



Cisco

C1000-8FP-2G-L

Datasheet



Product Overview

- Cisco Catalyst 1000 Series Switches are engineered to deliver professional-grade Layer 2 networking in compact, fixed configurations.
- Ideal for SMBs and branch offices, these switches target users needing reliable and secure Ethernet connectivity with limited IT resources.
- Key hardware includes 8 Gigabit SFP ports, 2 dedicated 1G SFP uplinks, and support for up to 20 Gbps switching capacity to ensure speed and scalability.
- Feature highlights include robust PoE+ support, advanced security with 802.1X, and versatile management options such as CLI and web UI.
- Deployment is straightforward with options like Bluetooth, SNMP, and console management, simplifying network setup and monitoring for distributed teams.
- This platform offers value by lowering complexity and providing dependable networking for IoT or workspace growth, maximizing efficiency for growing organizations.

Product Highlights

- **Flexible Uplink Options:** Offers 8 × 100/1000BASE-X SFP fiber ports and 2 × 1G SFP uplinks for high-speed connections and network scalability.
- **PoE+ Power Delivery:** Integrated perpetual PoE+ support with a robust power budget, ideal for powering IP phones and wireless devices without extra cabling.
- **Intuitive Manageability:** Supports both CLI and user-friendly web UI, making device management accessible to all administrator skill levels.
- **Enhanced Security:** Advanced features like 802.1X, SPAN, and BPDU Guard protect networks from unauthorized access and operational disruptions.

Detailed Features



C1000-8FP-2G-L

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Component	Specification
Port Configuration	8 × 100/1000BASE-X SFP (Fiber)
Uplink Ports	2 × 1G SFP
Switching Capacity	20 Gbps
Forwarding Rate	14.88 Mpps
Form Factor	1RU fixed rack-mountable



Enterprise-Class Performance

The C1000-8FP-2G-L delivers enterprise-grade Layer 2 switching capabilities with 8 Gigabit SFP ports and 2 dedicated 1G SFP uplinks. The fixed-configuration design enables high-density fiber connectivity ideal for branch offices, small enterprises, and secure building access deployments.

Robust Power over Ethernet (PoE+) Capability

Integrated perpetual PoE+ supports a substantial power budget across all ports, allowing seamless connection of access points, IP phones, and cameras. This ensures reliable operation of IoT and communication devices while minimizing additional cabling or power sources.

High Reliability & Uptime

With a switching capacity of 20 Gbps, 14.88 Mpps forwarding rate, and optimized MTBF, these switches are built for steady, uninterrupted operation. The compact, fanless architecture reduces maintenance and ensures a longer lifecycle in dust-prone or quiet environments.

Comprehensive VLAN and Routing Support

Support for up to 256 active VLANs and 4,094 VLAN IDs alongside both IPv4 and IPv6 direct and indirect routing means greater flexibility in traffic segmentation, future-proofing your network for business growth and protocol transitions.

Advanced Network Security

Security protocols like 802.1X, Switched Port Analyzer (SPAN), and Bridge Protocol Data Unit (BPDU) Guard complete a multi-layered security approach. They enable granular device authentication and proactive network protection against potential threats or loops.

Streamlined Device and Network Management

Supports intuitive device and network management with Cisco IOS software, command-line interface, and an onboard web UI. Additionally, Bluetooth and SNMP capabilities allow remote monitoring and faster troubleshooting from multiple management platforms.

Optimized for Modern Deployments

The models fanless structure with a sub-13 inch depth supports installations outside of wiring closets, suiting office or campus environments. Its flexible mounting options and low power consumption deliver operational efficiency and environmental adaptability.

Expandable, Standards-Based Integration

Compliance with industry standards, such as UL 60950-1 and FCC Part 15 Class A, ensures seamless adoption into diverse infrastructures. Native support for advanced functions allows tailored integration and future-ready expansion as new business needs emerge.

Technical Specifications

Product Specifications

Feature	Value
Series	Catalyst 1000 Series
Port Configuration	8 × 100/1000BASE-X SFP (Fiber)
Uplink Port Configuration	2 × 1G SFP Uplinks
Form Factor	Fixed-configuration, rack-mountable (1RU)
Switching Capacity	20 Gbps
Forwarding Rate	14.88 Mpps (64-byte L3 packets)
MAC Address Table	16,000 entries
VLANs Supported	256 active, 4,094 VLAN IDs
IPv4 Routing (Direct)	542 direct routes
IPv4 Routing (Indirect)	256 indirect routes
IPv6 Routing (Direct)	414 direct routes



Feature	Value
IPv6 Routing (Indirect)	128 indirect routes
CPU	ARM v7, 800 MHz
DRAM	512 MB
Flash Memory	256 MB
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)	-5°F
Operating Temperature (Max)	50°C (short-term 50°C)
Operating Humidity	10% to 90% non-condensing
Max 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	1 × RJ-45 console, 1 × USB-A (storage/Bluetooth console)
Security ACLs (IPv4/MAC)	600 IPv4/MAC ACEs
Security ACLs (IPv6)	600 IPv6 ACEs
Minimum IOS Version	Cisco IOS 15.2(7)E4 or later
Certifications	UL 60950-1, EN 60950-1, FCC Part 15 Class A

Product Comparison

Feature	C1000-8FP-2G-L	C1000-16P-2G-L	C1000-24P-4X-L
Port Configuration	8 × 100/1000BASE-X SFP, 2 × 1G SFP	16 × 10/100/1000Base-T PoE+, 2 × 1G SFP	24 × 10/100/1000Base-T PoE+, 4 × 1G SFP
PoE+ Power Budget	Up to 120W	Up to 240W	Up to 370W
Switching Capacity	20 Gbps	20 Gbps	56 Gbps
Forwarding Rate	14.88 Mpps	14.88 Mpps	41.67 Mpps



Feature	C1000-8FP-2G-L	C1000-16P-2G-L	C1000-24P-4X-L
MAC Address Table	16,000 entries	16,000 entries	16,000 entries
VLANs Supported	256 active, 4,094 IDs	256 active, 4,094 IDs	256 active, 4,094 IDs
Management Options	CLI, Web UI, SNMP, Bluetooth	CLI, Web UI, SNMP, Bluetooth	CLI, Web UI, SNMP, Bluetooth
Deployment Scenario	Fiber aggregation/branch fiber panels	Higher-port PoE for SMB access	Large SMBs or departments needing more PoE and uplink capacity

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 Modules - Additional Power Supply - Cable Management Kit



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References

[1] Cisco Systems. (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>