



Cisco

C1000-16T-E-2G-L

Datasheet

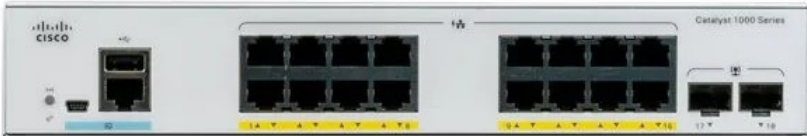
Product Overview

- Cisco's Catalyst 1000 Series switches bring enterprise-level Layer 2 management to small business and branch office environments.
- These switches target small businesses, distributed branches, and IoT segments seeking secure, easy-to-manage networking.
- Key specs include 16x Gigabit Ethernet RJ45 ports, 2x SFP uplinks, efficient packet forwarding, and robust hardware reliability.
- Unique features like fanless compact models, advanced security with 802.1X, and sFlow monitoring strengthen operational trust.
- Intuitive management is delivered through Cisco IOS, CLI, and web UI, minimizing setup and maintenance for lean IT teams.
- For distributed offices or IoT setups, Catalyst 1000 offers secure, reliable connectivity with flexible deployment options.

Product Highlights

- **Flexible Port Selection:** Choose from various port configurations, including 16 Gigabit Ethernet for diverse business needs.
- **Advanced Uplink Options:** Built-in SFP uplinks provide high-speed connections to core switches or network aggregation.
- **Enhanced Security Features:** Supports 802.1X, BPDU Guard, and SPAN for improved network access control and threat monitoring.
- **Simple Device Management:** Manage via CLI, intuitive web UI, Bluetooth and SNMP for easy configuration and monitoring.

Detailed Features



C1000-16T-E-2G-L

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Component	Specification
Switching Capacity	36 Gbps
Forwarding Rate	26.78 Mpps
Downlink Ports	16 × 10/100/1000BASE-T (RJ45, non-PoE)
Uplink Ports	2 × SFP (1000BASE-X)
Management	CLI, Web UI, Cisco DNA Center



Versatile Gigabit Ethernet Access

The Catalyst 1000 Series delivers flexible port configuration, enabling 8, 16, 24, or 48 Gigabit Ethernet ports and Fast Ethernet models. This versatility is ideal for growing networks that need scalable connectivity, supporting both data and PoE+ access at line rates to ensure fast data transfer and effortless expansion.

High-Performance Uplink Connectivity

With options for fixed SFP, SFP+, or combo uplinks, these switches ensure fast backbone connections. Models offer up to 4x 1G or 10G uplinks, enabling high-bandwidth aggregation without congestion. Uplink flexibility allows users to adapt to evolving core, aggregation, or access requirements and optimize for speed.

Comprehensive PoE+ Powering Capabilities

Certain models provide perpetual PoE+ support with a power budget reaching 740W. This feature ensures uninterrupted power for IP phones, cameras, and wireless APs, even during reboots. Enhanced PoE+ power simplifies device deployment and minimizes infrastructure complexity for a cleaner, more efficient workspace.

Robust Security Controls

Enterprise-grade security is built in with 802.1X device authentication, SPAN for traffic analysis, and BPDU Guard for loop and attack prevention. These features help maintain network policy compliance, protect critical endpoints, and provide strong defense mechanisms for sensitive business or IoT deployments.

Compact Fanless Models

Select Catalyst 1000 switches come in compact, fanless enclosures under 33cm depth, ensuring silent operation and easy installation in noise-sensitive or space-limited areas. This approach increases deployment flexibility in retail, hospitality, or office environments without sacrificing reliability or performance.

Efficient Management Interfaces

For daily operation, these switches offer multi-mode managementcommand-line interface (CLI), intuitive on-box web UI, Bluetooth, SNMP, and RJ-45 console. This diversity accommodates a range of administration styles, from experienced IT staff to less technical users, ensuring rapid configuration and troubleshooting.

Advanced Network Monitoring

Integrated sFlow and SPAN for traffic sampling and analysis give IT teams comprehensive visibility of the network. This makes it easier to detect performance issues, diagnose congestion, and safeguard application delivery in real time, promoting smoother business operations.

Proven Reliability and MTBF

A high Mean Time Between Failures (MTBF) and Cisco's enhanced limited lifetime warranty (E-LLW) guarantee dependable operation. Backed by Cisco support, businesses enjoy minimized downtime and strong investment protection, supporting mission-critical applications and future growth.

Technical Specifications

Product Specifications

Feature	Value
Series	Catalyst 1000 Series
Port Configuration	16 × 10/100/1000BASE-T (RJ45, non-PoE)
Uplink Ports	2 × SFP uplinks (1000BASE-X)
Form Factor	Fixed-configuration, rack-mountable (1RU)
Switching Capacity	36 Gbps
Forwarding Rate	26.78 Mpps (64-byte L3 packets)
MAC Address Table	16,000 entries
VLAN Support	256 active VLANs
VLAN IDs	4,094 VLAN IDs
IPv4 Routing Direct	542 direct routes



Feature	Value
IPv4 Routing Indirect	256 indirect routes
IPv6 Routing Direct	414 direct routes
IPv6 Routing Indirect	128 indirect routes
CPU	ARM v7, 800 MHz
DRAM	512 MB
Flash Memory	256 MB
Management Interfaces	1 × RJ-45 console
Console USB Mini-B	1 × USB mini-B (console)
USB-A Storage/Bluetooth	1 × USB-A (storage/Bluetooth)
SPAN Sessions	4 (ingress/egress)
Security ACLs IPv4/MAC	600 IPv4/MAC ACEs
Security ACLs IPv6	600 IPv6 ACEs
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	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	14.04W
Power Consumption 10% Traffic	14.06W
Power Consumption 100% Traffic	14.26W
Power Consumption Weighted Avg	14.12W
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	C1000-16T-E-2G-L	OS6450-P10L	C1-WS3650-48TS/K9
Port Configuration	16 × 10/100/1000BASE-T (RJ45, non-PoE), 2 × SFP uplinks	8 × 10/100/1000BASE-T PoE, 2 × 1G SFP	48 × 10/100/1000BASE-T, 4 × 1G SFP
Switching Capacity	36 Gbps	20 Gbps	176 Gbps
Forwarding Rate	26.78 Mpps	14.8 Mpps	130 Mpps
PoE Support	None	Up to 130W total	None
Management Options	CLI, Web UI, Cisco DNA Center	CLI, WebView, SNMP	CLI, Web UI, SNMP
Layer 3 Routing	Basic static, IPv4/IPv6	Static, RIP	Static, RIP, EIGRP, OSPF
Stacking	Not supported	Stackable up to 2 units	Up to 9 units
MAC Address Table	16,000 entries	16,000 entries	32,000 entries
Fan Design	Fanless	Fanless	Internal fans
Dimensions (W × D × H)	17.29 in × 16.14 in × 1.712 in	11 × 8.4 × 1.7 in	17.5 × 13 × 1.75 in

Accessories

Category	Accessories
Included Accessories	<ul style="list-style-type: none"> - AC Power Cord - Rack Mount Kit - Console Cable
Optional Accessories	<ul style="list-style-type: none"> - SFP Transceiver Module - USB Bluetooth Adapter - Managed Power Supply



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References

[1] Cisco Systems. (2023). 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>