



Cisco

C1-C2960X-24TS-L

Datasheet

Product Overview

- Cisco Catalyst 2960-X and 2960-XR Series switches provide enterprise-class, stackable Gigabit Ethernet connectivity for business networks.
- These switches are perfect for campus, branch, and small to medium business environments that require secure access with high reliability.
- Equipped with 24 or 48 Gigabit Ethernet ports and up to 4 SFP uplinks, the series delivers strong forwarding performance and scalable stacking.
- Distinctive features include PoE+ support, advanced Layer 2/3 routing, and flexible management through web UI, CLI, and Bluetooth.
- Centralized management options like Cisco DNA Center and Plug and Play allow for faster deployment and simplified lifecycle operations.
- Optimized for easy deployment and robust security, these switches deliver lower TCO, application visibility, network stability, and energy efficiency.

Product Highlights

- **High Port Density:** Offers 24 or 48 Gigabit Ethernet ports with line-rate forwarding for demanding access scenarios.
- **Flexible Uplink Options:** Includes 4 fixed 1G SFP uplinks or 2 fixed 10G SFP+ uplinks for high-speed connectivity.
- **Comprehensive Device and Network Management:** Manage via Web UI, Bluetooth, CLI, SNMP, and Cisco network management platforms.
- **Advanced Stacking and Layer 3 Support:** Supports FlexStack technology and Layer 3 routing features like OSPF, static routing, and RIP.

Detailed Features



C1-C2960X-24TS-L

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Component	Specification
Uplink Interfaces	4 x 1G SFP Ports
Downlink Ports	24 x Ethernet 10/100/1000 Gigabit ports
Switching Capacity	216 Gbps
Stacking Support	Up to 8 units (FlexStack-Plus/FlexStack-Extended)
Management	Web UI, CLI, SNMP, RJ-45/USB console



Comprehensive Network Security

The Catalyst 2960-X Series provides extensive security with MAC-based VLAN assignment, Cisco TrustSec®, 802.1X authentication, and device classification features, mitigating traditional and next-generation network threats.

Advanced Access Control Capabilities

Seamless support for IPv6 First-Hop Security and robust authentication methods help prevent spoofing, unauthorized DHCP, and IPv6-based attacks. These mechanisms are vital for emerging BYOD and IoT scenarios.

Flexible Traffic Management & QoS

The platform features up to eight egress queues per port, strict-priority scheduling, Shaped Round Robin (SRR), and Weighted Tail Drop (WTD), ensuring consistent performance across data, voice, and video flows even under heavy load.

Intelligent Scalability Features

Smart SDM templates allow for dynamic tuning of TCAM resources for optimal MAC, routing, security, and QoS scalability. This makes deployment flexible for a range of corporate network requirements and supports organic growth.

Redundancy and High Availability

Cross-stack EtherChannel and Flex Links enable fast failover and link redundancy. This design supports uninterrupted application access, robust business continuity, and mission-critical uptime.

Operational Efficiency and Automation

Cisco SmartOperations tools streamline LAN planning, deployment, and troubleshooting. Automated stacking upgrades ensure all members run the same firmware, reducing manual intervention and downtime risks.

Simple and Robust Management

Tools like Cisco AutoSecure, DHCP auto-configuration, and unified stack management cut operational effort and speed up network rollouts, making the solution ideal for limited IT resources.

Energy Efficient and Environmentally Friendly

Engineered for low power consumption, these switches support advanced energy-saving mechanisms, solidifying their place as green solutions for sustainable, cost-efficient network infrastructures.

Technical Specifications

Product Specifications

Feature	Value
Product Model	WS-2960X-24TS-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	None
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	APM86392 600MHz dual core
RAM	512 MB



Feature	Value
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, 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	0.039KVA
Width	17.5 Inches (44.5 cm)
Depth	14.5 Inches (36.8 cm)
Height	1.75 Inches (4.5 cm)
Package Weight	20.26 Pounds (9.19Kg)
Weight	8.9 Pounds (4.0Kg)
Rack Mounting Kit	optional
MTBF in hours	622,350
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-24TS-L	C1-N5672UP-8FEX-1G	C9300-48UXM-E
Port Configuration	24 x 10/100/1000 + 4 x 1G SFP	48 x 10G SFP+ + 6 x 40G QSFP+	48 x Multi-Gigabit (100M/1G/2.5G/5G/10G) + 4 x 10G SFP+
Switching Bandwidth	216Gbps	1.44Tbps	960Gbps
Forwarding Rate	71.4Mpps	1,072Mpps	720Mpps
PoE Support	None	None	Yes (UPoE/PoE+ on all ports)
Stacking Support	Up to 8 units	Up to 6 units	Up to 8 units (StackWise-480)
Layer 3 Routing	Static, OSPF, RIP	Advanced (OSPF, IS-IS, BGP, EIGRP)	Advanced (OSPF, EIGRP, BGP, PIM)
Management Interfaces	Web UI, CLI, SNMP, USB/ RJ-45	CLI, SNMP, web-based, API	Web UI, CLI, SNMP, USB/ Bluetooth/APIs
Redundant Power	Optional (RPS2300)	Yes	Yes
Target Scenario	Campus access, SMB/ branch	Data center, high-density aggregation	Enterprise campus, high-speed multi-gig access

Accessories

Category	Accessories
Included Accessories	- Power Cord - Mounting Bracket - Console Cable
Optional Accessories	- SFP Transceiver - Redundant Power Supply Unit (RPS2300) - Stacking Module



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References

[1] Cisco. (2023). 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