



# Cisco

# C1000-48T-4G-L

## Datasheet



## Product Overview

- The Cisco Catalyst 1000 Series is a family of fixed, managed Layer 2 switches for small businesses and branch sites.
- These switches are ideal for small offices, distributed branches, retail outlets, or IoT-focused deployments that require reliable networking.
- With 48 Gigabit RJ45 ports and 4 SFP uplinks, powerful forwarding rates, and a 176 Gbps switching capacity, it supports fast and stable network access.
- Key features include simplified management with CLI and intuitive web UI, as well as advanced network security and sFlow-based monitoring.
- Flexible deployment is enabled by quiet, compact fanless models, as well as device management via Bluetooth and SNMP for easy configuration.
- Cisco Catalyst 1000 enhances business continuity, data security, and ease of use for modern small business and branch office networks.

## Product Highlights

- **Versatile Port Configuration:** Supports up to 48 Gigabit Ethernet ports and 4 SFP uplinks for flexible network expansion and connectivity.
- **Comprehensive Security Features:** 802.1X, Switched Port Analyzer (SPAN), and BPDU Guard strengthen access security and help prevent unauthorized network threats.
- **Intuitive Management Options:** Offers both CLI and on-box web UI management, plus SNMP and Bluetooth device management for simple deployment.
- **Compact and Reliable Design:** Fanless models available, enhanced MTBF, and robust warranty ensure reliability even in demanding environments.

## Detailed Features



C1000-48T-4G-L

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Component	Specification
Switching Capacity	176 Gbps
Forwarding Rate	130.94 Mpps
Ports	48 × 10/100/1000BASE-T (RJ45), 4 × SFP uplinks (1000BASE-X)
CPU	ARM v7, 800 MHz
Management	CLI, Web UI, SNMP, Bluetooth Console



## High-Density Gigabit Ports

Cisco Catalyst 1000 Series offers up to 48 10/100/1000BASE-T RJ45 ports and four 1G SFP uplinks. This provides scalable and flexible wired network access for diverse business needs, supporting bandwidth-intensive devices and applications in growing enterprises and high-density deployments.

## Flexible Uplink and PoE+ Options

Depending on model, up to four fixed 1G SFP or combo uplinks are available, supporting high-speed interconnection to core switches. Perpetual PoE+ support (up to 740W) allows the switch to power access points, IP cameras, and IoT sensors, enabling both data and power delivery through one device.

## Advanced Security Capabilities

Integrated 802.1X, SPAN, and BPDU Guard technologies enhance endpoint authentication and protect against layer 2 attacks. These features, alongside strong access control, help businesses maintain data protection, compliance, and reliable network segmentation.

## Enhanced Network Monitoring

Sampled flow (sFlow) enabled network monitoring provides administrators with valuable visibility into traffic patterns, capacity planning, and troubleshooting. This empowers IT teams to manage bandwidth usage proactively and to ensure optimal network performance.

## Intuitive Management Experience

Administrators can manage devices locally via intuitive on-box web UI or with Cisco IOS CLI for advanced configurations. Devices support SNMP-based network management and configuration through mobile Bluetooth console, ensuring flexibility and efficiency in deployments.

## Compact, Silent Operation

The Catalyst 1000 includes compact, fanless models with a depth under 13 inches, allowing for quiet deployment in office or space-constrained environments. This meets requirements for silent operation in retail, hospitality, or small office settings.

## Impressive Reliability

The platform features a higher Mean Time Between Failures (MTBF), robust hardware architecture, and is backed by Cisco's enhanced limited lifetime warranty (E-LLW). This ensures stable, long-term network service with reduced risk of unplanned downtime.

## IoT-Ready Edge Switching

The Catalyst 1000 is optimized for IoT integrations, making it a strong choice for connecting a growing number of converged endpoints, such as sensors, cameras, and smart devices, while maintaining security and dependable performance at the network edge.

# Technical Specifications

## Product Specifications

Feature	Value
Series	Cisco Catalyst 1000 Series
Port Configuration	48 × 10/100/1000BASE-T (RJ45), 4 × SFP uplinks (1000BASE-X)
Form Factor	Fixed-configuration, rack-mountable (1RU)
Switching Capacity	176 Gbps
Forwarding Rate	130.94 Mpps (64-byte L3 packets)
MAC Address Table	16,000 entries
VLAN Support	256 active VLANs, VLAN IDs 4,094
IPv4 Routing	542 direct routes, 256 indirect routes
IPv6 Routing	414 direct routes, 128 indirect routes
CPU	ARM v7, 800 MHz
DRAM	512 MB



Feature	Value
Flash Memory	256 MB
Dimensions (W×D×H)	17.29 in × 16.14 in × 1.712 in (43.92 cm × 40.99 cm × 4.45 cm)
Operating Temperature	32°F to 104°F (0°C to 40°C)
Operating Humidity	10% to 90% (non-condensing)
Operating Altitude	Up to 10,000 ft (3,000 m)
Power Input	110–220V AC (auto-sensing)
Power Consumption	Idle: 27.37W, 10% Traffic: 41.57W, 100% Traffic: 53.66W, Weighted Avg: 40.87W
Acoustic Noise	31.5 dB (typical at 25°C ambient)
Management Interfaces	1 × RJ45 console port, 1 × USB-A (storage/Bluetooth console)
SPAN Sessions	4 (ingress/egress)
Security ACLs	IPv4/MAC ACEs: 600, IPv6 ACEs: 600
Supported Protocols	SNMP v1/v2c/v3, IEEE 802.1X, LLDP, CDP
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; EMC: FCC Part 15 Class A, EN55032

## Product Comparison

Feature	C1000-48T-4G-L	C1-WS3650-48TS/K9	OS6350-48
Port Configuration	48 × 10/100/1000BASE-T, 4 × SFP (1G)	48 × 10/100/1000BASE-T, 4 × 1G SFP	48 × 10/100/1000BASE-T, 4 × 1G SFP
Switching Capacity	176 Gbps	176 Gbps	176 Gbps
Forwarding Rate	130.94 Mpps	130.95 Mpps	130 Mpps
PoE Capability	No PoE	PoE Supported	PoE Optional
Stacking Support	No	StackWise Stacking Supported	No
Management	CLI, Web UI, SNMP, Bluetooth	CLI, Web UI, SNMP	CLI, Web, SNMP



Feature	C1000-48T-4G-L	C1-WS3650-48TS/K9	OS6350-48
Layer 3 Routing	IPv4/IPv6, Static	IPv4/IPv6, Static & Dynamic	IPv4/IPv6, Static
Form Factor	1RU, Rack-mountable	1RU, Rack-mountable	1RU, Rack-mountable

## Accessories

Category	Accessories
Included Accessories	<ul style="list-style-type: none"><li>- Power Cord</li><li>- Rack Mount Kit</li><li>- Quick Start Guide</li></ul>
Optional Accessories	<ul style="list-style-type: none"><li>- SFP Transceiver</li><li>- USB Console Cable</li><li>- Cable Management Kit</li></ul>



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## Global Footprint

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. (2024). 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>