# Cisco

C1000-24P-4G-L

Datasheet

Product Overview

- Cisco Catalyst 1000 Series is a renowned line of fixed managed Layer 2 switches from Cisco, designed for SMB and branch networks.

- These switches are ideal for small businesses, retail stores, schools, and distributed offices requiring reliable wired infrastructure.

- With 24 Gigabit Ethernet PoE+ ports and 4 dedicated SFP uplinks, it delivers strong switching capacity and seamless connectivity.

- Enhanced security and flexible management features, such as CLI access and embedded web UI, distinguish this model in its class.

- Easy deployment, user-friendly management, and IoT readiness reduce operational complexity while increasing network efficiency.

- Suited for expanding enterprises, the C1000-24P-4G-L supports secure, always-on network performance for demanding professional environments.

Product Highlights

- **Versatile Port Options:** Choose from multiple port densities including 8, 16, 24, or 48 Gigabit Ethernet ports and optional PoE+ support for maximum flexibility.

- **High PoE+ Power Budget:** Supports up to 740W of perpetual PoE+ across ports, enabling seamless power for IP phones, cameras, and access points.

- **Robust Security and Reliability:** 802.1X, BPDU Guard, and advanced monitoring tools provide enhanced protection for connected devices and the entire network.

- **Simplified Management:** Flexible management via both CLI and intuitive web UI ensures hassle-free installation and ongoing administration.

Detailed Features
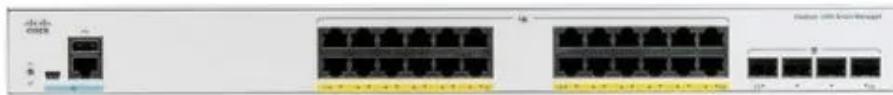
C1000-24P-4G-L

Component	Specification
Ports	24 × 10/100/1000BASE-T PoE+ (RJ45)
Uplinks	4 × SFP Uplinks (1000BASE-X)
Switching Capacity	56 Gbps (1G) / 128 Gbps (10G)
Forwarding Rate	41.67 Mpps
PoE Budget	195 W (total)

Diverse Port Configurations

Cisco Catalyst 1000 Series switches offer configurations with 8, 16, 24, or 48 Gigabit or Fast Ethernet ports, including PoE+ options, ensuring flexibility for various network scales. All ports support line-rate forwarding, allowing businesses to expand their networks efficiently as demands grow.

Flexible Uplink Choices

Supporting 2 or 4 fixed 1GbE SFP/RJ-45 Combo uplinks (for 8-port models), 4 × 10GbE SFP+ uplinks on Gigabit models, and versatile uplinks on Fast Ethernet models, the C1000-24P-4G-L provides robust connectivity for high-speed aggregation and flexible backbone integration in multi-tier networks.

Extended PoE+ Capabilities

With perpetual PoE+ support and up to 740W of total power budget, this switch can power IP phones, wireless APs, surveillance cameras, and IoT devices, even during reboot cycles, ensuring uninterrupted service and enhancing overall network stability for power-reliant deployments.

Intuitive Management Options

Cisco offers straightforward management through a CLI and a modern, device-based web UI. These streamlined interfaces enable IT staff to deploy, configure, and monitor switches with minimal training, reducing setup time and simplifying troubleshooting.

Advanced Network Monitoring

Built-in sFlow capabilities allow real-time network traffic monitoring and analytics, improving visibility over data flows and helping network administrators quickly identify and respond to emerging issues on wired or converged networks.

Enterprise-Grade Security

Features such as IEEE 802.1X for device authentication, Switched Port Analyzer (SPAN) for mirrored traffic analysis, and BPDU Guard for loop prevention reinforce network protection, making it suitable for environments with strict security needs.

Compact, Innovative Design

Available as fanless models with a chassis depth under 13 inches (33 cm), Cisco Catalyst 1000 switches enable silent operation and space-saving deployment in offices, commercial spaces, or tight equipment rooms, meeting the needs of modern workplaces.

Enhanced Device Management

Support for Bluetooth device management, Simple Network Management Protocol (SNMP), and convenient RJ-45 console access ensures smooth operations, easy backups, and seamless integration with monitoring or automation platforms, improving network lifecycle management.

Technical Specifications

Product Specifications

Feature	Value
Series	Catalyst 1000 Series
Form Factor	Fixed-configuration, rack-mountable (1RU)
Port Configuration	24 × 10/100/1000BASE-T PoE+ (RJ45)
Uplinks	4 × SFP Uplinks (1000BASE-X)
Switching Capacity (1G)	56 Gbps
Switching Capacity (10G)	128 Gbps
Forwarding Rate	41.67 Mpps (64-byte L3 packets)
MAC Address Table	16,000 entries
Active VLANs	256
VLAN IDs	4,094
IPv4 Routes (Direct)	542
IPv4 Routes (Indirect)	256

Feature	Value
IPv6 Routes (Direct)	414
IPv6 Routes (Indirect)	128
PoE Standards	IEEE 802.3af (15.4W/port)
PoE Standards	IEEE 802.3at (30W/port)
Max PoE Budget	195 W (total)
PoE Power Supply	Internal (auto-sensing 110-220V AC)
CPU	ARM v7
CPU Speed	800 MHz
DRAM	512 MB
Flash Memory	256 MB
Management Interfaces	1 × RJ-45 console
Management Interfaces	1 × USB-A (storage/Bluetooth)
SPAN Sessions	4 (ingress/egress)
Security ACLs (IPv4/MAC ACEs)	600
Security ACLs (IPv6 ACEs)	600
Supported Protocols	SNMP v1/v2c/v3
Supported Protocols	IEEE 802.1X
Supported Protocols	LLDP
Supported Protocols	CDP
Dimensions (W × D × H)	17.29 in × 16.14 in × 1.712 in
Dimensions (W × D × H)	43.92 cm × 40.99 cm × 4.45 cm
Operating Temperature (Min)	32°F (0°C)
Operating Temperature (Max)	104°F (40°C)
Operating Humidity (Min)	10% non-condensing
Operating Humidity (Max)	90% non-condensing
Operating Altitude (Max)	10,000 ft (3,000 m)
Power Consumption (Idle - PoE)	14.64 W
Power Consumption (10% traffic)	16.56 W
Power Consumption (100% traffic)	16.92 W
Power Consumption (Weighted Avg)	16.04 W

Feature	Value
Minimum IOS Version	Cisco IOS 15.2(7)E4 or later
Management Options	Cisco DNA Center
Management Options	CLI
Management Options	Web UI
Certifications	UL 60950-1
Certifications	EN 60950-1
Certifications	FCC Part 15 Class A
Certifications	EN55032

Product Comparison

Feature	C1000-24P-4G-L	OS6450-U24S	JL668A
Port Count	24 × 10/100/1000BASE-T PoE+ (RJ45), 4 × SFP	24 × 10/100/1000BASE-T, 2 × SFP	24 × 10/100/1000BASE-T, 4 × SFP
Switching Capacity	56 Gbps (1G) / 128 Gbps (10G)	68 Gbps	56 Gbps
PoE Budget	195 W	370 W	370 W
Management Interface	CLI, Web UI, SNMP, Bluetooth, RJ-45 console	CLI, Web, SNMP	CLI, Web, SNMP
Layer 2/3 Support	Layer 2 only	Layer 2 only	Layer 2 only
Fan Design	Fanless (select models)	Fanless	Fanless
Dimensions (W × D × H)	17.29 × 16.14 × 1.712 in	17.3 × 8.7 × 1.7 in	17.32 × 8.23 × 1.73 in
Operating Temperature	32°F to 104°F (0°C to 40°C)	32°F to 122°F (0°C to 50°C)	32°F to 113°F (0°C to 45°C)

Accessories

Category	Accessories
Included Accessories	- Power Adapter - Mounting Kit - Quick Start Guide
Optional Accessories	- SFP Transceiver - Console Cable - PoE Injector

Support & Warranty

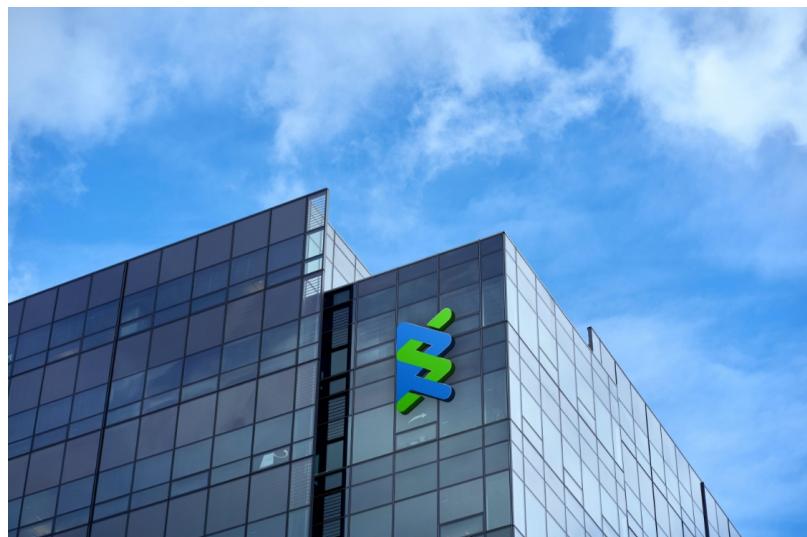| 24/7 Online Service | 3-Year Premium Warranty | Professional Technical Support | 100% Low Price Guarantee | 100% Quality Assurance | 100% Money Back Guarantee |

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Global Branches

Headquarters (Hong Kong)

Rm 605, 6/F, Fa Yuen Comm Bldg, 75-77 Fa Yuen St, Mongkok, Kowloon, Hong Kong, China

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Shenzhen Branch

Jingfeng Building, 1001 Shangbu South Road, Futian District, Shenzhen, China

UK Branch

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

References

[1] Cisco. (2023). Cisco Catalyst 1000 Series Switches Datasheet. Retrieved from https://www.cisco.com/c/en/us/products/collateral/switches/catalyst-1000-series-switches/nb-06-cat1k-ser-switch-ds-cte-en.html