

## CS-2424G-24P

**24 Port 10/100/1000M Gigabit Web Managed PoE+ Switch with 4 SFP Ports (400Watt Power)**

EAN Code : 4712757159042



### Introduction

**CERIO CS-2000 Series Model: CS-2424G-24P** is the latest powerful high-performance 24 port Gigabit PoE switch with version A2, **supporting 4 SFP** uplink ports, and is compliant with POE+ **IEEE 802.3at and 802.3af** standards. This layer 2 Web Management switch includes a 400watt internal power supply, providing a 350watt PoE power budget, and supports Remote on/off control of PoE power ports. CS-2424G-24P 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** PoE+ Switch is designed for office deployment and can be upgraded to 1U" chassis for server room installation. CS-2424G-24P 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 SFP ports make this device perfect for fiber uplinks, while maintaining gigabit speeds for connected Ethernet devices.

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

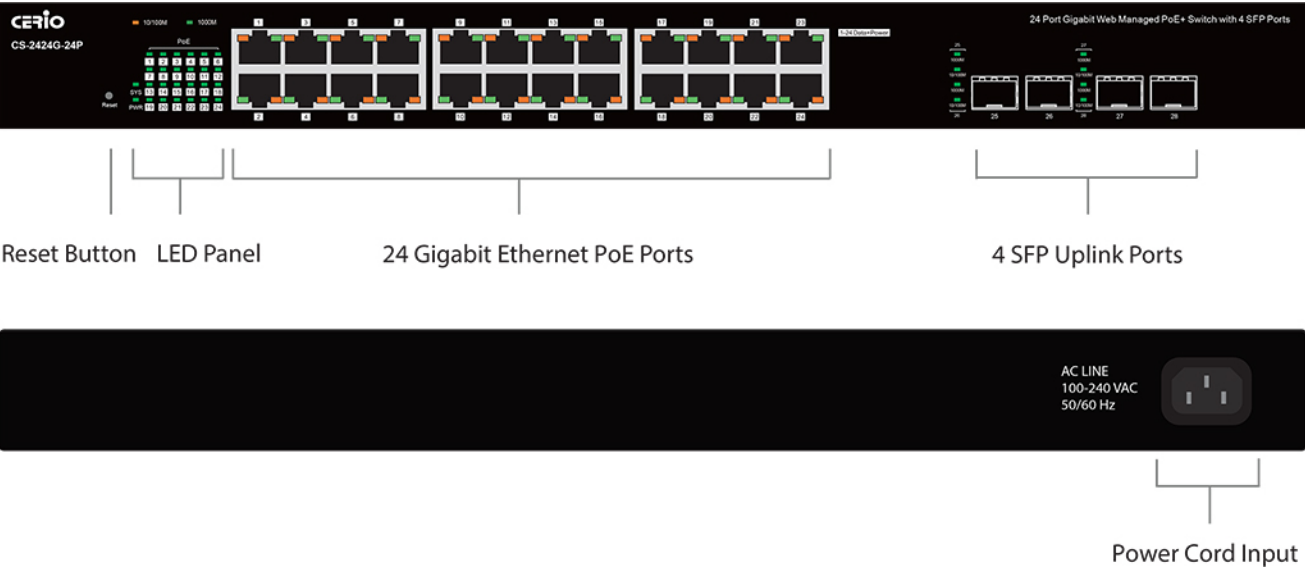
Administrators using CS-2424G-24P can meet the increasing management requirements when deploying **Wireless AP or VoIP phone or IP Camera**. Cerio's web-managed switches offer convenient configuration which ultimately provides premium performance, easy installation, and is sure to meet the increasing 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 Gigabit SFP uplink ports for connecting MiniGBIC 1000Base-SX/LX fiber modules
- 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 400 Watt power supply supports a maximum PoE power budget of 350 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
- Up to 4Mb Packet buffer
- VLAN and IEEE802.1Q tag-base VLAN based on ports & VIDs; add/remove/modify tag
- Supports Voice VLAN / MAC VLAN and GVRP
- 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 DoS (Denial of Service) Defense for enhanced network security
- 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 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) and Rapid Spanning Tree Protocol (RSTP)
- Supports Proxy DNS Server, NTP Network Time synchronization function
- Supports Event Log, Alarm Log, Security Log, Network Log, and Protocol Log
- 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 file backup and recovery
- Supports Simple Network Management Protocol (SNMPv1/v2c/v3) Web-based management interface

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 ( 15.4 Watt PoE+ )  
IEEE 802.3at Power over Ethernet Plus ( 30 Watt PoE+ )

#### Port Configuration

24 ports RJ-45 connectors for 10/100/1000 BASE-T and PSE/ PoE function  
4 SFP Uplink Ports

#### Hardware Reset

Reset button for returning to factory settings

#### 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
SFP Port: Connection Status	x8
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

#### IGMP Snooping

Supports v1, v2, v3 and MVR

#### 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 and GVRP

#### Port Security Management

Supports Broadcast / multicast / unknown unicast storm control

### Environmental & Mechanical Characteristics

#### Power Type

400 Watt Internal Power Supply

#### PoE Power Budget

54V for 350 Watt shared for all PoE ports

#### Power Consumption

12V for 26.5 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

# DATA SHEET

WEB MANAGED POE SWITCH SERIES

## Package Contents

Dimensions ( W x D x H )
441 x 310 x 44 mm
Unit Weight
4.18kg
Certifications
FCC, CE, RoHS-Compliant

Contents	
<b>CS-2424G-24P</b> Main Unit	x1
CD Manual	x1
Power Cord	x1
19" Rack Mount Brackets	x1
Warranty Card	x1