



# Cisco

# C1000-16FP-2G-L

## Datasheet



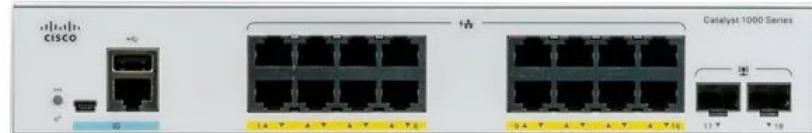
## Product Overview

- Cisco Catalyst 1000 Series embodies trusted Cisco engineering in a fixed-configuration network switch built for small businesses.
- It is designed for branch offices, retail outlets, and small enterprise environments that need secure and reliable connectivity.
- With 16 Gigabit PoE+ ports and 2 SFP uplinks, high switching capacity, and fanless options, it delivers robust and efficient performance.
- Advanced security with 802.1X, easy web UI or CLI management, and monitoring via sFlow set it apart from basic unmanaged switches.
- Bluetooth and SNMP support add value for remote or simplified network operations and quick device deployment without complex infra.
- Simple management, flexible deployment, and enhanced network protection let businesses maintain stable connections for critical IoT or POS systems.

## Product Highlights

- **Comprehensive Port Flexibility:** Offers Gigabit Ethernet and PoE+ ports with line-rate forwarding for reliable end device connectivity.
- **Network Security Strength:** Supports 802.1X, SPAN, and BPDU Guard to help secure endpoints and guard against unauthorized access.
- **Advanced Power over Ethernet:** Enables consistent PoE+ delivery with a maximum power budget of 740W and perpetual PoE+ support.
- **User-Friendly Management:** Combines intuitive web UI, CLI, SNMP, and Bluetooth-based management options for operational efficiency.

## Detailed Features



C1000-16FP-2G-L

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Component	Specification
Port Configuration	16 × 10/100/1000BASE-T PoE+ (RJ45), 2 × SFP uplinks (1000BASE-X)
Form Factor	Fixed-configuration, rack-mountable (1RU)
Switching Capacity	36 Gbps
Power Budget	195W (PoE+ total)
Management Interface	RJ-45 console, USB mini-B, USB-A



## Full Port Flexibility

The C1000-16FP-2G-L provides 16 Gigabit Ethernet PoE+ ports and 2 SFP uplinks. This ensures high-performance connectivity for a variety of endpoint devices, supporting both data and power transmission with stable line-rate forwarding for reliable, efficient operation in business-critical environments.

## Powerful Perpetual PoE+ Support

With perpetual PoE+ capability and a total power budget up to 195W, this switch ensures continuous power delivery to connected devices even during reboots. This feature minimizes disruptions for phones, cameras, and access points, making the network resilient in always-on scenarios like retail and security.

## Trusted Cisco Security

Security includes 802.1X for device authentication, SPAN for traffic monitoring, and BPDU Guard for loop prevention. These proven technologies help protect the network from unauthorized access and internal security threats, meeting the needs of small offices and larger branch deployments.

## Rich Uplink Options

With SFP uplinks, this model supports flexible uplinks to the network core or aggregation layers, ensuring bandwidth scalability. These options accommodate different fiber or copper network infrastructures, ensuring seamless integration into new and existing environments without costly upgrades.

## Efficient Device Management

Manage via Cisco DNA Center, traditional CLI, or intuitive web UI. The switch also offers Bluetooth access, SNMP support, and direct console ports for streamlined setup, everyday maintenance, and monitoring, saving time for IT teams and reducing learning curves for small organizations.

## Enhanced Reliability

The platform features improved Mean Time Between Failures (MTBF) and robust internal architecture, supporting mission-critical scenarios that demand continuous uptime. With Cisco's enhanced limited lifetime warranty (E-LLW), users gain peace of mind for long-term investments.

## Space-Saving Compact Design

Some models offer a fanless, compact layout with a depth less than 13 inches. This allows for silent operation in noise-sensitive locations and easy wall-mounting or installation in tight IT closets, ideal for small office and branch deployments with limited space.

## Enterprise-Class Monitoring

Supports sFlow for sampled flow analysis, ensuring network administrators can track performance trends, detect bottlenecks, and resolve issues proactively. This enterprise-grade monitoring empowers small businesses to maintain high-quality and stable network services similar to large organizations.

# Technical Specifications

## Product Specifications

Feature	Value
Series	Catalyst 1000 Series
Port Configuration	16 × 10/100/1000BASE-T PoE+ (RJ45, IEEE 802.3af/at), 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, 4,094 VLAN IDs
IPv4 Routing	542 direct, 256 indirect routes
IPv6 Routing	414 direct, 128 indirect routes
PoE Standards	IEEE 802.3af (15.4W/port), 802.3at (30W/port)
Max PoE Budget	195W (total)



Feature	Value
PoE Power Supply	Internal (auto-sensing 110–220V AC)
CPU	ARM v7, 800 MHz
DRAM	512 MB
Flash Memory	256 MB
Management Interfaces	1 × RJ-45 console, 1 × USB mini-B (console), 1 × USB-A (storage/Bluetooth console)
SPAN Sessions	4 (ingress/egress)
Access Control Lists	IPv4/MAC ACEs: 600, IPv6 ACEs: 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	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)
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	C1000-16FP-2G-L	C1000-24P-4G-L	C9200L-24P-4X-A
Switching Capacity	36 Gbps	56 Gbps	56 Gbps
Ports	16 × 10/100/1000BASE-T PoE+, 2 × SFP uplinks	24 × 10/100/1000BASE-T PoE+, 4 × SFP uplinks	24 × 10/100/1000BASE-T PoE+, 4 × 1G SFP uplinks
Max PoE Budget	195W	370W	370W
Management	Web UI, CLI, SNMP, Cisco DNA Center	Web UI, CLI, SNMP, Cisco DNA Center	Web UI, CLI, SNMP, Cisco DNA Center
Forwarding Rate	26.78 Mpps	41.66 Mpps	77.38 Mpps
MAC Address Table	16,000 entries	16,000 entries	16,000 entries



Feature	C1000-16FP-2G-L	C1000-24P-4G-L	C9200L-24P-4X-A
VLAN Support	256 active VLANs, 4,094 VLAN IDs	256 active VLANs, 4,094 VLAN IDs	4,096 VLAN IDs
Stacking Capability	Not supported	Not supported	Supported (StackWise-160)

## Accessories

Category	Accessories
Included Accessories	<ul style="list-style-type: none"> <li>- AC 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 Module</li> <li>- Console Cable</li> <li>- PoE Power Injector</li> </ul>



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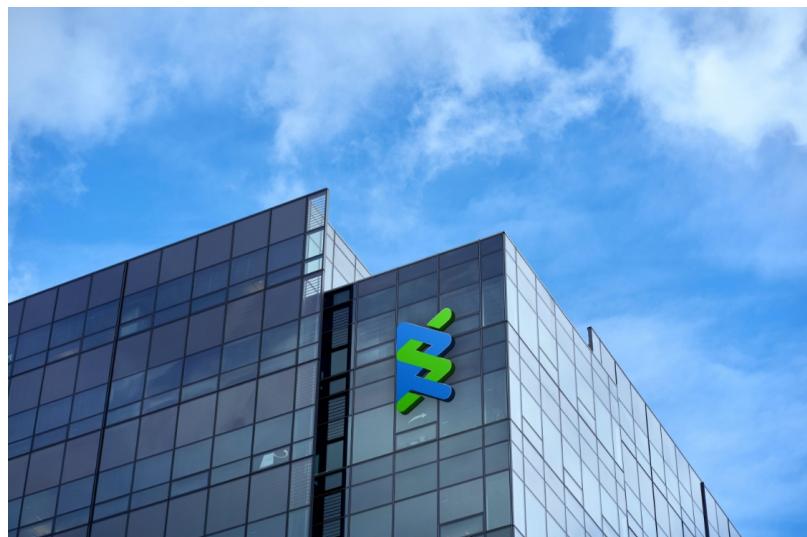


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## References

[1] Cisco. (2023). Cisco 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>