Cisco

C9407R-96U-BNDL-A

Datasheet

Product Overview

- Cisco Catalyst 9400 Series is the flagship modular enterprise access switch platform designed for transformative networking.

- This solution is ideal for businesses embracing hybrid work, IoT expansion, and cloud-based applications, catering to distributed enterprise campuses and branch offices.

- It features the latest UADP ASIC, up to 9 Tbps system bandwidth, and high-density 802.3bt PoE support for up to 384 access ports.

- Key innovations include StackWise Virtual with ISSU, dual-serviceable fan trays, redundant power, and up to 100G core uplinks for futureproof scalability.

- Centralized management and SD-Access enable simplified deployment, seamless policy automation, and unified wired and wireless control.

- The C9400 boosts security, agility, and operational efficiency, supporting diverse global enterprise scenarios seeking robust performance and investment protection.

Product Highlights

- **Programmable UADP ASIC Platform:** Offers a flexible, template-based allocation for Layer 2/3, ACL, and QoS, supporting next-generation network innovations.

- **High-Performance Intel x86 Architecture:** Integrated with a 2.4-GHz CPU and up to 960 GB SSD for advanced application hosting and high-speed processing.

- **Flexible High-Density Uplink Options:** Supports up to 4×100/40G, 4×25/10G, and 8×10G Ethernet uplinks for scalable bandwidth and diverse connectivity.

- **Maximized PoE/Multigigabit Capability:** Provides simultaneous PoE+ (30W), UPOE (60W), UPOE+ (90W) on 384 ports, ensuring reliable device power and flexible deployment.

Detailed Features

C9407R-96U-BNDL-A

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Component	Specification
Total Slots	7
Line-Card Slots	5
Supervisor Slots	2
Max Bandwidth per Slot	480 Gbps

High-Performance Modular Architecture

The Catalyst 9400 is engineered with a modular design, enabling flexibility to scale to varying network demands. It offers advanced UADP ASIC technology to deliver a programmable pipeline that can handle intensive Layer 2/3 forwarding, ACL, and QoS entries, addressing the evolving needs of modern enterprise networks in both campus access and aggregation scenarios.

Robust Supervisor and Redundancy Design

Supporting dual supervisor engines and N+N or N+1 redundant power supply options, the C9407R-96U-BNDL-A ensures uninterrupted operations. In-Service Software Upgrade (ISSU), Stateful SwitchOver (SSO), and Non-Stop Forwarding (NSF) provide high availability, which is essential for organizations that require continuous network uptime and service delivery.

Scalable Uplink and Port Density

With the capacity for up to 36×100G, 168×25G, and 384×10/100/1000M or 10G/5G/2.5G multigigabit ports, this model brings exceptional flexibility for aggregation and access. The availability of multiple port speeds and types enables diverse deployment, supporting high-performance edge and core network buildouts in large or mid-size campuses.

Advanced Power and PoE Support

Integrated support for Cisco UPOE+ (90W), UPOE (60W), and PoE+ (30W) on up to 384 ports means the switch can power a wide range of endpoints. This is ideal for extensive wireless deployments, surveillance nodes, and IoT devices at scale, with robust per-slot PoE budgets and centralized management.

Comprehensive Virtualization and Network Segmentation

Virtualization capabilities, such as robust SD-Access, device profiling, and scalable VRF instances, support secure micro-segmentation and group policy enforcement. This ensures differentiated user and device experiences without compromising security, and speeds up onboarding across enterprise environments.

Integrated Application Hosting and Telemetry

Local container-based application hosting with up to 960 GB SSD enables edge analytics, security monitoring, and flexible custom software operations. The solution features streaming telemetry and model-driven programmability through open IOS XE, enhancing visibility and automation.

Advanced Layer 3 Services and IPv6 Readiness

Dynamic hardware forwarding tables accommodate both IPv4 and IPv6 for seamless network migration. Support for scalable routing tables and comprehensive multicast capabilities make it fit for future-proof campus, branch, or hybrid enterprise deployments.

Unified Cloud and Campus Operations

Seamless integration with Cisco Networking Cloud and unified SD-Access brings centralized management, automated policy deployment, and end-to-end network transparency. ThousandEyes application visibility is included for comprehensive, actionable insights from campus to cloud.

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

Feature	Value
Number of power supply bays	8
AC input power	Yes
Integrated PoE	Yes
Power supplies supported	3200W AC, 2100W AC
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-96U-BNDL-A	C9410R	C9300L-48UXG4X-10A
Chassis Slots	7	10	Fixed (No chassis slots)
Line-Card Slots	5	8	Not Applicable (Fixed)
Supervisor Redundancy	Yes (2 slots)	Yes (2 slots)	No

Feature	C9407R-96U-BNDL-A	C9410R	C9300L-48UXG4X-10A
Uplink Options	Up to 4 × 100G QSFP28	Up to 8 × 100G QSFP28	4 × 40G/10G/1G SFP+
Maximum Downlink Ports	384 x 10G/5G/2.5G or 1G	480 x 10G or 1G	48 x MultiGig, 4 x 40G SFP+
PoE Power Budget per Slot	2880W	2880W	1440W
Integrated SD-Access	Yes	Yes	Yes
Stacking	StackWise Virtual	StackWise Virtual	StackWise-320
Typical Application	Access/Aggregation	Aggregation/Core	Access Layer/Edge

Accessories

Category	Accessories
Included Accessories	- Power Cable - Rack Mount Kit - Installation Guide
Optional Accessories	- Supervisor Engine Module - UPOE Line Card - SFP Transceiver

Support & Warranty

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References

[1] Cisco. (2023). Cisco Catalyst 9400 Series Switches Datasheet. 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