



# Cisco

# C1000-8T-E-2G-L

## Datasheet



## Product Overview

- Cisco Catalyst 1000 Series switches are enterprise-grade devices engineered for high reliability and secure connectivity.
- Designed for small businesses and branch offices, these switches simplify network expansion and boost business connectivity.
- The C1000-8T-E-2G-L features 8 Gigabit Ethernet ports, 2 SFP uplinks, and robust performance for small network environments.
- Advanced network security and sFlow monitoring ensure safe and transparent IT operations at all times.
- Flexible web UI and CLI management allow seamless integration and easy deployment for many business scenarios.
- Ideal for users who require straightforward, high-performance switching with trusted Cisco IOS capabilities for essential business needs.

## Product Highlights

- **High-Performance Gigabit Access:** 8 × 10/100/1000BASE-T ports and 2 × 1G SFP uplinks deliver smooth data transfer across your network.
- **Integrated Security Features:** Supports 802.1X authentication, SPAN, and BPDU Guard to safeguard connected network devices and users.
- **Flexible Device Management:** Choose between CLI and web UI interfaces; manage locally via SNMP, Bluetooth, or RJ-45 console.
- **Reliable Fanless Design:** Compact, silent operation with fanless architecture and depth less than 13 inches for versatile deployments.

## Detailed Features



### C1000-8T-E-2G-L

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Component	Specification
Ports	8 × 10/100/1000BASE-T, 2 × 1G SFP uplinks
Form Factor	Fixed, rack-mountable (1RU)
Switching Capacity	20 Gbps
Management	CLI, Web UI, SNMP
Power Supply	External (included)



Gigabit Ethernet Performance

The C1000-8T-E-2G-L offers eight 10/100/1000BASE-T (RJ45) ports with line-rate forwarding. This allows small office and branch users to enjoy reliable, high-speed data transfer for demanding network applications without bottlenecks or slowdowns, supporting smoother business operations and bandwidth-intensive tasks efficiently.

Flexible Uplinks and Network Expansion

Equipped with two 1G SFP uplinks, this switch lets users expand connectivity by connecting to fiber networks or aggregating uplinks. These SFP ports ensure easy integration across existing infrastructures and enable flexible uplink choices suitable for a range of deployment scenarios.

Advanced Security and Access Control

Security features include 802.1X authentication, Switched Port Analyzer (SPAN) for port mirroring, and BPDU Guard, which together help prevent unauthorized device access, monitor network activity, and guard against loop-based attacks, creating a safer and more compliant network environment.

Silent Operation for Any Environment

The fanless design makes the C1000-8T-E-2G-L an ideal choice for deployment in noise-sensitive areas such as retail stores, classrooms, or open office environments. The compact size (depth under 13 inches) further enables flexible installation outside traditional wiring closets.

Easy and Versatile Management

Management is streamlined through intuitive web UI or command-line interface (CLI). Over-the-air device access via Bluetooth, as well as RJ-45 console and SNMP support, provides IT teams and service partners with versatile tools for quick setup and monitoring.

Enhanced Network Reliability

A higher Mean Time Between Failures (MTBF) ensures the device delivers dependable network services for extended periods, reducing downtime and improving user satisfaction. Built-in testing and robust construction further assure consistent performance.

Comprehensive Monitoring Capabilities

With sampled flow (sFlow) support, the switch offers visibility into network traffic patterns. This helps administrators analyze usage trends, identify bottlenecks, and proactively troubleshoot or optimize network resources.

Optimized for Small Business Needs

Pre-configured with Cisco IOS for a consistent user experience, this switch is ideal for small organizations needing advanced features without complexity. Intuitive operation, strong security, and efficiency meet the needs of evolving digital workplaces.

Technical Specifications

Product Specifications

Feature	Value
Series	Catalyst 1000 Series
Form Factor	Fixed-configuration, rack-mountable (1RU)
Port Configuration	8 × 10/100/1000BASE-T (RJ45), 2 × 1G SFP uplinks
Power Supply	External (included)
Switching Capacity	20 Gbps
Forwarding Rate	14.88 Mpps (64-byte L3 packets)
MAC Address Table	16,000 entries
Active VLANs	256 active VLANs
VLAN IDs	4,094 VLAN IDs
IPv4 Routing - Direct Routes	542
IPv4 Routing - Indirect Routes	256



Feature	Value
IPv6 Routing - Direct Routes	414
IPv6 Routing - Indirect Routes	128
CPU	ARM v7, 800 MHz
DRAM	512 MB
Flash Memory	256 MB
Operating Temperature - Min	-5°F
Operating Temperature - Max	50°C (short-term 50°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
Management Interfaces - RJ-45 Console Port	1
Management Interfaces - USB-A (storage/Bluetooth console)	1
Security ACLs - IPv4/MAC ACEs	600
Security ACLs - IPv6 ACEs	600
Minimum IOS Version	Cisco IOS 15.2(7)E4 or later
Certifications - Safety	UL 60950-1, EN 60950-1
Certifications - EMC	FCC Part 15 Class A

## Product Comparison

Feature	C1000-8T-E-2G-L	C1000-48P-4G-L	C9300L-48UXG-4X-E
Port Configuration	8 × 10/100/1000BASE-T, 2 × 1G SFP	48 × 10/100/1000BASE-T PoE+, 4 × 1G SFP	48 × MultiGig (100M/1G/2.5G/5G/10G), 4 × 10G SFP+
Switching Capacity	20 Gbps	56 Gbps	296 Gbps
PoE Support	No PoE	PoE+ up to 740W	PoE+ up to 1440W



Feature	C1000-8T-E-2G-L	C1000-48P-4G-L	C9300L-48UXG-4X-E
Management Interface	CLI, Web UI, SNMP, Bluetooth	CLI, Web UI, SNMP, Bluetooth	CLI, Web UI, SNMP, Bluetooth
Layer 3 Routing	Direct/Indirect IPv4: 542/256, IPv6: 414/128	Direct/Indirect IPv4: 542/256, IPv6: 414/128	Full general Layer 3 incl. OSPF, EIGRP
Stacking Support	Not supported	Not supported	StackWise-160 supported
Fan Design	Fanless	Fan-cooled	Redundant fans
Deployment Scenario	Small offices and branches	Medium-sized PoE deployments	High-performance campus, multi-gigabit edge

## Accessories

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



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**High Connectivity:** [sales@router-switch.com](mailto:sales@router-switch.com)

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**Cooperative Partnerships:** [ccie-support@router-switch.com](mailto:ccie-support@router-switch.com)

### Phone

**USA:** +1-626-655-0998

**Hong Kong:** +852-25925389 / +852-25925411

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## Global Branches

### Headquarters (Hong Kong)

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

### USA Branch

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

### Shenzhen Branch

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

### 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>