



Cisco SRW2024P 24-Port Gigabit Switch: WebView/PoE Cisco Small Business Managed Switches

Reliable, Intelligent Switching for Growing Businesses

Highlights

- 24 high-speed ports optimized for the network core or to support bandwidth-intensive applications
- Power over Ethernet easily and cost-effectively powers wireless access points, video cameras, and other network-connected endpoints
- Enhanced QoS helps ensure a consistent network experience and supports networked applications including voice, video, and data storage
- Simplified, web-based management for easy installation and configuration

Figure 1. Cisco SRW2024P 24-Port Gigabit Switch: WebView/PoE



Product Overview

The Cisco® SRW2024P 24-Port Gigabit Switch (Figure 1) allows you to expand your network securely. Web-based configuration of the switch is secured using SSL. User access is verified using 802.1X security with a RADIUS authentication mechanism and can also be controlled using MAC-based filtering.

Extensive quality of service (QoS) features make the solution ideal for real-time applications such as voice and video. The four priority queues, together with the weighted round-robin and strict priority scheduling techniques, facilitate efficient coexistence of real-time traffic with data traffic, allowing each to meet its QoS needs. Individual users or applications can be prioritized above others using various class of service options - by port, Layer 2 priority (802.1p), and Layer 3 priority (type of service [ToS] or differentiated services code point [DSCP]). Intelligent broadcast and multicast storm control minimize and contain the effect of these types of traffic on regular traffic. Internet Group Management Protocol (IGMP) snooping limits bandwidth-intensive video traffic to only the requestors without flooding all users. Incoming traffic can be policed and outgoing traffic can be shaped, allowing you to control network access and traffic flow.

Other features of the Cisco SRW2024P allow you to expand and grow your network of switches. Link aggregation allows multiple high-bandwidth trunks between switches to be set up. This also

provides reliability, in that the system continues to operate if one of the links breaks. Spanning Tree Protocol (STP), Fast STP, and Rapid STP (RSTP) allow you to build a mesh of switches, increasing the availability of the system.

The rich features of the WebView management software include Simple Network Management Protocol (SNMP), Remote Monitoring (RMON), Telnet, and HTTP management options, allowing you to flexibly integrate and manage these devices in your network.

Automatic load sensing in the power control circuitry automatically detects Power over Ethernet (PoE) on the access point before providing power. Power feeding of Ethernet is limited for fixed 10BASE-T/100BASE-TX ports. The switch can provide maximum output power per PoE port up to 15.4W on 12 ports or 7.5W on 24 ports simultaneously. Each port has independent overload and short-circuit protection, with LED indicators for power status. The switch also supports IEEE802.3af MIB for PoE, IEEE 802.1d STP, IEEE 802.1w RSTP, Fast Linkover, and cable diagnostics.

Features

- Twenty-four 10/100/1000 switched RJ-45 ports deliver up to 2 Gbps of throughput per port
- Two shared 10/100/1000 mini Gigabit Interface Converter (mini-GBIC) ports
- Switching capacity delivers wire-speed performance at 48 Gbps nonblocking capacity
- WebView monitoring allows administrators to view the current status and configuration using their favorite web browser
- PoE on twenty-four 10/100/1000 ports supplies up to 7.5W per port, or on twelve 10/100/1000 ports supplies up to the IEEE 802.3af maximum of 15.4W per port
- Automatic medium dependent interface (MDI) and MDI crossover (MDI-X) cable detection
- Port-based and 802.1Q-based VLANs support up to 256 VLANs-4096 range
- Port trunking for up to 8 groups allows you to increase your bandwidth for each uplink or server connection
- Port configuration settings for link, speed, auto MDI/MDIX, flow control, and more
- Fully rack mountable using the included rack-mounting hardware
- MAC address table supports up to 8000 MAC address entries
- Optimal platform to support real-time applications such as voice and video by providing features like Internet Group Management Protocol (IGMP) snooping; multiple queues (4) with appropriate scheduling techniques; prioritization of traffic based on port, 802.1p, IP ToS/precedence/DSCP, TCP/User Datagram Protocol (UDP) port, and line rate forwarding mechanisms
- Enhanced QoS functions including rate limiting for ingress/egress and per flow at 64 kbps granularity
- Secure control via SSH for Telnet interface and SSL for HTTP interface
- User/network security via 802.1X (with RADIUS authentication)
- Advanced security ACL can be a restricted-access network by denying or rate-limiting based on L1-L4 information- for example, MAC address, Ethernet type, VLAN ID, IP address, protocol ID, or TCP/UDP port
- Containment of storms - broadcast, multicast, and unknown unicast
- Expandability and availability increased across multiple switches using link aggregation

- Port trunking for up to eight groups with up to eight ports per group allows you to increase your bandwidth for each uplink or server connection
- SNMP and RMON management expand your visibility options

Specifications

Table 1 contains the specifications, package contents, and minimum requirements for the Cisco SRW2024P 24-port Gigabit Switch.

Table 1. Specifications for the Cisco SRW2024P 24-port Gigabit Switch: WebView/PoE

Specifications	
Ports	24 RJ-45 connectors for 10BASE-T, 100BASE-TX, and 1000BASE-T with 2 shared Small Form-Factor Pluggable (SFP) slots
Cabling type	Unshielded twisted pair (UTP) Category 5 or better for 10BASE-T/100BASE-TX; UTP Category 5 Ethernet or better for 1000BASE-T
LEDs	Power, Link/Act, Speed
Performance	
Switching capacity	48 Gbps, nonblocking
MAC table size	8000
Number of VLANs	256 active VLANs - 4096 range
Management	
Web user interface	Built-in web user interface for easy browser-based configuration (HTTP/HTTPS)
SNMP	SNMP versions 1 and 2c with support for traps
SNMP MIBs	RFC1213 MIB-2, RFC2863 interface MIB, RFC2665 Ether-like MIB, RFC1493 bridge MIB, RFC2674 extended bridge MIB (P-bridge, Q-bridge), RFC2819 RMON MIB (groups 1, 2, 3, and 9 only), RFC2737 entity MIB, RFC 2618 RADIUS client MIB
RMON	Embedded RMON software agent supports 4 RMON groups (history, statistics, alarms, and events) for enhanced traffic management, monitoring, and analysis.
Firmware upgrade	<ul style="list-style-type: none"> • Web browser upgrade (HTTP) • Trivial File Transfer Protocol (TFTP) upgrade
Port mirroring	Traffic on a port can be mirrored to another port for analysis with a network analyzer or RMON probe.
Other management	<ul style="list-style-type: none"> • RFC854 Telnet (menu-driven configuration) • SSH and Telnet management • SSL security for web user interface • Switch audit log • Dynamic Host Configuration Protocol (DHCP) client • BOOTP • Simple Network Time Protocol (SNTP) • Xmodem upgrade • Cable diagnostics • Ping
Security Features	
IEEE 802.1X	802.1X - RADIUS authentication. MD5 encryption
Access control	<ul style="list-style-type: none"> • Filtering: MAC based • MAC source address (SA)/destination address (DA) • IP SA/DA • Ethernet type field • Protocol • TCP/UDP port numbers
Availability	
Link aggregation	<ul style="list-style-type: none"> • Link aggregation using IEEE 802.3ad Link Aggregation Control Protocol (LACP) • Up to 8 ports in up to 8 trunks
Storm control	Broadcast, multicast, and unknown unicast

Spanning Tree	IEEE 802.1d Spanning Tree, IEEE 802.1w Rapid Spanning Tree, Fast Linkover
IGMP snooping	IGMP (version 1 and 2) snooping provides for fast client joins and leaves of multicast streams and limits bandwidth-intensive video traffic to only the requestors.
QoS	
Priority levels	4 hardware queues
Scheduling	Priority queuing and weighted round-robin (WRR)
Class of service (CoS)	<ul style="list-style-type: none"> • Port based • 802.1p VLAN priority-based CoS • IPv4 DSCP-based CoS • IPv4 ToS/IP precedence-based CoS
Layer 2	
VLAN	<ul style="list-style-type: none"> • Port-based and 802.1Q-based VLANs • Management VLAN
Head-of-line (HOL) blocking	HOL blocking prevention
Jumbo frame	Supports frames up to 10 KB
Standards	802.3 10BASE-T Ethernet, 802.3u 100BASE-TX Fast Ethernet, 802.3ab 1000BASE-T Gigabit Ethernet, 802.3z Gigabit Ethernet, 802.3x flow control
Environmental	
Dimensions W x H x D	16.93 x 1.75 x 13.78 in. (430 x 45 x 350 mm)
Unit weight	7.30 lb (3.3 kg)
Power	100–240V 0.5A
Certification	FCC Part 15 Class A, CE Class A, UL CSA (CSA22.2), CE mark, CB
Operating temperature	32° to 122°F (0° to 45°C)
Storage temperature	-4° to 158°F (-20° to 70°C)
Operating humidity	20% to 95%
Storage humidity	5% to 90%
Package Contents	
<ul style="list-style-type: none"> • Cisco SRW2024P 24-port Gigabit Switch • AC power cord • Rack-mounting kit with brackets and hardware • CD with user guide in PDF format • Online registration card • Console cable 	
Minimum Requirements	
<ul style="list-style-type: none"> • Web-based utility: Microsoft Internet Explorer version 5.5 or later • Category 5 Ethernet network cables • Operating system: Windows 2000, XP, or later 	
Product Warranty	
5-year limited hardware warranty with return to factory replacement and 90-day limited software warranty	

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