



Cisco

C1000-24FP-4G-L

Datasheet



Product Overview

- Cisco Catalyst 1000 Series switches provide enterprise-class Layer 2 network infrastructure for small businesses and branch offices.
- The C1000-24FP-4G-L is designed to meet the daily connectivity and security needs in retail, education, and IoT device environments.
- It features 24 Gigabit Ethernet PoE+ ports, a 370W power budget, and four 1G SFP uplinks, ensuring high-speed and efficient network access.
- Enhanced security functions and comprehensive traffic monitoring help maintain network stability and prevent unauthorized access.
- With intuitive device management options, including CLI and web UI, deployment and operations remain simple even for non-expert staff.
- The C1000-24FP-4G-L delivers reliable, flexible, and secure networking to empower business continuity across distributed offices or edge sites.

Product Highlights

- **Power over Ethernet+ Support:** Delivers up to 370W PoE+ power budget, supporting connected devices like access points, phones, and cameras.
- **Versatile Uplink Options:** Equipped with 4 fixed 1G SFP uplink ports for high-speed connectivity to aggregation or backbone switches.
- **Comprehensive Security Features:** Offers 802.1X port security, BPDU Guard, and SPAN for robust device protection and network monitoring.
- **Intuitive Management:** Manage via CLI or web UI, with Bluetooth and SNMP access for smooth deployment and ongoing maintenance.

Detailed Features



C1000-24FP-4G-L

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Component	Specification
Ethernet Ports	24 × 10/100/1000 PoE+
Uplink Ports	4 × 1G SFP
PoE+ Power Budget	370W
Switching Capacity	56 Gbps
Forwarding Rate	41.67 Mpps

High-Capacity Ethernet Ports

With 24 Gigabit Ethernet PoE+ ports, this switch delivers uncompromised connectivity and reliable power to a range of network devices. Supporting line-rate forwarding ensures high throughput regardless of network load, making it capable of handling modern business traffic requirements in real time without bottlenecks.

Flexible Uplink Architecture

Four fixed 1G SFP uplinks increase deployment flexibility, supporting fiber or copper connectivity for link aggregation or redundant paths. This design enables seamless integration into diverse network topologies from small business cores to distributed branches optimizing both uplink performance and network resilience.

Perpetual PoE+ Capability

A dedicated 370W power budget allows perpetual PoE+ support, so critical devices stay powered without interruption even during switch reboots. This ensures surveillance cameras, wireless APs, and IoT endpoints remain operational at all times, minimizing downtime and supporting always-on business continuity.

Robust Security & Monitoring

Feature-rich 802.1X access control, BPDU Guard, and SPAN enable strong endpoint authentication and monitoring. With sFlow-based traffic analysis, network administrators gain deep visibility and quick response to anomalies, keeping user data secure while simplifying regulatory compliance in sensitive environments.

Intuitive Multi-Modal Management

Manage your network efficiently using a familiar CLI, intuitive web UI, or SNMP integration. Bluetooth and USB options streamline configuration and automate routine tasks enabling reduced setup time and simplified day-to-day operations for distributed IT teams or small business owners.

Compact, Space-Saving Design

Fanless model variants support noise-sensitive deployments, while all models are compact at less than 13 inches deep. This enables discreet installation in tight office, classroom, or retail spaces without sacrificing performance or manageability supporting modern workplaces with limited rack real estate.

Bluetooth Device Access

Bluetooth management provides over-the-air access, bringing greater convenience and flexibility for local administrators during deployment or troubleshooting. This unique feature accelerates setup, reduces the need for additional cabling, and simplifies on-site maintenance in dynamic or mobile workspaces.

Enterprise-Class Reliability

Built for long-term performance, the C1000-24FP-4G-L delivers high Mean Time Between Failures (MTBF) and operates reliably in diverse environmental conditions. Enhanced hardware quality, along with multiple global safety and EMC certifications, ensure operational stability across global regions and critical infrastructure scenarios.

Technical Specifications

Product Specifications

Feature	Value
Description	24x 10/100/1000 Ethernet PoE+ ports and 370W PoE budget, 4x 1G SFP uplinks
Gigabit Ethernet Ports	24
Uplink Interfaces	4 SFP
PoE+ Power Budget	370W
Fanless	No
Dimensions (WxDxH in inches)	17.5 x 13.59 x 1.73
RJ-45 Ethernet	1
USB Mini-B	1
USB-A Port for Storage and Bluetooth Console	1
CPU	ARM v7 800 MHz



Feature	Value
DRAM	512 MB
Flash Memory	256 MB
Forwarding Bandwidth	28 Gbps
Switching Bandwidth	56 Gbps
Forwarding Rate (64-byte L3 packets)	41.67 Mpps
Unicast MAC Addresses	16,000
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	1,024
IPv6 Multicast Groups	1,024
IPv4/MAC Security ACEs	600
IPv6 Security ACEs	600
Maximum Active VLANs	256
VLAN IDs Available	4,094
Maximum STP Instances	64
Maximum SPAN Sessions	4
MTU-L3 Packet	9,198 bytes
Jumbo Ethernet Frame	10,240 bytes
Dying Gasp	Yes
MTBF in Hours (Data)	2,026,793
MTBF in Hours (PoE/Full PoE)	698,220
Operating Temperature Seal Level	-5 to 50°C*
For 5,000 ft (1,500 m)	-5 to 45°C
For 10,000 ft (3,000 m)	-5 to 40°C
Operating Altitude	10,000 ft (3,000 m)
Operating Relative Humidity	5% to 90% at 40°C
Storage Temperature	-13 to 158°F (-25 to 70°C)



Feature	Value
Storage Altitude	15,000 ft (4,500 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, 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	* 10BASE-T ports: RJ-45 connectors, 2-pair Category 3, 4, or 5 Unshielded Twisted Pair (UTP) cabling
Ethernet Interfaces	* 100BASE-TX ports: RJ-45 connectors, 2-pair Category 5 UTP cabling
Ethernet Interfaces	* 1000BASE-T ports: RJ-45 connectors, 4-pair Category 5 UTP cabling
Ethernet Interfaces	* 1000BASE-T SFP-based ports: RJ-45 connectors, 4-pair Category 5 UTP cabling
Indicator LEDs	* Per-port status: link integrity, disabled, activity
Indicator LEDs	* System status: system
Console Cables	* CAB-CONSOLE-RJ45 Console cable 6 ft. with RJ-45
Console Cables	* CAB-CONSOLE-USB Console cable 6 ft. with USB Type A and mini-B connectors
Power	* Use the supplied AC power cord to connect the AC power connector to an AC power outlet
Power	* Models have external power supply



Product Comparison

Feature	C1000-24FP-4G-L	C9200L-24P-4X-E	OS6450-24XM
Downlink Ports	24 x 10/100/1000 PoE+	24 x 10/100/1000 PoE+	24 x 10/100/1000
Uplink Ports	4 x 1G SFP	4 x 1G SFP or 4 x 10G SFP+	2 x 10G SFP+ (modular)
Switching Capacity	56 Gbps	56 Gbps	80 Gbps
PoE+ Power Budget	370W	370W	370W
Max VLANs	256	255	4000
Stacking Support	No	Yes (StackWise-160)	Yes (Virtual Chassis)
Management	CLI/Web/Bluetooth/SNMP	CLI/Web/Bluetooth/SNMP	CLI/Web/SNMP
Fan Design	Active	Fanless (on select models)	Fanless

Accessories

Category	Accessories
Included Accessories	- AC Power Cord - Mounting Brackets - Console Cable
Optional Accessories	- SFP Transceiver - Rack Shelf Kit - USB Bluetooth Console Adapter



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References

[1] Cisco. (2024). Cisco Catalyst 1000 Series Switches Data Sheet. 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>