco ACI and Cisco NX-OS software release notes and the Cisco Optics Compatibility Matrix for the latest available support.

**Table 2.** Cisco Nexus 9500 cloud-scale line card use-case summary

Line Card/Features	Cisco NX-OS	Cisco ACI® spine	MACSec	N+1 FM redundancy
<b>X9716D-GX</b>	Yes	Yes	Yes	No
<b>X9736C-FX3</b>	Yes	No	Yes	No
<b>X9736C-FX</b>	Yes	Yes	Yes	No
<b>X9732C-EX</b>	Yes	Yes	No	No
<b>X9732C-FX</b>	Yes	No	Yes	Yes
<b>X9736C-EX</b>	Yes	No	No	No
<b>X97160YC-EX</b>	Yes	No	No	No
<b>X9788TC-FX</b>	Yes	No	Yes	No

**Table 3.** Cisco Nexus 9500 cloud-scale line card specifications

Line card	FM required for max bandwidth	FM required for N+1 redundancy	Performance	Packet buffer
<b>X9716D-GX</b>	4	N/A	12.8 Tbps 4.3 bpps	160 MB
<b>X9732C-EX</b>	4	N/A	6.4 Tbps 4.3 bpps	160 MB
<b>X9736C-FX3</b>	5*	N/A	7.2 Tbps 2.4 bpps	160 MB
<b>X9736C-FX</b>	5*	N/A	7.2 Tbps 2.4 bpps	160 MB
<b>X9732C-FX</b>	4	5 <sup>#</sup>	6.4 Tbps 2.16 bpps	160 MB
<b>X9736C-EX</b>	4	N/A	6.4 Tbps 4.9 bpps	160 MB
<b>X97160YC-EX</b>	4	N/A	3.2 Tbps 2.17 bpps	80 MB
<b>X9788TC-FX</b>	4	N/A	1.76 Tbps 0.59 bpps	80MB

\* To achieve max bandwidth with 5 fabric modules and X9736C-FX or X9736C-FX3 cards, the line cards in the chassis must only be the X9736C-FX or X9736C-FX3 cards. The X9736C-FX and X9736C-FX3 cards supports up to 6.4Tbps when mixed with other line cards and 4 fabric modules.

<sup>#</sup> To achieve N+1 fabric module redundancy with 5 fabric modules and X9732C-FX/X9736C-FX3 cards, the line cards in the chassis must only be the X9732C-FX/X9736C-FX3 cards.

Select EX, FX, FX3 and GX line cards can be installed together in the same Cisco Nexus 9500 chassis. In such a configuration, the chassis supports a maximum of four fabric modules and any additional fabric modules installed will be powered down. Any features or capabilities that require more than four fabric modules will be automatically disabled in such a configuration.

## Cisco Nexus 9500 cloud-scale platform fabric modules and performance

The Cisco Nexus 9500 platform is designed as a Clos fabric that interconnects each line card directly with each rear-mounted fabric module. All traffic between the line cards is load balanced across all fabric modules, providing optimal bandwidth distribution within the chassis. This load-balancing capability provides enhanced system reliability and redundancy. The switch continues to operate even in the event of a loss of a fabric module, albeit at a lower capacity, as the remaining fabric modules continue to provide switching capacity to the line cards.

The Cisco Nexus 9500 Cloud Scale platform supports the following fabric modules:

- 4-slot and 8-slot FM-G fabric modules that provide up to 1.6 Tbps capacity per line card slot.
- 8-slot and 16-slot FM-E2 fabric modules that provide up to 800 Gbps capacity per line card slot.
- 4-slot, 8-slot, and 16-slot FM-E fabric modules that provide up to 800 Gbps capacity per line card slot.

These fabric modules provide upgradability and investment protection for the Cisco Nexus 9500 Series chassis. All fabric modules installed in a chassis should be of the same type.

**Table 4.** Cisco Nexus 9500 cloud-scale line cards and FM-G Fabric Module Compatibility

Line card/FM	C9504-FM-G	C9508-FM-G
<b>X9716D-GX</b>	Cisco ACI spine and Cisco NX-OS	Cisco ACI spine and Cisco NX-OS
<b>X9736C-FX3</b>	Cisco NX-OS	Cisco NX-OS
<b>X9736C-FX</b>	Cisco ACI spine and Cisco NX-OS	Cisco ACI spine and Cisco NX-OS
<b>X9732C-EX</b>	Cisco ACI spine and Cisco NX-OS	Cisco ACI spine and Cisco NX-OS
<b>X9732C-FX</b>	Cisco NX-OS	Cisco NX-OS
<b>X9736C-EX</b>	Cisco NX-OS	Cisco NX-OS
<b>X97160YC-EX</b>	Cisco NX-OS	Cisco NX-OS
<b>X9788TC-FX</b>	Cisco NX-OS	Cisco NX-OS

**Table 5.** Cisco Nexus 9500 cloud-scale line cards and FM-E/E2 Fabric Modules Compatibility

Line card/FM	C9504-FM-E	C9508-FM-E	C9516-FM-E	C9508-FM-E2	C9516-FM-E2
<b>X9716D-GX</b>	N/A	N/A	N/A	N/A	N/A
<b>X9736C-FX3</b>	Cisco NX-OS	Cisco NX-OS	Cisco NX-OS	Cisco NX-OS	Cisco NX-OS
<b>X9736C-FX</b>	Cisco ACI spine and Cisco NX-OS	Cisco ACI spine and Cisco NX-OS	Cisco NX-OS	Cisco ACI spine and Cisco NX-OS	Cisco ACI spine and Cisco NX-OS
<b>X9732C-EX</b>	Cisco ACI spine and Cisco NX-OS	Cisco ACI spine and Cisco NX-OS	Cisco NX-OS	Cisco ACI spine and Cisco NX-OS	Cisco ACI spine and Cisco NX-OS
<b>X9732C-FX</b>	Cisco NX-OS	Cisco NX-OS	Cisco NX-OS	Cisco NX-OS	Cisco NX-OS
<b>X9736C-EX</b>	Cisco NX-OS	Cisco NX-OS	Cisco NX-OS	Cisco NX-OS	Cisco NX-OS
<b>X97160YC-EX</b>	Cisco NX-OS	Cisco NX-OS	Cisco NX-OS	Cisco NX-OS	Cisco NX-OS
<b>X9788TC-FX</b>	Cisco NX-OS	Cisco NX-OS	Cisco NX-OS	Cisco NX-OS	Cisco NX-OS

The Cisco Nexus 9500 Cloud Scale line cards support several forwarding templates to efficiently allocate onboard memory for varying deployment scenarios.

**Note:** This data sheet specifies hardware capabilities only. Please refer to Cisco ACI or Cisco NX-OS software release notes and appropriate feature documentation for more details.

**Table 6.** Cisco Nexus 9500 Cloud-Scale Line Cards: Product Specifications – Performance and Scale1

	Cisco Nexus 9500 Series cloud-scale line cards (X9716D-GX)	Cisco Nexus 9500 Series cloud-scale line cards (X9736C-FX3, X9736C-FX, X9732C-FX, X9788TC-FX)	Cisco Nexus 9500 Series cloud-scale line cards (X9732C-EX, X9736C-EX, X97160YC-EX)
<b>Number of Longest Prefix Match (LPM) route entries</b>	IPv4: Upto 2 million IPv6: 1,900 to 1 million (based on prefix length)	IPv4: Up to 2 million IPv6: 1,900 to 1 million (based on prefix length)	IPv4: up to 1 million IPv6: 1900 to 500,000 (based on prefix length)
<b>Number of IP host entries</b>	IPv4: up to 2 million IPv6: up to 32,000	IPv4: up to 2 million IPv6: up to 32,000	IPv4: up to 1 million IPv6: up to 16,000
<b>Number of MAC address entries</b>	Up to 1 million	Up to 512,000	Up to 512,000
<b>Number of multicast routes</b>	Up to 131,000	Up to 131,000	Up to 32,000
<b>Number of Interior Gateway Management Protocol (IGMP) snooping groups</b>	With VPC: 4000 to 32,000 Without VPC: 8000 to 32,000	With VPC: 4000 to 32,000 Without VPC: 8000 to 32,000	With VPC: 4000 to 32,000 Without VPC: 8000 to 32,000
<b>Number of VLANs</b>	Up to 4096	Up to 4096	Up to 4096
<b>Number of Virtual Routing and Forwarding (VRF) instances</b>	Up to 16,000	Up to 16,000	Up to 16,000



	Cisco Nexus 9500 Series cloud-scale line cards (X9716D-GX)	Cisco Nexus 9500 Series cloud-scale line cards (X9736C-FX3, X9736C-FX, X9732C-FX, X9788TC-FX)	Cisco Nexus 9500 Series cloud-scale line cards (X9732C-EX, X9736C-EX, X97160YC-EX)
Number of port channels	Up to 512	Up to 512	Up to 512
Number of port channel links	Up to 32	Up to 32	Up to 32
Number of Equal Cost Multipath (ECMP) paths	Up to 64	Up to 64	Up to 64
Number of active Cisco Switched Port Analyzer (SPAN) sessions	4 to 32	4 to 32	4 to 32
Number of Multiple Spanning Tree (MST) instances	Up to 64	Up to 64	Up to 64
Number of Rapid per-VLAN Spanning Tree (RPVST) instances	Up to 4000	Up to 4000	Up to 4000
Number of Hot Standby Router Protocol (HSRP) groups	Up to 490	Up to 490	Up to 490
Number of tunnel endpoints (VTEP) and VXLAN physical servers per VLAN	Up to 10,000	Up to 10,000	Up to 10,000

## Supported optics modules

Each Cisco Nexus 9500 cloud-scale line card supports an extensive set of optic modules. The Cisco Optics Compatibility Matrix (<https://tmgmatrix.cisco.com/home>) provides the list of optics supported on each line card.

## Mechanical specifications

**Table 7.** Cisco Nexus 9500 Cloud-Scale Line Cards: Product Specifications – Mechanical

	X9716D-GX	X9732C-EX	X9736C-FX3	X9736C-FX	X9732C-FX	X9736C-EX	X97160YC-EX	X9788TC-FX
<b>Weight</b>	15.2 lb	12.13 lb	14.38 lb	14.38 lb	15 lb	14.77 lb	12.75 lb	13 lb
	6.8 kg	5.5 kg	6.5 kg	6.5 kg	6.8 kg	6.7 kg	5.78 kg	5.9 kg
<b>Typical power</b>	650 W	430 W	690 W	607 W	520 W	632 W	415 W	513 W
<b>Maximum power</b>	1680 W	720 W	1075 W	900 W	840 W	792 W	516 W	684 W

	X9716D-GX	X9732C-EX	X9736C-FX3	X9736C-FX	X9732C-FX	X9736C-EX	X97160YC-EX	X9788TC-FX
<b>Mean Time Between Failure (MTBF) hours</b>	338,442	481,470	368,050	420,050	429,090	476,970	580,050	429,630
<b>Hot swappable</b>	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<b>Airflow</b>	Port-side intake	Port-side intake	Port-side intake	Port-side intake	Port-side intake	Port-side intake	Port-side intake	Port-side intake

**Table 8.** Cisco Nexus 9500 FM-G Cloud-Scale Fabric Modules: Product Specifications – Mechanical

	N9K-C9504-FM-G	N9K-C9508-FM-G
<b>Total capacity</b>	6.4 Tbps	12.8 Tbps
<b>Capacity (per slot)</b>	1.6 Tbps	1.6 Tbps
<b>Maximum flow size</b>	400 Gbps	400 Gbps
<b>Weight</b>	7.7 lb (3.4 kg)	14.08 lb (6.3 kg)
<b>Typical power</b>	455 W	685 W
<b>Maximum power</b>	504 W	936 W
<b>MTBF hours</b>	551,390	455,270
<b>Hot swappable</b>	Yes	Yes
<b>Airflow</b>	Port-side intake	Port-side intake

**Table 9.** Cisco Nexus 9500 Cloud-Scale FM-E/E2 Fabric Modules: Product Specifications – Mechanical

	N9K-C9504-FM-E	N9K-C9508-FM-E	N9K-C9508-FM-E2	N9K-C9516-FM-E	N9K-C9516-FM-E2
<b>Total capacity</b>	3,200 Gbps	6,400 Gbps	6,400 Gbps	12,800 Gbps	12,800 Gbps
<b>Capacity (per slot)</b>	800 Gbps	800 Gbps	800 Gbps	800 Gbps	800 Gbps
<b>Maximum flow size</b>	100 Gbps	100 Gbps	100 Gbps	50 Gbps	100 Gbps
<b>Weight</b>	6.6 lb (2.98 kg)	11.6 lb (5.28 kg)	10.94 lb (5.0 kg)	22.7 lb (10.3 kg)	20.31 lb (9.21 kg)
<b>Typical power</b>	234 W	455 W	266 W	980 W	439 W
<b>Maximum power</b>	313 W	570 W	420 W	1320 W	900 W
<b>MTBF hours</b>	829,890	653,420	642,820	363,100	515,870
<b>Hot swappable</b>	Yes	Yes	Yes	Yes	Yes

	N9K-C9504-FM-E	N9K-C9508-FM-E	N9K-C9508-FM-E2	N9K-C9516-FM-E	N9K-C9516-FM-E2
<b>Airflow</b>	Port-side intake	Port-side intake	Port-side intake	Port-side intake	Port-side intake

## Regulatory standards compliance

**Table 10.** Regulatory standards compliance: safety and EMC

Specification	Description
<b>Regulatory compliance</b>	Products should comply with CE Markings according to directives 2004/108/EC and 2006/95/EC
<b>Safety</b>	<ul style="list-style-type: none"> <li>• UL 60950-1 Second Edition</li> <li>• CAN/CSA-C22.2 No. 60950-1 Second Edition</li> <li>• EN 60950-1 Second Edition</li> <li>• IEC 60950-1 Second Edition</li> <li>• AS/NZS 60950-1</li> <li>• GB4943</li> </ul>
<b>EMC: Emissions</b>	<ul style="list-style-type: none"> <li>• 47CFR Part 15 (CFR 47) Class A</li> <li>• AS/NZS CISPR22 Class A</li> <li>• CISPR22 Class A</li> <li>• EN55022 Class A</li> <li>• ICES003 Class A</li> <li>• VCCI Class A</li> <li>• EN61000-3-2</li> <li>• EN61000-3-3</li> <li>• KN22 Class A</li> <li>• CNS13438 Class A</li> </ul>
<b>EMC: Immunity</b>	<ul style="list-style-type: none"> <li>• EN55024</li> <li>• CISPR24</li> <li>• EN300386</li> <li>• KN 61000-4 series</li> </ul>
<b>RoHS</b>	The product is RoHS-6 compliant with exceptions for leaded-Ball Grid-Array (BGA) balls and lead press-fit connectors.

## Ordering information

**Table 11.** Cisco Nexus 9500 Cloud-Scale Line Cards: ordering information

Part Number	Product Description
<b>N9K-X9716D-GX (=)</b>	Cisco Nexus 9500 16p 400G QSFP-DD cloud-scale line card
<b>N9K-X9732C-EX (=)</b>	Cisco Nexus 9500 32p 100G QSFP cloud-scale line card
<b>N9K-X9736C-FX3 (=)</b>	Cisco Nexus 9500 36p 100G QSFP cloud-scale line card
<b>N9K-X9736C-FX (=)</b>	Cisco Nexus 9500 36p 100G QSFP cloud-scale line card
<b>N9K-X9732C-FX(=)</b>	Cisco Nexus 9500 32p 100G QSFP cloud-scale line card
<b>N9K-X9736C-EX(=)</b>	Cisco Nexus 9500 36p 100G QSFP cloud-scale line card
<b>N9K-X97160YC-EX(=)</b>	Cisco Nexus 9500 48p 1/10/25G SFP+ plus 4p 100G QSFP cloud-scale line card
<b>N9K-X9788TC-FX(=)</b>	Cisco Nexus 9500 48p 1/10G BaseT plus 4p 100G QSFP cloud-scale line card

**Table 12.** Cisco Nexus 9500 Cloud-Scale Fabric Modules ordering information

Part Number	Product Description
<b>N9K-C9504-FM-G(=)</b>	Cisco Nexus 9500 4-slot 1.6Tbps cloud-scale fabric module
<b>N9K-C9508-FM-G(=)</b>	Cisco Nexus 9500 8-slot 1.6Tbps cloud-scale fabric module
<b>N9K-C9504-FM-E(=)</b>	Cisco Nexus 9500 4-slot 800Gbps cloud-scale fabric module (100G flows)
<b>N9K-C9508-FM-E(=)</b>	Cisco Nexus 9500 8-slot 800Gbps cloud-scale fabric module (100G flows)
<b>N9K-C9516-FM-E(=)</b>	Cisco Nexus 9500 16-slot 800Gbps cloud-scale fabric module (50G flows)
<b>N9K-C9508-FM-E2(=)</b>	Cisco Nexus 9500 8-slot 800Gbps cloud-scale fabric module (100G flows)
<b>N9K-C9516-FM-E2(=)</b>	Cisco Nexus 9500 16-slot 800Gbps cloud-scale fabric module (100G flows)

**Note:** All part numbers with “=” sign refer to Spare part numbers for ordering.

## Warranty

The Cisco Nexus 9500 platform has a 1-year limited hardware warranty. The warranty includes hardware replacement with a 10-day turnaround from receipt of a Return Materials Authorization (RMA).

# Cisco environmental sustainability

Information about Cisco’s environmental sustainability policies and initiatives for our products, solutions, operations, and extended operations or supply chain is provided in the “Environment Sustainability” section of Cisco’s [Corporate Social Responsibility](#) (CSR) Report.

Reference links to information about key environmental sustainability topics (mentioned in the “Environment Sustainability” section of the CSR Report) are provided in the following table:

Sustainability topic	Reference
Information on product material content laws and regulations	<a href="#">Materials</a>
Information on electronic waste laws and regulations, including products, batteries, and packaging	<a href="#">WEEE compliance</a>

Cisco makes the packaging data available for informational purposes only. It may not reflect the most current legal developments, and Cisco does not represent, warrant, or guarantee that it is complete, accurate, or up to date. This information is subject to change without notice.

## Service and Support

Cisco offers a wide range of services to help accelerate your success in deploying and optimizing the Cisco Nexus 9500 platform in your data center. These innovative Cisco Services offerings are delivered through a unique combination of people, processes, tools, and partners and are focused on helping you increase operational efficiency and improve your data center network.

Cisco Advanced Services use an architecture-led approach to help you align your data center infrastructure with your business goals and achieve long-term value. Cisco SMARTnet™ Service helps you resolve mission-critical problems with direct access at any time to Cisco network experts and award-winning resources. With this service, you can take advantage of the Cisco Smart Call Home service, which offers proactive diagnostics and real-time alerts on your Cisco Nexus 9500 platform switch.

Spanning the entire network lifecycle, Cisco Services offerings help increase investment protection, optimize network operations, support migration operations, and strengthen your IT expertise.

## Cisco Capital

### Flexible Payment Solutions to Help You Achieve Your Objectives

Cisco Capital makes it easier to get the right technology to achieve your objectives, enable business transformation and help you stay competitive. We can help you reduce the total cost of ownership, conserve capital, and accelerate growth. In more than 100 countries, our flexible payment solutions can help you acquire hardware, software, services and complementary third-party equipment in easy, predictable payments. [Learn more](#).

## For more information

For more information about the Cisco Nexus 9000 Series, please visit <https://www.cisco.com/go/nexus9000>.

# Document history

New or revised topic	Described in	Date
Updated MACsec support details.	<a href="#">Line card use-case summary (Table 2)</a>	September 12, 2023
Updated the datasheet with X9736C-FX3 line card	Added the new line card X9736C-FX3 for Nexus 9500 System	December 20, 2024

Americas Headquarters  
Cisco Systems, Inc.  
San Jose, CA

Asia Pacific Headquarters  
Cisco Systems (USA) Pte. Ltd.  
Singapore

Europe Headquarters  
Cisco Systems International BV Amsterdam,  
The Netherlands

Cisco has more than 200 offices worldwide. Addresses, phone numbers, and fax numbers are listed on the Cisco Website at <https://www.cisco.com/go/offices>.

Cisco and the Cisco logo are trademarks or registered trademarks of Cisco and/or its affiliates in the U.S. and other countries. To view a list of Cisco trademarks, go to this URL: <https://www.cisco.com/go/trademarks>. Third-party trademarks mentioned are the property of their respective owners. The use of the word partner does not imply a partnership relationship between Cisco and any other company. (1110R)