

CS-2424G-24P

24 Port 10/100/1000M Gigabit Web Managed PoE+ Switch with 4 Combo Gigabit Ports (450Watt Power)

EAN Code : 4712757159042

Introduction

CERIO CS-2000 Series Model: CS-2424G-24P A3 version is the latest powerful high-performance 24 port Gigabit PoE switch, **supporting 4 Combo Gigabit** ports, and is compliant with POE+ **IEEE 802.3at and 802.3af** standards. This layer 2 Web Management switch includes a 450watt internal power supply, providing a 400watt PoE power budget, and supports Remote on/off control of PoE power ports. The **CS-2424G-24P** A3 version layer 2 functions include Spanning Tree and Rapid Spanning Tree Protocol, IEEE802.1Q Tag/Port Based VLAN functions, IEEE802.1p-based/Port-based QoS bandwidth control, IGMP Snooping, Link Aggregation Control Protocol (LACP), and much more. This device can solve the limitation of the power outlet locations and offer the system relocation convenience

CERIO's CS-2424G-24P A3 version PoE+ Switch is designed for office deployment and can be upgraded to 1U" chassis for server room installation. It is ideal for micro-segmenting large network into smaller networks, connecting subnets for improved performance, and enabling the bandwidth demanded for multimedia and imaging applications. The built-in 4 Combo Gigabit ports make this device perfect for fiber or RJ45 Gigabit uplinks, while maintaining gigabit speeds for connected Ethernet devices.

The **CS-2424G-24P** A3 version is a feature packed web managed gigabit PoE switch, providing enterprise grade function at a competitive price point. Deploying **CS-2424G-24P** A3 version in your network can provide network organization and improved efficiency for your devices and clients.



Administrators using **CS-2424G-24P** A3 version can meet the increasing management requirements when deploying **Wireless AP or VoIP phone or IP Camera**. Cerio's web-managed switches offer convenient configuration which ultimately provides premium performance, easy installation, and is sure to meet the increasing demands of growing networks.

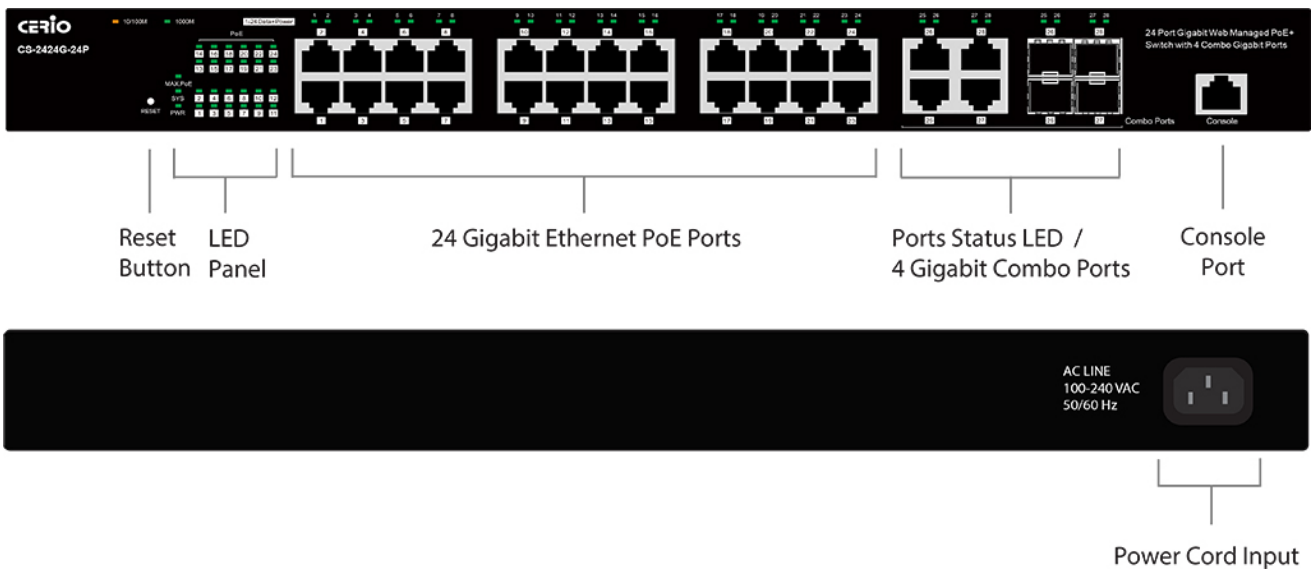
Highlight Features

- Complying with IEEE 802.3 10Base-T, IEEE 802.3u 100Base-TX, IEEE 802.3ab 1000Base-T, IEEE 802.3z 1000Base-SX/LX IEEE-802.3af PoE, IEEE802.3at POE+.
- 24port 10/100/1000Mbps TX Auto-Negotiation Ethernet Switch, Have 24 Port PSE/ PoE function, compliant with IEEE-802.3af class3 /class2/class1 and IEEE802.3at.
- Supports 4 Combo Gigabit uplink ports for connecting MiniGBIC 1000Base-SX/LX fiber modules or RJ45 Gigabit uplinks.
- Supports PoE Green Power Energy Saving function to automatically detect connected devices and smartly direct necessary output wattage to only those ports to achieve green power saving.
- Supports power of up to 30Watt /15.4Watt /7.5Watt/4Watt for each PSE/PoE port.
- Internal 450 Watt power supply supports a maximum PoE power budget of 400 Watt.
- Supports PoE Control with scheduling capabilities and port-based control.

- Supports remote power control of PoE powered devices (PD), allowing web-based on/off/reboot control and supports monitoring of individual port PoE consumption (wattage).
- Supports PoE Power Priority per port with three priority options and support per port PoE power delay function.
- Full/Half-Duplex capability on each TX port , Auto-learning networking configurations.
- Supports store & forward operation.
- Supports flow control: back pressure for Half-duplex and IEEE 802.3x for Full-duplex mode.
- Non-blocking & Non-head-of-line blocking full-wire speed forwarding.
- Supports TP interface Auto MDIX function for auto TX/RX swap.
- Automatic Source MAC Address Learning and Aging.
- Provides 9.6K Jumbo frames to improve network utilization of a large file transfers.
- Supports up to 8K MAC addresses and 4Mb Packet buffer.
- Supports Surge Protection 6KV to avoid the damage of the switch and connected devices.
- VLAN and IEEE802.1Q tag-base VLAN based on ports & VIDs; add/remove/modify tag.
- Supports Voice VLAN / MAC VLAN / Surveillance VLAN / Protocol VLAN and GVRP etc.
- Supports Broadcast / multicast / unknown unicast storm control.
- Provides IGMP snooping v1/v2/v3 function and supports MLD snooping and MVR.
- IEEE802.3ad Link Aggregation LACP.
- Supports 802.1x protocol to support CHAP, EAP mode and port/MAC based network access control.
- Supports RADIUS/TACACS+ and AAA Certificate function.
- Supports MAC Table Management.
- Supports MAC/IPv4 and IPv6 ACL (Access Control List) security management.
- Supports IPv6 Internet Protocol, IPv6 Auto-configuration mechanism and DHCPv6 Client and other functions to facilitate the setting and management of IP addresses.
- Supports DoS (Denial of Service) Defense for enhanced network security.
- Firewall Dos supports POD, LAND, UDP Blat, TCP Blat, Null /X-Man Scan Attack, TCP SYN-FIN/SYN-RST Attack, Smurf Attack and other defense function.
- Supports Dual Image function, which can shorten the downtime during the switch firmware upgrade or downgrade, and supports Active firmware image, Backup firmware image security backup mechanisms.
- Link Layer Discovery Protocol (LLDP) and LLDP-MED.
- Supports DHCP Snooping function to prevent access by unauthorized hosts and DHCP servers and supports DHCP Option 82 and Option82 Circuit ID provides additional security.
- Each port supports limiting the number of MAC Addresses with IP and MAC address Binding.
- Supports QoS Quality of Service, Port-based QoS bandwidth management, 802.1q priority Tag based with 8 priority Queues and 8 Weights.
- Supports bandwidth control to set control traffic limits (inflow and outflow) for each port
- Supports Port Mirroring function.
- Supports Spanning Tree Protocol (STP) , Rapid Spanning Tree Protocol (RSTP) and Multiple Spanning Tree Protocol (MSTP).
- Supports UDLD (Unidirectional link detection), which can monitor the link status and prevent network problems.
- Support proxy DNS server, SNTP time server network time synchronization function, it can automatically adjust the host to update the time, easy to understand the problem and restore.
- Supports Event Log, Alarm Log, Security Log, Network Log, and Protocol Log.

- Supports file backup and recovery.
- Software management service supports setting Console / Telnet / SSH / HTTP / HTTPS/SNMP.
- Supports GUI display for monitoring network data status by port, traffic analysis by port, and device CPU and Memory loading for convenient administrative network analysis and management.
- Supports Simple Network Management Protocol (SNMPv1/v2c/v3) Web-based management interface.
- Support PoE Watchdog function, which can perform online or offline detection for each PD device that is powered, also can re-send the power (PoE) to PD device or warning notification according to the corresponding mechanism.

Hardware Overview



Standards & Hardware Specifications

Network Standards Conformance

IEEE 802.3 10Base-T
 IEEE 802.3u 100Base-TX,
 IEEE 802.3ab 1000Base-T,
 IEEE 802.3z 1000Base-SX/LX
 IEEE 802.3x Flow Control
 IEEE 802.1p QoS
 IEEE 802.1Q VLAN Tag
 IEEE 802.3ad Link Aggregation
 IEEE 802.3af Power over Ethernet (15.4Watt PoE)
 IEEE 802.3at Power over Ethernet Plus (30Watt PoE+)

Port Configuration

24 ports RJ-45 connectors for 10/100/1000 BASE-T and PSE/ PoE function
 4 Combo Gigabit Uplink Ports
 1 RJ45 Console Port

Hardware Reset

Reset button for returning to factory settings

Surge Protection

Supports 6kV surge protection on RJ45 connection port

Media Access Protocol

CSMA / CD

Network Media

10BASE –T: UTP Cat. 3 or up,
 100BASE-TX: UTP Cat. 5 or up,
 1000BASE-T: UTP Cat. 5 or up

Transmission Method

Store and Forward

MAC Address Table

8K

Built-in Buffer

4Mb

Jumbo Frame

9.6K

Data Transfer Rate

10/100/1000Mbps (Half-duplex),
 20/200/2000Mbps (Full-duplex)

Auto MDI/MDIX

Yes

LED Indicators

Per Port: Link Status	x24
Per Port: Activity Status	x24
Per Port: (PoE) : Status	x24
Gigabit Combo Port: RJ 45 Connection Status	x4
Gigabit Combo Port: SFP Connection Status	x4
Per Unit: (PWR)	x1

Per Unit: (SYS)

x1

Internal Bus Speed

56Gbps

Switch Specifications

Link Aggregation

IEEE802.3ad LACP Link Aggregation Supported

Port Mirror

Supported

Quality of Service (QoS)

Supports IEEE 802.1p QoS, Port-based QoS

Bandwidth Control

Supported

Spanning Tree(STP)

Supported

Rapid Spanning Tree(RSTP)

Supported

Multiple Spanning Tree Protocol (MSTP)

Supported

IGMP Snooping

Supports v1, v2, v3 and MVR

ACL Security Management

Supports IPv4 / IPv6 and MAC management

DHCP Security Detection

Supports DHCP Snooping / DHCP Option 82/ Option82 Circuit ID

IPv6 Management Function

Supports IPv6 Internet Protocol, IPv6 Auto-configuration mechanism and DHCPv6 Client

Dual Image Function

Supports Dual image, Active firmware image and Backup firmware image

SNTP Time Server

Supported

VLAN

IEEE802.1Q Tagging VLAN , Port-Based ,Tag based VLAN

SNMP

Supports SNMP v1/v2c/v3

Authentication Security Protocol

Supports RADIUS / TACACS+ and AAA

Virtual Network Management VLAN

Supports Voice VLAN / MAC VLAN / Surveillance VLAN / Protocol VLAN and GVRP

Port Security Management

Supports Broadcast / multicast / unknown unicast storm control

Environmental & Mechanical Characteristics

Power Type

450 Watt Internal Power Supply

PoE Power Budget

400 Watt shared for all PoE ports

Power Consumption

13.3 Watt (max. with no PoE Device connected)

PoE Power Output

Up to 30W per port, 54V DC

Power Requirements

AC 100~240VAC, 50-60Hz Auto-sensing

Operating Temperature

0° to 40° C

Storage Temperature

-40° to 70° C

Operating Humidity

10% to 90% non-condensing

Storage Humidity

10% to 90% non-condensing

Dimensions (W x D x H)

441 x 270 x 44 mm

Unit Weight

4.02kg

Production Location

TW or CN

Certifications

FCC, CE, RoHS-Compliant

Package Contents

Contents

CS-2424G-24P Main Unit	x1
Power Cord	x1
Console Cable	x1
19" Rack Mount Brackets	x1
Warranty Card	x1