# Cisco

# C9200-24P-E

## Datasheet

# Product Overview

- Cisco Catalyst 9200 Series brings secure, always-on, and simplified network operations to enterprises and businesses.

- It is ideal for branch offices, distributed campuses, and organizations seeking scalable access solutions with robust reliability.

- Key performance features include 24 full PoE+ Gigabit Ethernet ports, modular uplink options, and 160 Gbps stacking bandwidth.

- Advanced security, seamless redundancy, and open programmability through Cisco IOS XE and UADP ASIC set it apart from competitors.

- Management is flexible—choose between CLI, Cisco Catalyst Center, or Meraki cloud dashboard, reducing deployment complexity efficiently.

- The C9200-24P-E simplifies IT, optimizes costs, and ensures secure, resilient connectivity—delivering value for dynamic, modern network demands.

# Product Highlights

- **24 Full PoE+ Ports:** Supports 24 Gigabit Ethernet PoE+ ports, providing robust power and data connectivity for IP phones, cameras, and wireless APs.

- **High Stacking Bandwidth:** Offers up to 160 Gbps stacking bandwidth, ensuring fast failover and higher scalability in demanding branch office environments.

- **Enhanced Security Features:** Protects hardware, software, and data with advanced security capabilities and trust anchor technologies.

- **Flexible Management Options:** Centralized CLI, Cisco Catalyst Center, and Meraki cloud monitoring support multiple operational needs and preferences.

# Detailed Features



C9200-24P-E

Quote | Help

| Component | Specification |
|---|---|
| Downlink Ports | 24 × 10/100/1000 PoE+ copper |
| PoE Support | 24 full PoE+ |
| Uplink Options | Modular uplink slots |
| Stacking Bandwidth | Up to 160 Gbps |
| Power Supply | PWR-C6-600WAC default (redundant supported) |

## Intent-Based Network Foundation

Catalyst 9200 extends Ciscos intent-based networking, using advanced automation and intelligence for secure, highly available operations. This reduces manual administrative tasks, enhances responsiveness to network events, and helps ensure optimal network performance in all scenarios.

## Enterprise-Grade Hardware and PoE+ Support

With 24 full PoE+ copper ports for converged voice, video, and wireless deployments, the C9200-24P-E meets the power and data needs of demanding enterprise networks. Modular uplinks provide flexibility, supporting a range of topologies and future bandwidth growth.

## Redundant Power and Fan Design

The model features a redundant power supply and fans, safeguarding your network from single points of failure. This architecture ensures continuous operations by minimizing downtime, which is essential for mission-critical branch and enterprise environments.

## Comprehensive Layer 3 and Switching Features

Support for Layer 3 routing, including static, OSPF, and BGP, delivers seamless transitions between network segments. Switching capacity of 128 Gbps and forwarding rate of 190.4 Mpps provide the foundation for high-performance data environments and rapid packet delivery.

## Advanced Security and Trust Anchors

Catalyst 9200 employs hardware-based security and software integrity features that protect both infrastructure and data. The switch leverages trust anchor technologies to defend against tampering, unauthorized access, and advanced cyber threats.

## Open Programmability and APIs

Cisco IOS XE and UADP ASIC programmability means open APIs are fully available for automating processes and integrating with third-party solutions. This future-proofs investments, ensuring adaptability to evolving business requirements.

## Flexible Network Management

Administrators can utilize the command-line interface, on-premises Cisco Catalyst Center, or monitor via Meraki dashboard. This flexibility accelerates deployment, simplifies troubleshooting, and provides oversight tailored to any IT skill level or organizational policy.

## Optimized for Modern Workplace Evolution

By enabling cost-effective scalability, robust access, and simplified management, the C9200-24P-E is designed for modern digital workplaces. It addresses the connectivity, security, and reliability needs of growing enterprises in a single, future-ready platform.

# Technical Specifications

## Product Specifications

| Feature | Value |
|---|---|
| Downlinks total 10/100/1000 or PoE+ copper ports | 24 ports full PoE+ |
| Uplink configuration | Modular uplink options |
| Default primary AC power supply | PWR-C6-600WAC |
| Fans | FRU redundant |
| Software | Network Essentials |
| Chassis Dimensions | 1.73 x 17.5 x 13.8 in (4.4 x 44.5 x 35.0 cm) |
| Virtual Networks | 4 |
| Stacking bandwidth | 160 Gbps |
| Total number of MAC addresses | 32,000 |
| Total number of IPv4 routes (ARP plus learned routes) | 14,000 (10,000 direct routes and 4,000 indirect routes) |
| IPv4 routing entries | 4,000 |

| Feature | Value |
|---|---|
| IPv6 routing entries | 2,000 |
| Multicast routing scale | 1,000 |
| QoS scale entries | 1,000 |
| ACL scale entries | 1,600 |
| Packet buffer per SKU | 6 MB buffers for 24- or 48-port Gigabit Ethernet models |
| Flexible NetFlow (FNF) entries | 16,000 flows on 24- and 48-port Gigabit Ethernet models |
| DRAM | 4 GB |
| Flash | 4 GB |
| VLAN IDs | 4096 |
| Total Switched Virtual Interfaces (SVIs) | 1,000 |
| Jumbo frames | 9,198 bytes |
| Wireless bandwidth per switch | Up to 48 Gbps on 24-port and 48-port Gigabit Ethernet model |
| Switching capacity | 128 Gbps |
| Forwarding rate | 190.4 Mpps |
| Mean time between failures (hours) | 422,310 |

## Product Comparison

| Feature | C9200-24P-E | C9200L-24P-4X-A | C9500-40X-E |
|---|---|---|---|
| Downlink Ports | 24 × 10/100/1000 PoE+ | 24 × 10/100/1000 PoE+ | 40 × 10G SFP+ |
| Uplink Options | Modular | 4 × 10G SFP+ fixed | Fixed, 10G/40G |
| PoE Power | Full PoE+ on all 24 ports | Full PoE+ on all ports | No PoE |
| Stacking Bandwidth | 160 Gbps | 80 Gbps | 480 Gbps |
| Layer 3 Functions | Enhanced, OSPF/BGP static | Enhanced, OSPF/BGP static | Advanced, OSPF/BGP/ISIS |
| Switching Capacity | 128 Gbps | 104 Gbps | 960 Gbps |
| Redundant Power | Supported | Supported | Supported |

| Feature | C9200-24P-E | C9200L-24P-4X-A | C9500-40X-E |
|---|---|---|---|
| Management Interface | CLI, Catalyst Center, Meraki | CLI, Catalyst Center, Meraki | CLI, Catalyst Center, DNA Advantage |
| Typical Scenario | Branch/Campus Access | Branch/Campus Access | Large core/aggregation |

## Accessories

| Category | Accessories |
|---|---|
| Included Accessories | - Power Adapter<br>- Mounting Kit<br>- Console Cable |
| Optional Accessories | - SFP Uplink Module<br>- Redundant Power Supply<br>- Rack Mount Shelf |

## Support & Warranty

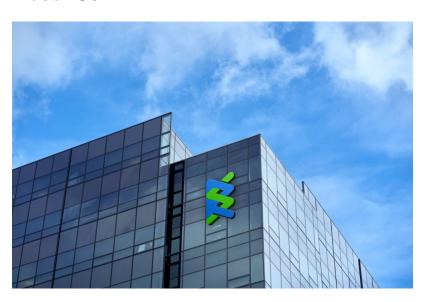| 24/7 Online Service | 3-Year Premium Warranty | Professional Technical Support | 100% Low Price Guarantee | 100% Quality Assurance | 100% Money Back Guarantee |

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Global Warehouses & Service Centers Across Continents.



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## Shenzhen Branch

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## UK Branch

Third Floor, 207 Regent Street, London W1B 3HH, UK

# References

[1] Cisco. (2023). Catalyst 9200 Series Switches Data Sheet. Retrieved from https://www.cisco.com/c/en/us/products/collateral/switches/catalyst-9200-series-switches/nb-06-cat9200-ser-data-sheet-cte-en.html