



Cisco

C1000-8P-2G-L

Datasheet

Product Overview

- Cisco's Catalyst 1000 Series offers reliable, fixed managed switches designed for small business and branch networks.
- It serves small enterprises, branch offices, and distributed IoT deployments where simplicity and secure connectivity are critical.
- The C1000-8P-2G-L features 8 Gigabit Ethernet ports, 2 SFP/RJ-45 combo uplinks, and robust PoE+ with a 67W power budget, ensuring smooth operation.
- Security and flexible management options like CLI and web UI distinguish the range for versatile network control.
- Deployment is straightforward, with compact, fanless models and Bluetooth, SNMP, and RJ-45 console access for easy integration.
- It is ideal for upgradable small offices needing robust security, easy management, and dependable network performance in diverse settings.

Product Highlights

- **Flexible Gigabit/PoE+ Ports:** Offers up to 8 Gigabit Ethernet and Power over Ethernet Plus (PoE+) ports with line-rate forwarding for maximum connectivity.
- **High-Performance Uplinks:** Equipped with 2 fixed 1GE SFP/RJ-45 combo uplinks to support high-speed data aggregation and flexible network expansion.
- **Enhanced Security & Monitoring:** Supports 802.1X, BPDU Guard, and comprehensive network monitoring with sFlow and SPAN for reliable performance.
- **Compact, Fanless Design:** Fanless models under 13 deep ensure quiet deployment even in space-constrained, noise-sensitive environments.

Detailed Features



C1000-8P-2G-L

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Component	Specification
Port Configuration	8 × 10/100/1000BASE-T, 2 × SFP/RJ-45 combo
PoE+ Power Budget	67W
Fanless	Yes
Dimensions	10.56 × 12.73 × 1.73 in



Agile Enterprise-Class Switching

The Catalyst 1000-8P-2G-L delivers Layer 2 switching with integrated Gigabit and Fast Ethernet support. Its architecture is optimized for business growth, offering wire-speed, reliable switching for critical office and IoT devices, ensuring seamless day-to-day productivity.

High Port Density with PoE+

With 8 Gigabit PoE+ ports and two SFP/RJ-45 combo uplinks, the switch reliably powers various devices like IP phones, cameras, or wireless APs while delivering high-throughput data traffic to the core, supporting flexible topology expansion.

Intuitive Manageability

Users can manage the switch through a familiar CLI or a built-in web UI, ensuring that IT staff with any skill level can easily monitor, configure, and troubleshoot network settings, streamlining provisioning for SMB and branch deployments.

Advanced Security Capabilities

The device incorporates advanced security such as 802.1X authentication, BPDU Guard, and SPAN analyzer. These are designed to secure endpoints, prevent unauthorized connections, and maintain network integrity, vital for sensitive business information.

Quiet, Space-Saving Operation

Its fanless design offers silent performance suitable for open offices, retail shops, or classrooms. The less than 13-inch depth supports installation in cramped areas, making it a fit for modern compact environments without requiring dedicated server rooms.

Flexible Device Access

Bluetooth, SNMP, and RJ-45 console options simplify initial setup and ongoing device management. The switch makes it possible to deploy, monitor, and update hardware with minimal time investment and technical effort.

Resilient and Efficient Architecture

With a high MTBF of over 2 million hours, the device ensures years of dependable service. Robust electronics and rigorous quality assurance reduce unexpected downtime, meeting the business demand for operational consistency.

Complete Network Visibility

Built-in sFlow, maximum VLAN support, and rich monitoring tools let administrators analyze traffic patterns and rapidly identify network events. This visibility empowers organizations to optimize resources and respond to issues proactively.

Technical Specifications

Product Specifications

Feature	Value
Gigabit Ethernet Ports	8
Uplink Interfaces	2 SFP/RJ-45 combo
PoE+ Power Budget	67W
Fanless	Y
Dimensions (WxDxH in Inches)	10.56 x 12.73 x 1.73
RJ-45 Ethernet Console Port	1
USB Mini-B Console Port	1
USB-A Port for Storage and Bluetooth Console	1
CPU	ARM v7 800 MHz
DRAM	512 MB
Flash Memory	256 MB
Forwarding Bandwidth	10 Gbps
Switching Bandwidth	20 Gbps



Feature	Value
Forwarding Rate (64-byte L3 Packets)	14.88 Mpps
Unicast MAC Addresses	16000
IPv4 Unicast Direct Routes	542
IPv4 Unicast Indirect Routes	256
IPv6 Unicast Direct Routes	414
IPv6 Unicast Indirect Routes	128
IPv4/IPv6 Static Routes	16 each
IPv4 Multicast Routes and IGMP Groups	1024
IPv6 Multicast Groups	1024
IPv4/MAC Security ACEs	600
IPv6 Security ACEs	600
Maximum Active VLANs	256
VLAN IDs Available	4094
Maximum STP Instances	64
Maximum SPAN Sessions	4
MTU-L3 Packet	9198 bytes
Jumbo Ethernet Frame	10240 bytes
Dying Gasp	Yes
MTBF in Hours (Data)	2171669
MTBF in Hours (PoE)	1786412, 1706649 (External PS)
MTBF in Hours (Full PoE)	1706649
Operating Temperature (Seal Level)	-5 to 50°C *
Operating Temperature (Up to 5,000 ft / 1500 m)	-5 to 45°C
Operating Temperature (Up to 10,000 ft / 3000 m)	-5 to 40°C
Operating Altitude	10,000 ft (3000 m)
Operating Relative Humidity	5% to 90% at 40°C
Storage Temperature	-13 to 158°F (-25 to 70°C)
Storage Altitude	15,000 ft (4500 m)
Storage Relative Humidity	5% to 95% at 65°C
Safety	UL 60950-1 Second Edition, CAN/CSA-C22.2 No. 60950-1 Second Edition, EN 60950-1 Second Edition,



Feature	Value
	IEC 60950-1 Second Edition, AS/NZS 60950-1, IEC 62368-1, UL 62368-1, GB 4943. 1-2011
EMC: Emissions	47CFR Part 15 Class A, AS/NZS CISPR32 Class A, CISPR32 Class A, EN55032 Class A, ICES-003 Class A, VCCI-CISPR32 Class A, EN61000-3-2, EN61000-3-3, KN32 Class A, CNS13438 Class A
EMC: Immunity	EN55024 (including EN 61000-4-5), EN300386, KN35
Environmental	Reduction of Hazardous Substances (RoHS) including Directive 2011/65/EU
Telco	Common Language Equipment Identifier (CLEI) code
U.S. Government Certifications	TBD
Ethernet Interfaces	<ul style="list-style-type: none"> * 10BASE-T ports: RJ-45 connectors, 2-pair Category 3, 4, or 5 Unshielded Twisted Pair (UTP) cabling * 100BASE-TX ports: RJ-45 connectors, 2-pair Category 5 UTP cabling * 1000BASE-T ports: RJ-45 connectors, 4-pair Category 5 UTP cabling * 1000BASE-T SFP-based ports: RJ-45 connectors, 4-pair Category 5 UTP cabling
Indicator LEDs	<ul style="list-style-type: none"> * Per-port status: link integrity, disabled, activity * System status: system
Console Cables	<ul style="list-style-type: none"> * CAB-CONSOLE-RJ45 Console cable 6 ft. with RJ-45 * CAB-CONSOLE-USB Console cable 6 ft. with USB Type A and mini-B connectors
Power	<ul style="list-style-type: none"> * Use the supplied AC power cord to connect the AC power connector to an AC power outlet * Models have external power supply



Product Comparison

Feature	C1000-8P-2G-L	C1000-24P-4X-L	C9300-24S-E
Ethernet Ports	8 × 10/100/1000BASE-T	24 × 10/100/1000BASE-T	24 × 1G SFP
Uplink Ports	2 × SFP/RJ-45 combo	4 × 1G SFP	4 × 1G SFP+
PoE+ Power Budget	67W	195W	Not applicable
Fanless Design	Yes	Yes	No
Switching Bandwidth	20 Gbps	56 Gbps	128 Gbps
Management	CLI, Web UI, SNMP, Bluetooth, RJ-45 console	CLI, Web UI, SNMP, Bluetooth, RJ-45 console	CLI, Web UI, SNMP, Telnet
Layer 2/3 Features	Layer 2 switching, VLAN, STP	Layer 2 switching, VLAN, STP	Layer 2 & Layer 3 routing, QoS, advanced security
MTBF (Data)	2,171,669 hours	1,979,000 hours	1,380,000 hours
Dimensions	10.56 x 12.73 x 1.73 in	17.5 x 9.45 x 1.73 in	17.5 x 17.5 x 1.73 in
Application Scenarios	Small office, IoT, branch	Branch, campus, SME	Enterprise campus, aggregation

Accessories

Category	Accessories
Included Accessories	<ul style="list-style-type: none"> - AC Power Cord - RJ-45 Console Cable - Mounting Kit
Optional Accessories	<ul style="list-style-type: none"> - SFP Transceiver Modules - External Power Supply Units - USB Console Cable



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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>