

Cisco C9407R

Datasheet



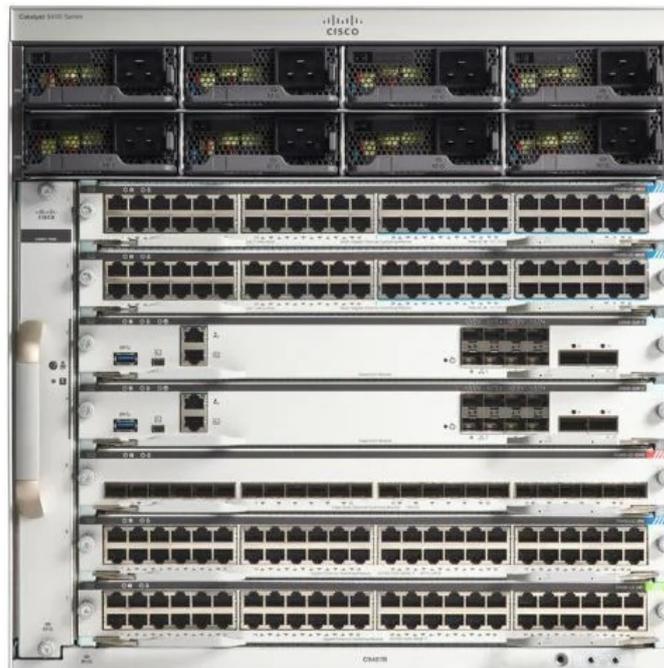
Product Overview

- Cisco Catalyst 9400 Series is a flagship modular switch family for secure, scalable enterprise access and core networking.
- It is ideal for dynamic workspaces, distributed enterprises, and growing hybrid offices requiring high flexibility and uptime.
- Key specifications include support for up to 9 Tbps system bandwidth, high-density 60W/90W PoE, and up to 384 access ports of multi-gig or fiber.
- Advanced features such as StackWise Virtual, full system redundancy, and 100G uplinks ensure operational continuity and future-ready networking.
- Integrated with Cisco Networking Cloud and SD-Access, it streamlines policy automation, unified management, and context-based analytics.
- The C9400 Series delivers secure, modular, and scalable switching to meet evolving business demands in campuses and branch environments.

Product Highlights

- **Next-Generation ASICs:** UADP 3.0sec and 2.0 ASICs deliver programmable pipelines for flexible ACLs, QoS, and high-speed forwarding.
- **Flexible Uplink and Expansion Options:** Multiple supervisors support non-blocking 100G, 40G, 25G, 10G uplinks and up to 384 access ports of mGig and fiber.
- **Full PoE Support:** Cisco UPOE+ (90W), UPOE (60W), and PoE+ (30W) available on all access ports for diverse device power needs.
- **Modern OS and Analytics:** Open Cisco IOS XE enables model-driven programmability, secure application hosting, and visibility with ThousandEyes.

Detailed Features



C9407R

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Component	Specification
Total Number of Slots	7
Line-card Slots	5



High-Performance Modular Architecture

Cisco C9407R features a fully modular chassis design supporting up to 9 Tbps bandwidth. Its architecture allows for flexible expansion in core, distribution, or access scenarios to meet growing business and connectivity needs with minimal disruption.

Comprehensive PoE Capabilities

With support for high-density IEEE 802.3bt PoE up to 90W per port across 384 ports, the C9407R enables reliable power delivery to a wide range of endpoints, including wireless APs, surveillance cameras, and IoT devices. This eliminates the need for additional power infrastructure and helps reduce deployment costs.

Advanced ASIC Technology

The switch leverages Cisco's UADP 3.0sec and 2.0 ASICs, providing advanced, programmable hardware processing. This enables faster performance, template-based allocation for L2/L3, and flexible support for evolving protocols, making the network ready for next-generation services.

Redundancy and High Availability

C9407R integrates state-of-the-art redundancy, including StackWise Virtual support, N+1/N+N power supplies, dual supervisor engines, ISSU, and SSO/NSF. These features guarantee uninterrupted service for mission-critical applications, even during upgrades or failures.

Flexible Uplink and Expansion Support

The chassis offers up to 36 100G QSFP28, 168 25G SFP28, 384 10G/5G/1G mGig RJ-45, and a wide range of SFP port options. This flexibility supports diverse campus needs, from aggregation and core to high-speed access and appliance integration.

Embedded Modern OS Security

Powered by Cisco IOS XE, the modular OS enables model-driven programmability, secure containerized application hosting, Python scripting, and streaming telemetry. Native defenses protect against runtime attacks for heightened security at every layer.

Dual-Stack IPv4/IPv6 Readiness

The platform supports dynamic, hardware-based table allocation for seamless IPv4-to-IPv6 migration and robust dual-stack routing for modern enterprise deployments, preparing networks for future IPv6-only scenarios and growing IoT adoption.

Cloud and Analytics Ready

With support for SD-Access, network virtualization, and built-in ThousandEyes Network and Application Synthetics, users gain real-time visibility from campus to cloud, policy-based automation, and context-aware analytics to optimize user experience and business agility.

Technical Specifications

Product Specifications

Feature	Value
Total number of slots	7
Line-card slots	5
Supervisor engine slots	2
Dedicated supervisor engine slot numbers	3 and 4
Supervisor engine redundancy	Yes
Supervisor engines supported	C9400-SUP-1, C9400-SUP-1XL, C9400-SUP-1XL-Y
Maximum PoE per slot	2880W
Maximum Bandwidth scalability per line-card slot	Up to 480 Gbps on all slots
Number of power supply bays	8
AC input power	Yes
Integrated PoE	Yes
Power supplies supported	3200W AC, 2100W AC



Feature	Value
Number of fan-tray bays	1
Location of 19-inch rack-mount	Front
Dimensions (H x W x D)	17.41 x 17.30 x 16.30 in. (44.22 x 43.94 x 41.40cm)
Rack Units (RU)	10 RU
Mounting	19-in rack compatible (19-in. rack and cable guide hardware included)
Regulatory compliance	CE Marking
Safety	UL 60950-1, CAN/CSA-C222.2 No. 60950-1, EN 60950-1, IEC 60950-1, AS/NZS 60950.1, IEEE 802.3
EMC	47 CFR Part 15, CISPR22 Class A, KN 32 Class A, EN 300 386 V1.6.1, EN 55022 Class A, EN 55032 Class A, CISPR 32 Class A, EN61000-3-2, EN61000-3-3, ICES-003 Class A, TCVN 7189 Class A, V-3 Class A, CNS13438 Class A, CISPR24, EN 300 386, EN55024, TCVN 7317, KN35
Industry EMC, safety, and environmental standards	NEBS: Operating temperature: -5 to 55°C, Relative Humidity: 10-93%, Operating Altitude: up to 1829 m (6000 ft) at 55°C, ETSI 300-019 Requirements are covered under GR-63-CORE with some deviations, SR-3580 NEBS level 3 (GR-63-CORE, to current issue, GR-1089-CORE, to current issue), ETS 300 019-2-1, Class 1.2 Storage, ETS 300 019-2-2, Class 2.3 Transportation, ETS 300 019-2-3, Class 3.2 Stationary, EN50121-4, EN 300 386
ROHS compliance	ROHS5

Product Comparison

Feature	C9407R	C9410R=	C9300-48P-E
Chassis Slots	7	10 (8 line, 2 supervisor)	Fixed (non-modular)
Supervisor Engine Slots	2	2	NA
Max Line Card Slots	5	8	N/A
Max System Bandwidth	9 Tbps	12 Tbps	448 Gbps
PoE Capability	Up to 2880W/slot, 90W/port	Up to 3840W/slot, 90W/port	740W total, 30W/port (PoE+)
Max 100G Uplinks	4	4	4 (via SFP+)



Feature	C9407R	C9410R=	C9300-48P-E
Access Port Density	384	480	48
High Availability Options	Dual supervisor, StackWise Virtual	Dual supervisor, StackWise Virtual	StackWise, Dual PSU
Integrated SD-Access	Yes	Yes	Yes
Management OS	Cisco IOS XE	Cisco IOS XE	Cisco IOS XE
Dimensions (H x W x D)	17.41 x 17.30 x 16.30 in	21.11 x 17.30 x 16.30 in	1.73 x 17.5 x 17.5 in

Accessories

Category	Accessories
Included Accessories	<ul style="list-style-type: none"> - AC Power Cord - Rack Mount Kit - Console Cable
Optional Accessories	<ul style="list-style-type: none"> - Supervisor Engines - Network Line Cards - SFP/SFP+ Optical Transceivers



Support & Warranty



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References

[1] Cisco Systems. (2023). Cisco Catalyst 9400 Series Switches Data Sheet. Retrieved from <https://www.cisco.com/c/en/us/products/collateral/switches/catalyst-9400-series-switches/nb-06-cat9400-ser-data-sheet-cte-en.html>