



Cisco

C1000-24T-4X-L

Datasheet



Product Overview

- Cisco Catalyst 1000 Series Switches represent Cisco's commitment to bringing reliable, high-performance networking to small business and branch office environments.
- They are purpose-built for small enterprises, branch offices, and IoT applications, offering intuitive management and robust security.
- The C1000-24T-4X-L delivers 24 Gigabit Ethernet ports, up to 4 SFP+ 10G uplinks, and a flexible, fixed rack-mount design for optimal deployment.
- Key features include advanced security, high uptimes, and fanless options for noise-sensitive sites, setting it apart from typical Layer 2 solutions.
- It offers seamless device and network management through Cisco IOS Software, CLI, and a user-friendly web interface.
- The C1000-24T-4X-L ensures dependable connectivity, simplified operations, and smooth scalability to help your business stay productive and secure.

Product Highlights

- High-Speed Gigabit Connectivity:** Offers up to 48 Gigabit or Fast Ethernet ports with line-rate forwarding for consistent network performance.
- Flexible Uplink Options:** Supports up to four 10G SFP+ uplinks, ensuring scalable backbone connections for expanding environments.
- Enhanced Security Features:** Incorporates 802.1X authentication, SPAN for monitoring, and BPDU Guard for reliable device protection.
- Intuitive Device Management:** Enables control via CLI, web UI, Bluetooth, or SNMP, making setup and administration easy for all skill levels.

Detailed Features



C1000-24T-4X-L

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Component	Specification
Switching Capacity	128 Gbps
Forwarding Rate	95.23 Mpps
Ports	24 × 10/100/1000BASE-T (RJ45, non-PoE)
Uplink	4 × SFP+ (10GBASE-X)
Form Factor	1RU rack-mountable



Scalable High-Density Access

With up to 48 Gigabit or Fast Ethernet data or PoE+ ports at line rate, this switch efficiently supports growing business demands and dense client environments. Flexible port configurations ensure easy adaptation to various deployment scenarios.

Flexible Uplink Design

The C1000 Series provides multiple uplink choices including fixed 1G SFP, 10G SFP+ on Gigabit models, and combo uplinks, meeting diverse backbone connection needs and future growth without requiring additional hardware.

Advanced PoE+ Support

Perpetual PoE+ models offer a power budget up to 740W, ensuring uninterrupted connectivity and powering of critical devices such as IP phones, cameras, and wireless access points for smart office environments.

User-Friendly Management Options

Offers both CLI and intuitive web GUI management, plus Bluetooth and USB console for direct access, making network administration and initial setup faster and approachable for new and experienced IT teams.

Integrated Network Monitoring

Sampling support via sFlow enables granular network visibility, quick troubleshooting, and effective traffic optimization, helping IT teams maintain peak network health and make informed decisions.

Comprehensive Security Architecture

Built-in features such as 802.1X device authentication, Switched Port Analyzer (SPAN), and BPDU Guard defend against unauthorized access and attacks, securing critical assets at the access layer.

Space-Saving and Silent Operation

Compact, fanless models under 13 inches deep are ideal for offices and locations lacking dedicated network rooms, ensuring low-noise operation and flexible installation in varied environments.

High Reliability and Support

Designed for resilience, with increased Mean Time Between Failures (MTBF) and enhanced limited lifetime warranty support, the C1000 Series safeguards business operations and minimizes network downtime for long-term confidence.

Technical Specifications

Product Specifications

Feature	Value
Series	Catalyst 1000 Series
Port Configuration	24 × 10/100/1000BASE-T (RJ45)
Uplink Ports	4 × SFP+ Uplinks (10GBASE-X)
Form Factor	Fixed-configuration, rack-mountable (1RU)
Switching Capacity	128 Gbps
Forwarding Rate	95.23 Mpps (64-byte L3 packets)
MAC Address Table	16,000 entries
Active VLANs	256
VLAN IDs	4,094
IPv4 Routing Direct	542
IPv4 Routing Indirect	256
IPv6 Routing Direct	414
IPv6 Routing Indirect	128
CPU	ARM v7, 800 MHz



Feature	Value
DRAM	512 MB
Flash Memory	256 MB
Management Interfaces	1 × RJ-45 console port
USB Port	1 × USB-A (for storage/Bluetooth console)
SPAN Sessions	4 (ingress/egress)
Security ACLs IPv4/MAC	600
Security ACLs IPv6	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)
Operating Humidity Range	10% to 90% non-condensing
Operating Altitude Max	Up to 10,000 ft (3,000 m)
Power Input	110-220V AC (auto-sensing)
Power Consumption Idle	14.52W
Power Consumption 10% Traffic	16.44W
Power Consumption 100% Traffic	16.68W
Power Consumption Weighted 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-4X-L	C1000-48P-4G-L	C9300L-24P-4X-E
Fixed Ports	24 × 10/100/1000BASE-T (RJ45, non-PoE)	48 × 10/100/1000BASE-T (RJ45, PoE+)	24 × 10/100/1000BASE-T (RJ45, PoE+)
Uplink Ports	4 × SFP+ (10GBASE-X)	4 × SFP (1GBASE-X)	4 × SFP+ (10GBASE-X)
Switching Capacity	128 Gbps	104 Gbps	104 Gbps



Feature	C1000-24T-4X-L	C1000-48P-4G-L	C9300L-24P-4X-E
Forwarding Rate	95.23 Mpps	77.38 Mpps	77.38 Mpps
PoE Power Budget	N/A	370 W	370 W
Management Options	CLI, Web UI, SNMP, Bluetooth	CLI, Web UI, SNMP, Bluetooth	CLI, Web UI, DNA Center
Routing Capability	Layer 2	Layer 2	Layer 3 (lite)
Fan Design	Fanless	Fanless	Fixed fan
Stacking Support	No	No	Yes
Application Scenario	Branch, SMB Core	High-density SMB with PoE	SMB/Enterprise with advanced Layer3

Accessories

Category	Accessories
Included Accessories	<ul style="list-style-type: none"> - Power Adapter - Rack Mount Kit - Console Cable
Optional Accessories	<ul style="list-style-type: none"> - SFP Transceiver - Rack Ears - USB Console Cable



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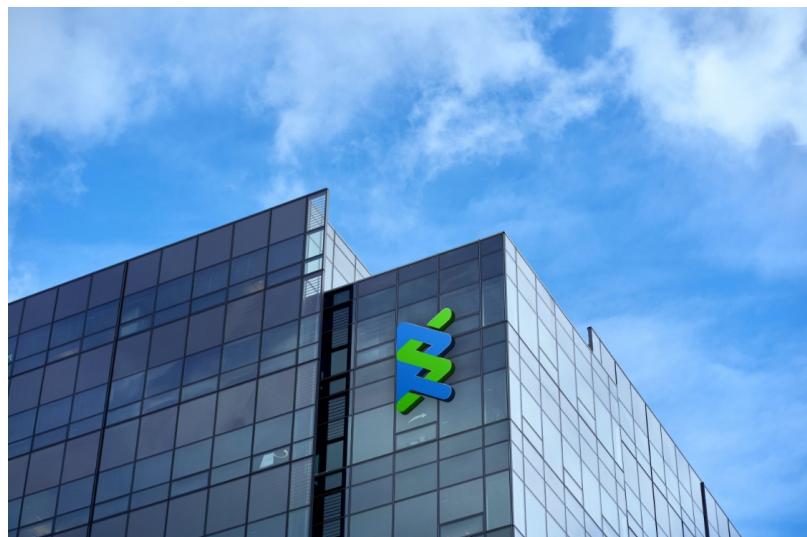


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References

[1] Cisco. (2023). 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>