

Cisco Catalyst 2960X-24PSQ-L - Switch

Managed - 24 x 10/100/1000 (8 PoE+) + 2 x Gigabit SFP + 2 x 10/100/1000 - desktop - rack-mountable - PoE+ (110 W)

Group	Network Equipment
Manufacturer	Cisco
Manufacturer item no.	WS-C2960X-24PSQ-L
EAN/UPC	0882658554421



Description

Cisco Catalyst 2960-X series switches are fixed-configuration, stackable Gigabit Ethernet switches that provide enterprise-class access for campus and branch applications. Designed for operational simplicity to lower total cost of ownership, they enable scalable, secure and energy-efficient business operations with intelligent services and a range of advanced Cisco IOS Software features.

Main features

Product Description	Cisco Catalyst 2960X-24PSQ-L - switch - 24 ports - Managed - rack-mountable
Device Type	Switch - 24 ports - Managed
Enclosure Type	Rack-mountable 1U
Subtype	Gigabit Ethernet
Ports	24 x 10/100/1000 (8 PoE+) + 2 x Gigabit SFP + 2 x 10/100/1000
Power Over Ethernet (PoE)	PoE+
PoE Budget	110 W
Performance	Switching capacity: 216 Gbps Forwarding performance (64-byte packet size): 71.4 Mpps
Capacity	Active VLANs: 1023
Jumbo Frame Support	9216 bytes
Remote Management Protocol	SNMP 1, RMON 1, RMON 2, RMON 3, RMON 9, Telnet, SNMP 3, SNMP 2c, HTTP, CLI
Features	Full duplex capability, auto-negotiation, BOOTP support, ARP support, VLAN support, auto-uplink (auto MDI/MDI-X), IGMP snooping, Syslog support, DiffServ support, Broadcast Storm Control, IPv6 support, Multicast Storm Control, Unicast Storm Control, Spanning Tree Protocol (STP) support, Rapid Spanning Tree Protocol (RSTP) support, Multiple Spanning Tree Protocol (MSTP) support, DHCP snooping, Dynamic Trunking Protocol (DTP) support, Port Aggregation Protocol (PAgP) support, Trivial File Transfer Protocol (TFTP) support, Access Control List (ACL) support, Quality of Service (QoS), MLD snooping, Dynamic ARP Inspection (DAI), Cisco EnergyWise technology, Unicast Reverse Path Forwarding (URPF), Uni-Directional Link Detection (UDLD), Rapid Per-VLAN Spanning Tree Plus (PVRST+), fanless, Shaped Round Robin (SRR), LLDP support, DHCP relay, Link Aggregation Control Protocol (LACP), MAC Address Notification, Remote Switch Port Analyzer (RSPAN), Hot Standby Router Protocol (HSRP) support, Energy Efficient Ethernet, Management Information Base (MIB), Multicast VLAN Registration (MVR), Strict Priority Queuing (SPQ), Class of Service (CoS), DiffServ Code Point (DSCP) support

Compliant Standards	IEEE 802.3, IEEE 802.3u, IEEE 802.3z, IEEE 802.1D, IEEE 802.1Q, IEEE 802.3ab, IEEE 802.1p, IEEE 802.3af, IEEE 802.3x, IEEE 802.3ad (LACP), IEEE 802.1w, IEEE 802.1x, IEEE 802.3ae, IEEE 802.1s, IEEE 802.3ah, IEEE 802.1ab (LLDP), IEEE 802.3at, IEEE 802.3az, IEEE 802.1AX
Power	AC 120/230 V (50/60 Hz)
Power Redundancy	Optional
Dimensions (WxDxH)	44.5 cm x 28 cm x 4.45 cm
Weight	5.8 kg

Extended details

General	
Device Type	Switch - 24 ports - Managed
Enclosure Type	Desktop, rack-mountable 1U
Subtype	Gigabit Ethernet
Ports	24 x 10/100/1000 (8 PoE+) + 2 x Gigabit SFP + 2 x 10/100/1000
Power Over Ethernet (PoE)	PoE+
PoE Budget	110 W
Performance	Switching capacity: 216 Gbps Forwarding performance (64-byte packet size): 71.4 Mpps
Capacity	Active VLANs: 1023
Jumbo Frame Support	9216 bytes
Remote Management Protocol	SNMP 1, RMON 1, RMON 2, RMON 3, RMON 9, Telnet, SNMP 3, SNMP 2c, HTTP, CLI
Authentication Method	Kerberos, Secure Shell (SSH), RADIUS, TACACS+
Features	Full duplex capability, auto-negotiation, BOOTP support, ARP support, VLAN support, auto-uplink (auto MDI/MDI-X), IGMP snooping, Syslog support, DiffServ support, Broadcast Storm Control, IPv6 support, Multicast Storm Control, Unicast Storm Control, Spanning Tree Protocol (STP) support, Rapid Spanning Tree Protocol (RSTP) support, Multiple Spanning Tree Protocol (MSTP) support, DHCP snooping, Dynamic Trunking Protocol (DTP) support, Port Aggregation Protocol (PAgP) support, Trivial File Transfer Protocol (TFTP) support, Access Control List (ACL) support, Quality of Service (QoS), MLD snooping, Dynamic ARP Inspection (DAI), Cisco EnergyWise technology, Unicast Reverse Path Forwarding (URPF), Uni-Directional Link Detection (UDLD), Rapid Per-VLAN Spanning Tree Plus (PVRST+), fanless, Shaped Round Robin (SRR), LLDP support, DHCP relay, Link Aggregation Control Protocol (LACP), MAC Address Notification, Remote Switch Port Analyzer (RSPAN), Hot Standby Router Protocol (HSRP) support, Energy Efficient Ethernet, Management Information Base (MIB), Multicast VLAN Registration (MVR), Strict Priority Queuing (SPQ), Class of Service (CoS), DiffServ Code Point (DSCP) support
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Processor	: 600 MHz
RAM	512 MB
Flash Memory	128 MB

Status Indicators	Port status, port transmission speed, port duplex mode, system, RPS (Redundant Power Supply), PoE, link/activity
Expansion / Connectivity	
Interfaces	8 x 1000Base-T RJ-45 3 ports (PoE+) / 7 ports (PoE) - 30 W 16 x 1000Base-T RJ-45 2 x 1000Base-T RJ-45 uplink 2 x SFP uplink 1 x 100Base-TX RJ-45 management 1 x console RJ-45 2 x USB Type A 1 x mini-USB Type B management
Power	
Power Device	Internal power supply
Power Redundancy	Optional
Voltage Required	AC 120/230 V (50/60 Hz)
Features	Redundant Power System (RPS) connector
Miscellaneous	
MTBF	462,680 hours
Compliant Standards	CISPR 22 Class A, BSMI CNS 13438 Class A, CISPR 24, EN 61000-3-2, EN 61000-3-3, EN55024, EN55022 Class A, AS/NZS 60950-1, ICES-003 Class A, RoHS, FCC CFR47 Part 15, UL 60950-1 Second Edition, CSA C22.2 No. 60950-1 Second Edition, EN 60950-1 Second Edition, IEC 60950-1 Second Edition, VCCI Class A, KN24, KN22 Class A, RoHS 2011/65/EU, EN 300386
Software / System Requirements	
Software Included	Cisco IOS LAN Base
Dimensions & Weight	
Width	44.5 cm
Depth	28 cm
Height	4.45 cm
Weight	5.8 kg
Manufacturer Warranty	
Service & Support	Limited warranty - advance parts replacement - lifetime - response time: next business day Technical support - consulting - 90 days
Environmental Parameters	
Min Operating Temperature	-5 °C
Max Operating Temperature	45 °C
Humidity Range Operating	10 - 95% (non-condensing)
Min Storage Temperature	-25 °C
Max Storage Temperature	70 °C
Humidity Range Storage	10 - 95% (non-condensing)

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