Cisco

C9404R-48U-BNDL-A

Datasheet

Product Overview

- The Cisco Catalyst 9400 Series positions itself as Cisco's top modular switching platform for enterprise access, part of the industry-leading Catalyst 9000 family.

- Tailored for businesses embracing security, IoT, mobile workforces, and cloud services, it serves offices, schools, campuses, and data centers.

- Built for demanding networks, it delivers up to 9 Tbps bandwidth and high-density PoE with support for 60W/90W IEEE 802.3bt across scalable access ports.

- Distinctive features include Cisco StackWise Virtual technology, seamless In-Service Software Upgrade (ISSU), and broad redundancy for uptime.

- Unified management and SD-Access functions provide automated device deployment and policy-based controls, enhancing operational simplicity.

- The C9400 Series empowers organizations to adapt fast, secure their users everywhere, and scale network services as business needs evolve.

Product Highlights

- **Next-Generation ASIC Architecture:** The Cisco UADP 3.0sec and 2.0 ASICs deliver advanced programmability, microengine functions, and template-based allocation for L2/L3, ACL, and QoS.

- **High-Performance Compute and Storage:** Features an Intel 2.4-GHz x86 CPU and up to 960 GB SATA SSD for local container application hosting, supporting modern network demands.

- **Extensive Uplink and Access Capacity:** Up to 4x100/40G, 4x25/10G, 392x10G SFP+ and 392x1G SFP ports for diverse aggregation and distribution scenarios.

- **Maximized PoE and Multigigabit Support:** Supports Cisco UPOE+/UPOE/PoE+ on up to 384 ports, full multigigabit RJ-45, and robust flow analysis with Line rate Flexible NetFlow (FNF).

Detailed Features

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Component	Specification
Access Ports	96 × 10/100/1000BASE-T (RJ-45)
Multigigabit Ports	48 × Cisco Multigigabit Ethernet (with UPOE)
PoE+/UPOE Capacity	96 × UPOE/PoE+ (90W/60W/30W)

Scalable High-Bandwidth Architecture

Cisco Catalyst 9400 Series features a modular chassis design supporting up to 9 Tbps system bandwidth, addressing bandwidth and scalability requirements of modern enterprises. The platform ensures future growth by enabling easy addition of line cards and supervisors, minimizing upgrade disruptions.

Extreme PoE and Multigigabit Capability

The switch delivers simultaneous PoE, UPOE, and UPOE+ power across all ports, up to 4800W per slot with high-density IEEE 802.3bt support. This accommodates large numbers of IoT, Wi-Fi 6/6E APs, and smart office devices without external power injectors.

Enhanced Supervisor Redundancy

With two dedicated supervisor engine slots (supporting C9400-SUP-1, -1XL, -1XL-Y), the device guarantees high availability through supervisor redundancy. SSO/NSF and N+1/N+N PSU redundancy protect against hardware and software faults.

Comprehensive Modular Connectivity

It supports a wide range of modules and media, including RJ-45, 1G/10G/25G/40G/100G SFP/SFP+/SFP28/QSFP28, and multigigabit copper. This modular approach allows custom configuration for access, aggregation, or core layers, fitting diverse topologies.

Flexible Software-Defined Capabilities

Supported by Cisco Networking Cloud and SD-Access, the switch automates deployment, orchestrates segmentation, and uses group-based policies. Integration with Cisco IOS XE OS enables real-time streaming telemetry, Python scripting, and application hosting.

Advanced Security Native to Hardware

Inline hardware defense mechanisms safeguard against evolving deep-packet attacks and Advanced Persistent Threats (APTs). Hardware-level ACLs and QoS with programmable ASIC pipelines enable policy enforcement at wire speed.

End-to-End Network Analytics

With Cisco ThousandEyes integration (via DNA licenses), users enjoy end-to-end visibility, performance assurance, and proactive troubleshooting from campus to cloud. This capability is vital for SLA-driven networks and remote work support.

Data Center and Campus-Optimized Design

Measuring ~16 depth, featuring dual-serviceable fan trays and side-to-side airflow, the chassis is designed for easy deployment in racks and shallow closets. It's suitable for data centers and distributed campuses in varied regions.

Technical Specifications

Product Specifications

Feature	Value
Product Description	Catalyst 9400 Series 4 slot, Sup, 1xC9400-LC-48U, DNA-A LIC
Dimensions (H x W x D)	1.73 x 17.5 x 17.7 inches
Rack Units (RU)	6RU
Total number of slots	4
Line-card slots	2
Supervisor engine slots	2
Slots 2 and 3 reserved for supervisor engines only	in Cisco Catalyst C9404R; slots 1 and 4 are reserved for line cards.
Dedicated supervisor engine slot numbers	2 and 3
Linecards not supported in Supervisor slots	Yes
Supervisor engine redundancy	Yes
Supervisor engines supported	C9400-SUP-1, C9400-SUP-1XL, C9400-SUP-1XL-Y

Feature	Value
Maximum PoE per slot	4320W
Max PoE as per current shipping linecard	chassis is capable of ~4800W PoE per slot.
Maximum Bandwidth scalability per line-card slot	Up to 480 Gbps on all slots
80Gbps per line-card slot when used with C9400-SUP-1	240Gbps per line-card slot with C9400-SUP-1XL, C9400-SUP-1XL-Y.
Number of power supply bays	4
AC input power	Yes
Integrated PoE	Yes
Power supplies supported	3200W AC, 2100W AC, 3200W DC
Number of fan-tray bays	1
Location of 19-inch rack-mount	Front
10/100/1000BASE-T Gigabit (RJ-45) ports	96
10/100/1000BASE-T Gigabit Ethernet with POE+ ports	96
Switched 10/100/1000BASE-T Gigabit Ethernet with UPOE ports	96
Switched 10 Gigabit Ethernet ports	48
Cisco Multigigabit Ethernet ports (with UPOE)	48
Switched 1 Gigabit Ethernet ports	96
802.3 BT Type 4 (90W) Ports	96

Product Comparison

Feature	C9404R-48U-BNDL-A	C9300L-48UXG2Q-10A	NVIDIA Mellanox MSN2700-CS2R
Switching Capacity	Up to 9 Tbps	320 Gbps	6.4 Tbps
Form Factor	Modular Chassis, 6RU	Fixed, 1RU	Fixed, 1RU
Access Ports	96 × 10/100/1000BASE-T (RJ-45)	48 × MultiGig (1/2.5/5/10GBASE-T)	32 × 100GbE QSFP28
PoE Capability	Up to 4800W per slot, IEEE 802.3bt (60W/90W)	UPOE/PoE+ (Full 90W across all ports)	No PoE support
Supervisor Redundancy	Dual active supervisor supported	Not supported	Not supported

Feature	C9404R-48U-BNDL-A	C9300L-48UXG2Q-10A	NVIDIA Mellanox MSN2700-CS2R
Uplink Types	4x100/40G QSFP28, 10G/25G SFP+ options	2 × 40G QSFP+, 2 × 25G SFP28	100GbE QSFP28
Software Supports	Cisco DNA/SD-Access, ThousandEyes, IOS XE	Cisco DNA/SD-Access, IOS XE	ONIE, Cumulus Linux, MLNX-OS
Suitable Usage	Enterprise campus core/ aggregation	Wired/Wireless high-density access	High-performance DC, Cloud, HPC

Accessories

Category	Accessories
Included Accessories	- Power Supply Module - Rack Mount Kit - Console Cable
Optional Accessories	- SFP/SFP+ Transceivers - Redundant Supervisor Engine - Power Expansion Module

Support & Warranty

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References

[1] Cisco Systems. (2024). 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