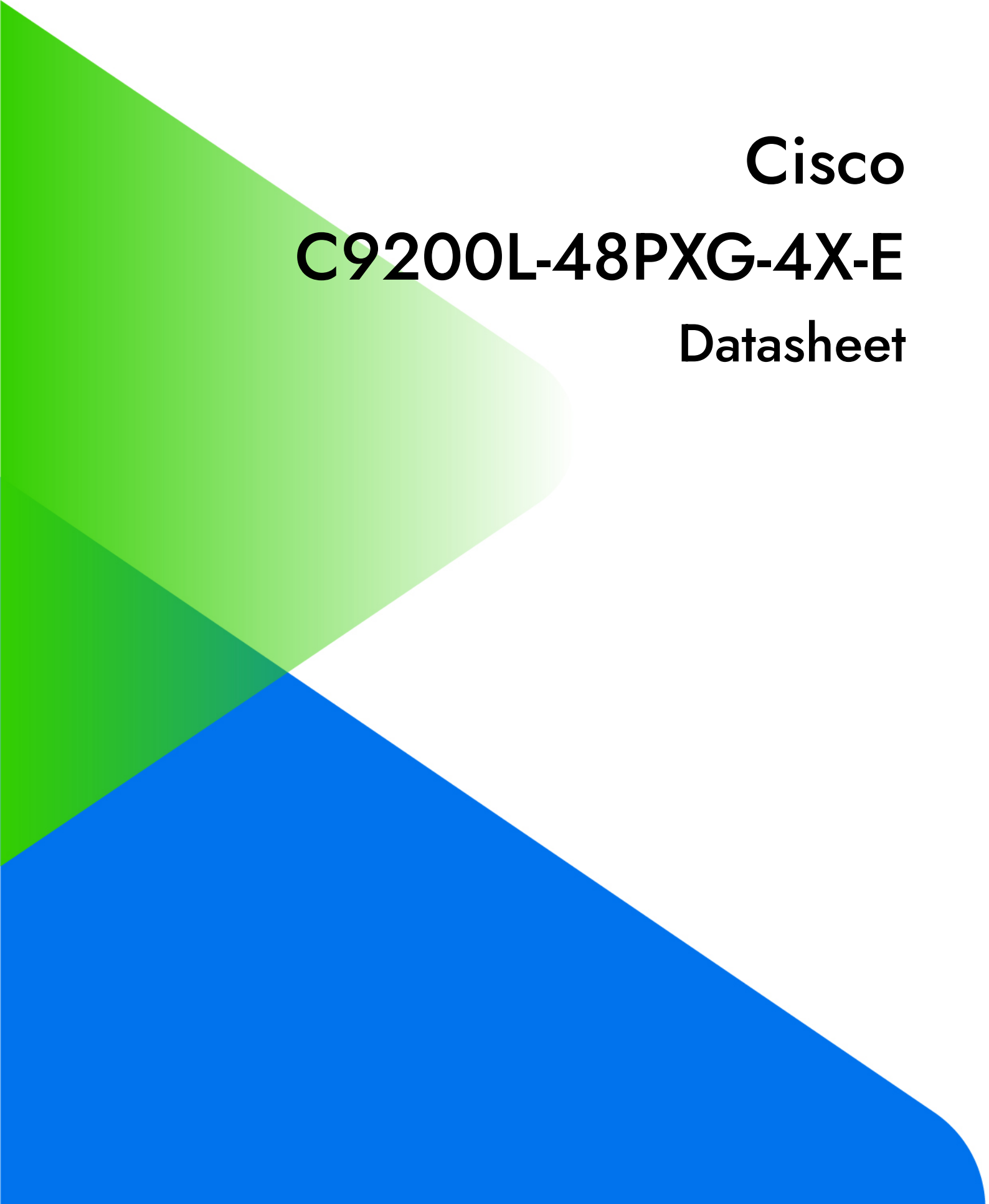




Cisco

C9200L-48PXG-4X-E

Datasheet



Product Overview

- Cisco continues its legacy of networking innovation with the Catalyst 9200L Series, positioning the C9200L-48PXG-4X-E as a next-generation Layer 3 switch.
- This switch is ideal for medium to large enterprises, managed service providers, and distributed branch deployments seeking reliable high-performance access.
- With 48 full PoE+ ports including 12 mGig (up to 10G each) and 4 x 10G fixed uplinks, it ensures scalable bandwidth and robust hardware efficiency.
- Features like advanced QoS, rich Layer 3 routing, and support for flexible NetFlow unify seamless device provisioning and traffic management.
- Centralized software tools and fixed redundant fans deliver streamlined operations and help simplify troubleshooting and maintenance tasks.
- For organizations seeking high-density user access, assured power delivery, and future-ready wired infrastructure, this switch is a proven investment.

Product Highlights

- **Full mGig and PoE+ Access:** 12 mGig (up to 10G) and 36 1G PoE+ ports enable powerful device connectivity for diverse endpoints and high-speed wireless backhaul.
- **Fixed High-Bandwidth Uplinks:** 4 x 10G SFP+ uplinks ensure seamless aggregation, futureproofing the campus and branch network core.
- **Advanced Network Essentials:** The embedded Network Essentials software unlocks enhanced routing, security, and automation capabilities out-of-the-box.
- **Redundant Power and Fans:** Default 1KW AC supply and fixed redundant fans maintain continuous network operation and high availability.

Detailed Features



C9200L-48PXG-4X-E

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Component	Specification
Total Ports	48 full POE+
mGig Ports	12 (up to 10G per port)
Standard Ports	36 (up to 1G per port)
Uplinks	4 x 10G fixed uplinks
Power Supply	Default primary AC power supply (PWR-C5-1KWAC)



Superior Multigigabit Access

12 mGig ports (up to 10G), with 48 total PoE+ ports, provide unmatched flexibility for Wi-Fi 6/6E APs and next-gen endpoints, meeting demanding bandwidth and power requirements on a single switch platform.

Robust PoE+ Power Delivery

This switch delivers high PoE+ power budgets across all 48 ports, making it perfect for modern IP phones, security cameras, and wireless access infrastructure that demand consistent power at optimal performance.

Dedicated High-Speed Uplinking

Four fixed 10G SFP+ uplinks enable effortless backbone aggregation. This high uplink capacity removes bottlenecks and streamlines traffic from dense edge networks to your aggregation layer.

Enterprise-Grade Redundancy

A default 1KW AC power supply and fixed redundant fan design ensure high hardware availability, reducing chances of downtime during daily operations or unexpected power and cooling events.

Comprehensive Routing Features

Supporting 11,000 IPv4 routes, 3,000 IPv4/1,500 IPv6 routing entries, and advanced multicast, the switch handles complex enterprise routing and scales to diverse network growth scenarios.

Flexible NetFlow Support

The ability to manage 16,000 FNF entries empowers deep visibility, granular traffic analysis, and sophisticated performance monitoring to optimize application delivery and user experience.

Efficient Management and Operations

Unified management via Network Essentials software simplifies provisioning, configuration, and monitoring, while up to 512 SVIs and 1024 VLANs enable robust logical segmentation across large networks.

High System Reliability

The switch is engineered for endurance, rated for 337,360 hours MTBF and delivering a switching capacity up to 392 Gbps and forwarding rate at 291.66 Mpps, warranting long-term mission-critical deployment.

Technical Specifications

Product Specifications

Feature	Value
Downlinks total 10/100/1000 or PoE+ copper ports	Yes
48 ports full POE+ (12 mGig ports up to 10G, 36 ports up to 1G)	Yes
Uplink configuration	4x 10G fixed uplinks
Default primary AC power supply	PWR-C5-1KWAC
Fans	Fixed 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	1
Stacking bandwidth	80 Gbps
Total number of MAC addresses	16,000
Total number of IPv4 routes	11,000 (8,000 direct routes and 3,000 indirect routes)
IPv4 routing entries	3,000
IPv6 routing entries	1,500
Multicast routing scale	1,000



Feature	Value
QoS scale entries	1,000
ACL scale entries	1,500
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	2 GB
Flash	4 GB
VLAN IDs	1024
Total Switched Virtual Interfaces (SVIs)	512
Jumbo frames	9198 bytes
Wireless bandwidth per switch	N/A
Switching capacity	392 Gbps
Forwarding rate	291.66 Mpps
Mean time between failures (hours)	337,360
Get more information	

Product Comparison

Feature	C9200L-48PXG-4X-E	C9300L-48UXG2Q-10A	C9500-16X-E
Total Ports	48 (PoE+, 12 mGig up to 10G, 36 up to 1G)	48 (48 mGig, PoE+, 2x 40G or 4x 25G/10G uplinks)	16 x 10G (fixed)
Uplink Ports	4 x 10G SFP+	2 x 40G QSFP+/4 x 25G SFP28	16 x 10G SFP+
PoE+ Power	Yes, all 48 ports	Yes, all 48 ports	No PoE support
Switching Capacity	392 Gbps	904 Gbps	480 Gbps
Forwarding Rate	291.66 Mpps	672 Mpps	360 Mpps
Stacking Bandwidth	80 Gbps	320 Gbps	480 Gbps
MAC Address Table	16,000	32,000	64,000
Routing Capacity	11,000 IPv4 routes	32,000 IPv4/IPv6	96,000 IPv4, 48,000 IPv6



Feature	C9200L-48PXG-4X-E	C9300L-48UXG2Q-10A	C9500-16X-E
Redundant Power/Fans	Yes (fixed, built-in)	Yes (hot swappable)	Yes (hot swappable)
Management Software	Network Essentials	Network Advantage	Network Advantage
Application Scenario	High-density branch/Core access	Core/large campus, high-performance	Aggregation/core, campus/enterprise

Accessories

Category	Accessories
Included Accessories	- Power Adapter - Mounting Brackets - Quick Installation Guide
Optional Accessories	- SFP+ Transceiver Modules - Redundant Power Supply - Stack Cables



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References

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