



# Cisco

# C1000-24T-4G-L

## Datasheet



## Product Overview

- Cisco's Catalyst 1000 Series stands for reliable, managed enterprise Layer 2 switches, engineered for essential network connectivity.
- Ideal for small offices, retail, hospitality, and branch environments, these switches serve growing businesses and distributed deployments.
- The C1000-24T-4G-L features 24 Gigabit RJ45 ports, 4 SFP uplinks, 56 Gbps switching, and a forwarding rate of 41.67 Mpps.
- It delivers hardware-enhanced security, with 802.1X device authentication and efficient monitoring through sFlow and SPAN.
- Deployment is simplified with Cisco IOS, intuitive web UI, CLI, and Bluetooth management—reducing operational burden.
- For network integrators and SMBs, Catalyst 1000 enables secure, scalable, and easy-to-manage campus or edge networking.

## Product Highlights

- **Resilient Gigabit Access:** 24 × 10/100/1000BASE-T ports support high-speed data transfer for consistent access in growing business setups.
- **Flexible Uplink Options:** 4 fixed SFP uplinks enable seamless uplink to aggregation or core switches, supporting scalable network expansion.
- **Enhanced Device Security:** Supports 802.1X authentication, BPDU Guard, and SPAN for strong endpoint protection and network defense.
- **Easy Management & Monitoring:** Offering CLI, web UI, and Bluetooth, it ensures intuitive network operation and simplified on-site diagnostics.

## Detailed Features



### C1000-24T-4G-L

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Component	Specification
Switch Ports	24 × 10/100/1000BASE-T (RJ45, non-PoE)
Uplink Ports	4 × SFP (1000BASE-X)
Switching Capacity	56 Gbps
Forwarding Rate	41.67 Mpps
Management Interface	RJ-45 console, USB-A, Web UI



Comprehensive Gigabit Access

The C1000-24T-4G-L enables businesses to deploy 24 non-PoE Gigabit Ethernet ports for seamless LAN user and device connections. With full wirespeed forwarding performance, even high-traffic scenarios receive low-latency and stable access, crucial for branch and SMB growth.

Flexible Uplink Design

Equipped with 4 dedicated SFP uplink ports, this model easily interfaces with distribution and aggregation layers, or connects to core networks. This ensures flexible scaling, smooth fiber uplink, and cost-effective integration into existing network backbones.

Security-Focused Features

Robust network protection is built-in, including 802.1X port security, BPDU Guard, and Switched Port Analyzer (SPAN). Together with security ACLs, these controls secure edge ports and maintain compliance for devices such as workstations and IoT endpoints.

Streamlined Management Options

The device provides multiple management paths: classic CLI, modern web UI, and even Bluetooth console access. This multi-channel access simplifies daily tasks and makes operations easier for new IT staff and remote teams.

Efficient Monitoring Capabilities

Supporting native sFlow and SPAN, administrators get access to granular traffic visibility. These features enable accurate diagnostics, performance analysis, and proactive response to potential network issues, reducing downtime.

Compact & Fanless Operation

With select variants supporting fanless operation under 13 inches depth, deployments are possible even in quiet or space-constrained areas like retail counters or wall-mount racks, with virtually silent running and less heat.

IoT & SMB Ready

Catalyst 1000 accommodates diverse deployment needs including critical IoT, point of sale, and remote office scenarios with enterprise-level reliability and plug-and-play installation, making network scaleout quick, secure, and predictable.

Reliable Performance & Warranty

With a high Mean Time Between Failures and Enhanced Limited Lifetime Warranty (E-LLW), the switch delivers trustworthy service in demanding environments, while Cisco worldwide support delivers peace of mind for years ahead.

Technical Specifications

Product Specifications

Feature	Value
Series	Cisco Catalyst 1000 Series
Form Factor	Fixed, rack-mountable (1RU)
Port Configuration	24 × 10/100/1000BASE-T (RJ45, non-PoE)
Uplink Ports	4 × SFP (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
CPU	ARM v7
CPU Frequency	800 MHz
DRAM	512 MB



Feature	Value
Flash Memory	256 MB
IPv4 Routing (Direct)	542
IPv4 Routing (Indirect)	256
IPv6 Routing (Direct)	414
IPv6 Routing (Indirect)	128
Management Interfaces	1 × RJ-45 console port
USB Port	1 × USB-A (storage/Bluetooth console)
SPAN Sessions	4 (ingress/egress)
Security ACLs IPv4/MAC ACEs	600
Security ACLs IPv6 ACEs	600
Supported Protocols	SNMP v1/v2c/v3, IEEE 802.1X, LLDP, CDP
Dimensions (W × D × H)	17.29 in × 16.14 in × 1.712 in (43.92 cm × 40.99 cm × 4.45 cm)
Operating Temperature Min	32°F (0°C)
Operating Temperature Max	104°F (40°C)
Humidity Range	10% to 90% non-condensing
Altitude	Up to 10,000 ft (3,000 m)
Power Input	110–220V AC (auto-sensing)
Power Consumption Idle	14.52W
Power Consumption 10%	16.44W
Power Consumption 100%	16.68W
Power Consumption Avg	15.88W
Minimum IOS Version	Cisco IOS 15.2(7)E4 or later
Management Options	Cisco DNA Center, CLI, Web UI
Certifications (Safety)	UL 60950-1, EN 60950-1
Certifications (EMC)	FCC Part 15 Class A, EN55032



## Product Comparison

Feature	C1000-24T-4G-L	C1-C2960X-24TD-L	C1000-48T-4G-L
Port Count	24 × 10/100/1000BASE-T + 4 × SFP	24 × 10/100/1000BASE-T + 2 × SFP + 2 × 10G SFP+	48 × 10/100/1000BASE-T + 4 × SFP
Switching Capacity	56 Gbps (1G) / 128 Gbps (10G)	216 Gbps	104 Gbps (1G) / 176 Gbps (10G)
Forwarding Rate	41.67 Mpps	107.1 Mpps	77.38 Mpps
PoE Support	Non-PoE	Optional PoE/PoE+ models available	Non-PoE
Management	Web UI, CLI, Cisco DNA Center	Web UI, CLI	Web UI, CLI, Cisco DNA Center
MAC Address Table	16,000 entries	16,000 entries	16,000 entries
Layer 3 Routing	Static, IPv4/IPv6	Static, IPv4/IPv6	Static, IPv4/IPv6
Fan Design	Fixed, fanless	Fan tray, field-replaceable	Fanless (select models)
Target Scenario	SMB/Branch, noiseless deployments	Enterprise & branch, stacking-ready	Medium offices needing more ports

## Accessories

Category	Accessories
Included Accessories	<ul style="list-style-type: none"> <li>- Power Adapter</li> <li>- Mounting Brackets</li> <li>- Quick Installation Guide</li> </ul>
Optional Accessories	<ul style="list-style-type: none"> <li>- SFP Transceiver</li> <li>- Console Cable</li> <li>- Rack Mount Kit</li> </ul>



## Support & Warranty



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### References

[1] Cisco. (2023). Cisco Catalyst 1000 Series Switches Data Sheet. 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>