Cisco

C1000-16T-2G-L

Datasheet
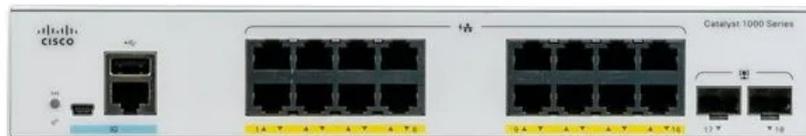
Product Overview

- The Cisco Catalyst 1000 Series represents Cisco's trusted solution for entry-level managed Layer 2 switching in small business and branch networks.

- This switch line is designed for offices, medical clinics, retail stores, and remote workspaces seeking reliable Ethernet connectivity.

- Key hardware features include 16 Gigabit Ethernet ports, two SFP uplink slots, and a robust ARM v7 800 MHz processor for stable data delivery.

- Distinct in its class, the switch offers sFlow monitoring and Bluetooth device management, and built-in security protocols like 802.1X.

- Simple management is assured through Cisco IOS, either by clear CLI commands or via an intuitive on-board web user interface.

- Its compact build and ease of use suit critical deployments where space is limited and uninterrupted, secure access is essential for operations.

Product Highlights

- **Flexible Connectivity Options:** Offers models from 8 to 48 Gigabit or Fast Ethernet ports to suit diverse business scenarios and future expansion.

- **High-Performance Uplink Design:** Equipped with fixed 1G or 10G SFP/SFP+ uplinks, ensuring fast, high-capacity aggregation or backbone connections.

- **Comprehensive Security Features:** Advanced security with 802.1X, SPAN, BPDU Guard, and monitoring through sFlow for robust data protection.

- **Intuitive Management:** User-friendly CLI and web UI with Bluetooth and SNMP support for quick, centralized device configuration and troubleshooting.

Detailed Features

C1000-16T-2G-L

Component	Specification
Downlink Ports	16 x 10/100/1000BASE-T RJ45 (non-PoE)
Uplink Ports	2 x SFP 1000BASE-X
Form Factor	Fixed 1RU, rack-mountable
Switching Capacity	36 Gbps
Forwarding Rate	26.78 Mpps

Scalable Gigabit Access

The switch provides 16 dedicated 10/100/1000BASE-T Ethernet ports, facilitating reliable high-speed access for various devices across business environments. Non-PoE design ensures optimal energy use in scenarios where power sourcing is not required, streamlining deployment for data connectivity.

Flexible Uplink Architecture

Featuring two integrated SFP uplink slots supporting 1G fiber modules, this model enables seamless high-bandwidth connectivity to core or aggregation switches. The design supports scalable expansion and flexible network architecture, even in bandwidth-intensive or distributed setups.

Robust Operational Performance

Built on an efficient ARM v7 800 MHz processor, backed by 512 MB DRAM and 256 MB flash memory, the switch supports rapid data processing, stable packet forwarding at 26.78 Mpps, and dependable storage for configurations and logs in demanding business operations.

Simplified Management Solutions

Administrators benefit from both classic CLI control and a user-friendly web interface. Console and USB interfaces enable flexible local access, while SNMP and Bluetooth further expand secure remote operation and centralized management.

Integrated Security Protection

Advanced features like IEEE 802.1X user/device authentication, BPDU Guard, and Switched Port Analyzer (SPAN) minimize security threats and ensure real-time visibilityideal for sensitive data and regulatory compliance.

Efficient Network Monitoring

sFlow provides sample-based monitoring that helps IT teams analyze traffic, detect anomalies early, and optimize resource allocation. Multi-session SPAN enhances live troubleshooting and supports detailed forensic analysis on critical links.

Compact, Fanless Options

Available in models with under 13-inch (33 cm) depth and optional fanless operation, the switch is perfect for quiet, space-constrained environments, such as front desks, clinics, or open retail environments, ensuring silent, unobtrusive operation.

Proven Reliability and Warranty Support

Its enhanced hardware design guarantees higher Mean Time Between Failures (MTBF), while Ciscos Enhanced Limited Lifetime Warranty (E-LLW) affirms long-term dependability and investment protection for users.

Technical Specifications

Product Specifications

Feature	Value
Series	Catalyst 1000 Series
Port Configuration	16 x 10/100/1000BASE-T (RJ45, non-PoE), 2 x 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
Active VLANs	256
VLAN IDs	4,094
IPv4 Routes (Direct/Indirect)	542 / 256
IPv6 Routes (Direct/Indirect)	414 / 128
CPU	ARM v7, 800 MHz

Feature	Value
DRAM	512 MB
Flash Memory	256 MB
Management Interfaces	1 x RJ-45 console, 1 x USB mini-B (console), 1 x USB-A (storage/Bluetooth console)
SPAN Sessions	4 (ingress/egress)
IPv4/MAC ACEs	600
IPv6 ACEs	600
Supported Protocols	SNMP v1/v2c/v3, IEEE 802.1X, LLDP, CDP
Dimensions (W x D x H)	17.29 in x 16.14 in x 1.712 in (43.92 cm x 40.99 cm x 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 / 10% / 100% / Weighted Avg)	14.04W / 14.06W / 14.26W / 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-2G-L	C1000-24T-4X-L	C9200L-48PL-4G-E
Port Configuration	16 x 10/100/1000BASE-T, 2 x SFP	24 x 10/100/1000BASE-T, 4 x SFP	48 x 10/100/1000BASE-T PoE+, 4 x SFP
Switching Capacity	36 Gbps	56 Gbps	104 Gbps
Forwarding Rate	26.78 Mpps	41.66 Mpps	77.38 Mpps
PoE Support	No PoE	No PoE	PoE+ up to 370W
Layer 2 Features	Yes	Yes	Yes
Stacking Capability	No	No	No

Feature	C1000-16T-2G-L	C1000-24T-4X-L	C9200L-48PL-4G-E
Management Interface	CLI, Web UI, SNMP	CLI, Web UI, SNMP	CLI, Web UI, SNMP
Dimensions (W x D x H)	17.29 in x 16.14 in x 1.712 in	17.29 in x 13.81 in x 1.72 in	17.5 in x 13.8 in x 1.73 in
Typical Use	Small business/branch, non-PoE	Small business/branch, more ports	SMB/branch needing PoE and higher port density

Accessories

Category	Accessories
Included Accessories	- Power Adapter - Rack Mount Kit - Quick Start Guide
Optional Accessories	- SFP Transceiver - Console Cable - Cable Management Bracket

Support & Warranty

24/7 Online Service

3-Year Premium Warranty

Professional Technical Support

100% Low Price Guarantee

100% Quality Assurance

100% Money Back Guarantee

About Us

Router-switch.com, headquartered in Hong Kong since 2002, has been a trusted global leader in ICT distribution for 23 years. We provide cutting-edge networking, cybersecurity, data center, and AI solutions to meet evolving business needs. Our wide range includes products from top brands like Cisco, Arista, Aruba, Fortinet, Mellanox, and Huawei, ensuring access to the latest technology and innovations.

18,000+
global customers

600,000+
end-users

200+
countries & regions

23
years experience

500+
global vendors

100,000+
SKUs available

700+
local sales experts

50-98%
off global list prices

Contact Us

Email

High Connectivity: sales@router-switch.com
Expert Technical Support: ccie-support@router-switch.com
Cooperative Partnerships: ccie-support@router-switch.com

Follow Us

Facebook: @Routerswitchdotcom
LinkedIn: Router-switch.com
X: @routerswitchcom
Instagram: @routerswitchdotcom

Phone

USA: +1-626-655-0998
Hong Kong: +852-25925389 / +852-25925411

Global Footprint

Global Warehouses & Service Centers Across Continents.

London
United Kingdom

Berlin
Germany

New Jersey, NJ
United States

Mumbai
India

Shenzhen
China

Los Angeles, CA
United States

Riyadh
Saudi Arabia

Hanoi
Vietnam

Hong Kong
China

Dubai
The United Arab Emirates

Singapore
Republic of Singapore

Global Branches

Headquarters (Hong Kong)

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

Shenzhen Branch

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

USA Branch

3592 Rosemead Blvd, B #220, Rosemead, CA 91770, USA

UK Branch

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

References

[1] Cisco. (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