



Cisco

C1-C2960X-24PS-L

Datasheet

Product Overview

- Cisco Catalyst 2960-X Series delivers scalable, stackable Gigabit Ethernet to enable enterprise-grade access in campus and branch networks.
- Ideal for organizations needing reliable wired connectivity, this series fits the needs of businesses, schools, and regional offices seeking robust performance.
- With 24 or 48 GE ports, 4 SFP uplinks, and strong PoE+ support, these switches ensure high forwarding rates and seamless power delivery for endpoints.
- Advanced features like Cisco FlexStack, Perpetual PoE, and enhanced Layer 2/Layer 4 services drive differentiation for demanding environments.
- Intuitive management is provided via Cisco IOS, easy web interfaces, SNMP support, and comprehensive monitoring for streamlined network administration.
- The Catalyst 2960-X boosts uptime and security, helping enterprises maintain secure, scalable, and energy-efficient operations in dynamic network scenarios.

Product Highlights

- **Full-Gigabit Ethernet Ports:** Choose 24 or 48 GE ports that deliver optimal forwarding and consistent performance for enterprise-grade connectivity.
- **Flexible Uplinks:** Access 4 fixed 1G SFP or 2 fixed 10G SFP+ uplinks to speed up critical data aggregation and ensure network flexibility.
- **Power over Ethernet Plus (PoE+):** Support up to 740W total power budget, including Perpetual PoE, to simplify powering essential endpoints like IP phones.
- **Comprehensive Device & Network Management:** Enjoy easy setup and operation via Bluetooth, web UI, CLI, and integration with Cisco DNA Center and Cisco Prime.

Detailed Features



C1-C2960X-24PS-L

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Component	Specification
10/100/1000 Ethernet ports	24
Uplink interfaces	4 SFP
Cisco IOS Software image	LAN Base
Available PoE power	370W
FlexStack-Plus and FlexStack-Extended capability	Y



Comprehensive Security Suite

The Catalyst 2960-X delivers strong access security with MAC-based VLANs, 802.1X authentication, and TrustSec for policy enforcement. Features like RADIUS support and Trust Anchor Technology ensure device integrity and limit unauthorized access across networks.

Advanced QoS and Traffic Control

With up to eight egress queues per port, strict priority queuing, SRR scheduling, and tailored rate limiting, the switch manages diverse data, voice, and video traffic efficiently. This guarantees real-time performance even in demanding enterprise and education deployments.

Scalable Architecture for Growth

Switching Database Manager (SDM) templates help optimize TCAM resources by network role enabling right-sized scaling for MAC, routing, and QoS. Flexible SDM templates simplify large campus upgrades or feature-driven capacity increases.

Redundancy and High Resiliency

Cross-stack EtherChannel and Flex Links enhance resiliency, offering link redundancy and fast failover. The system converges in less than 100ms, keeping disruption minimal in event of hardware or link failures.

SmartOperations & Efficient Deployment

Cisco SmartOperations tools streamline planning and daily admin tasks, from installation to troubleshooting. DHCP auto configuration and one-step AutoSecure CLI cut network setup time and boost consistency in large multi-switch rollouts.

Simple Stacking and Updates

With FlexStack-Plus or FlexStack-Extended, all switches in a stack are centrally managed. Software upgrades and version checks are automatic, ensuring firmware uniformity and reducing risks during expansion or maintenance.

Green Power and Efficient Management

Industry-leading energy-saving features, including intelligent power management and PoE+ control, help cut costs. Perpetual PoE keeps devices powered during switch reboots, maintaining uninterrupted services for critical IP systems.

Seamless Device Profiling and Identity

Advanced sensors and classifiers automatically detect, profile, and secure all connected devices including BYOD units enabling fine-tuned policy enforcement through best-in-class Identity Services Engine compatibility.

Technical Specifications

Product Specifications

Feature	Value
Product Model	WS-C2960X-24PS-L
Enclosure Type	Rack-mountable - 1U
Ports	24 x 10/100/1000 + 4 x 1G SFP
Network Management Interface	10/100 Mbps Ethernet (RJ-45)
Available PoE Power	370W
Forwarding Bandwidth (Gbps)	108Gbps
Maximum Stacking Number	8
Stack Bandwidth	80G
Forwarding Performance	71.4Mpps
Switching Bandwidth	216Gbps
Maximum Active VLANs	1023
MAC Address Table Size	16K (default)
CPU Model	APM86392 600MHz dual core



Feature	Value
RAM	512 MB
Flash Memory	128 MB
Status Indicators	Per-port status: Link integrity, disabled, activity, speed, and full duplex
System Status	System, RPS, Stack link status, link duplex, PoE, and link speed
Expansion / Connectivity	Console ports USB (Type-B), Ethernet (RJ-45); Stacking cable Optional
Power Redundancy Option	PWR-RPS2300
Voltage Range (Auto)	110V-240V
Power Consumption Operational	0.49KVA
Width	17.5 Inches (44.5 cm)
Depth	14.5 Inches (36.8 cm)
Height	1.75 Inches (4.5 cm)
Package Weight	23.48 Pounds (10.65Kg)
Weight	12.8 Pounds (5.8 Kg)
Rack Mounting Kit	optional
MTBF in hours	324,280
Operating Temperature up to 5000 ft (1500 m)	23°F to 113°F
Operating Temperature up to 10,000 ft (3000 m)	23°F to 104°F
Short-term Exception at Sea Level*	23°F to 131°F
Short-term Exception up to 5000 feet (1500 m)*	23°F to 122°F
Short-term Exception up to 10,000 feet (3000 m)*	23°F to 113°F
Short-term Exception up to 13,000 feet (4000 m)*	23° to 104°F
Storage Temperature up to 15,000 feet (4573 m)	-13° to 158°F
Operating Altitude	Up to 10,000 feet
Storage Altitude	Up to 13,000 feet
Operating Relative Humidity	10% to 95% noncondensing
Storage Relative Humidity	10% to 95% noncondensing



Product Comparison

Feature	C1-C2960X-24PS-L	C9200L-48T-4G-E	C1-WS3850-24T/K9
Ports	24 x 10/100/1000 + 4 x 1G SFP	48 x 10/100/1000 + 4 x 1G SFP	24 x 10/100/1000 + 4 x 1G SFP+
PoE Power	370W	None	None
Switching Bandwidth	216Gbps	176Gbps	480Gbps
Stacking Support	FlexStack-Plus, up to 8 units	StackWise-160, up to 8 units	StackWise-480, up to 9 units
Forwarding Performance	71.4Mpps	77.38Mpps	130.95Mpps
Layer 3 Routing	Static, RIP, OSPF	Static, RIP, OSPF	Static, RIP, OSPF, EIGRP, OSPFv3, IPv6
Network Management	Web UI, CLI, SNMP, Bluetooth	Web UI, CLI, SNMP	Web UI, CLI, SNMP
Power Redundancy	Optional RPS2300	Dual redundant PS (optional)	Dual redundant PS (standard)

Accessories

Category	Accessories
Included Accessories	<ul style="list-style-type: none"> - Power Adapter - Mounting Bracket - Quick Installation Guide
Optional Accessories	<ul style="list-style-type: none"> - SFP Transceiver - Stack Cable - Redundant Power Supply Module



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References

[1] Cisco Systems. (2023). Cisco Catalyst 2960-X Series Switches Datasheet. Retrieved from https://www.cisco.com/c/en/us/products/collateral/switches/catalyst-2960-x-series-switches/datasheet_c78-728232.html#SwitchModelsandConfigurations