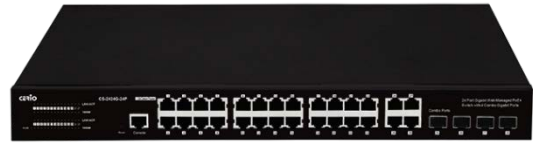**CERIO**
Amplify your Wireless Network

CS-2424G-24P

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

EAN Code : 4712757159042

CERIO CS-2000 Series Model: CS-2424G-24P A5 version is the latest powerful high-performance 24 port Gigabit PoE switch, **supporting 4 Combo Gigabit** ports, and compliant with **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 share for 24 ports of PoE port, and supports Remote on/off control of PoE power ports.

The **CS-2424G-24P** layer 2 functions include Spanning Tree and Rapid Spanning Tree Protocol, IEEE 802.1Q Tag / Port Based VLAN functions, IEEE 802.1p-based/ Port-based, QoS bandwidth control, IGMP Snooping, Link Aggregation Control Protocol (LACP), and much more. At the same time, it can control layer 2 bandwidth management and loop detection and prevention, etc. for large enterprise network security management. This device can solve the limitation of the power outlet locations and offer the system relocation convenience

The **CS-2424G-24P** 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 Mini GBIC 1000Base-SX/LX fiber or RJ45 Gigabit uplinks, while maintaining gigabit speeds for connected Ethernet devices.

The **CS-2424G-24P** is providing enterprise grade function at a competitive price point. Deploying it in your network can provide network organization and

improved efficiency for your devices and clients. Administrators using this switch 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.
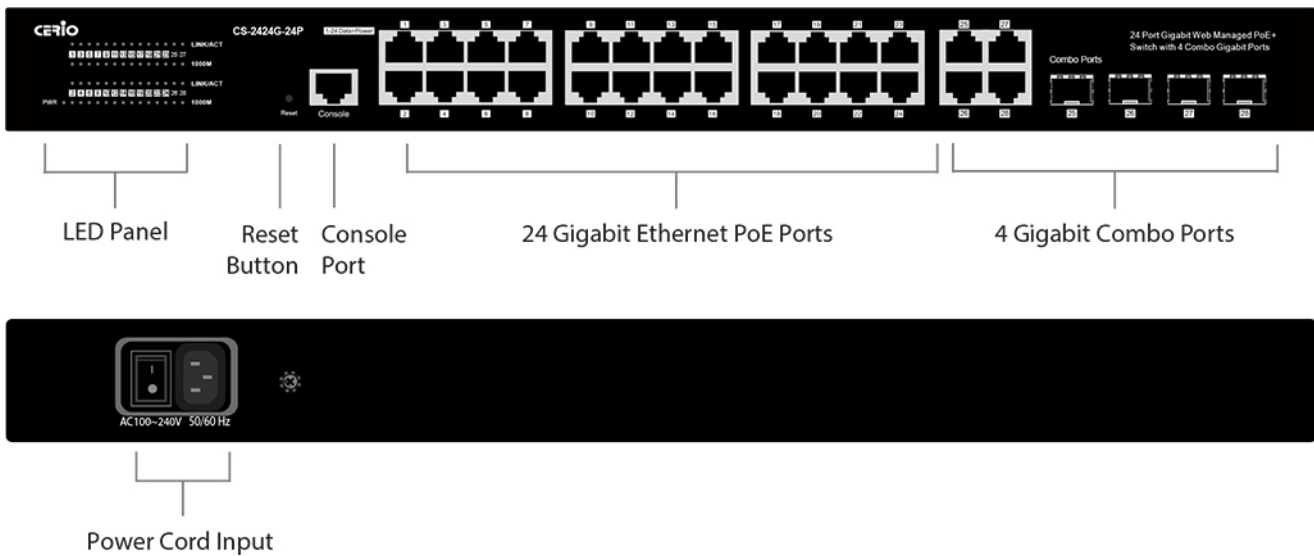
Highlight Features

- 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 and IEEE 802.3at PoE+ standards.
- 24port 10/100/1000Mbps TX Auto-Negotiation Ethernet Switch, supports 24 Port Gigabit PSE/PoE function and compliant with IEEE 802.3af class3 / class2 / class1 and IEEE 802.3at class4 standards.
- Supports 4 Combo Gigabit uplink ports for RJ45 Gigabit uplinks connecting or Mini GBIC 1000Base-SX/LX fiber modules for long-distance network applications.
- 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.
- Supports PoE Control with scheduling capabilities and port-based control.
- Internal 450 Watt power supply supports a maximum PoE power budget of 400 Watts share for 24ports 10/100/1000M of PoE port.

- 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 4.1Mb Packet buffer.
- Supports VLAN and IEEE802.1Q tag-base VLAN based on ports & VIDs; add/remove/modify tag.
- Supports Voice VLAN / MAC VLAN and GVRP etc.
- Supports Broadcast / multicast / unknown unicast storm control.
- Provides IGMP snooping v1/v2/v3 function and supports MLD snooping and MVR.
- Supports 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.
- Link Layer Discovery Protocol (LLDP).
- 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).
- RMON (Remote Network Monitoring) provides network administrators with the ability to select network-monitoring probes with features that meet their business network needs.
- Supports IPSG (IP Source Guard) provides source IP address filtering on a Layer 2 port to prevent a malicious host from impersonating a legitimate host by assuming the legitimate host's IP address.
- 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 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.
- Software management service supports setting Console / Telnet / SSH / HTTP /HTTPS/SNMP.

- Supports Simple Network Management Protocol (SNMPv1/v2c/v3) Web-based management interface.

Hardware Overview

LED Panel | Reset Button | Console Port | 24 Gigabit Ethernet PoE Ports | 4 Gigabit Combo Ports

Power Cord Input

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 802.3az EEE
IEEE 802.3x Flow Control
IEEE 802.1p QoS
IEEE 802.1Q VLAN Tag
IEEE 802.3ad Link Aggregation
IEEE 802.1x Authentication
IEEE 802.3af Power over Ethernet (15.4W PoE)
IEEE 802.3at Power over Ethernet Plus (30W 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

Power Switch
Hardware power on/off switch design

Grounding Port
Metal case design supports surge grounding and grounding port.

Surge Protection
Supports 6kV surge protection on RJ45 port

ESD Protection
Air : 15KV , Contact : 8KV

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
4.1Mb

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/Activity Status	x24
Per Port: 1000M/Gigabit Sttus	x24
Gigabit Combo Port: RJ 45 Connection Status	x4
Gigabit Combo Port: SFP Connection Status	x4
Per Unit: PWR	x1
Internal Bus Speed/Exchange Rate	
56Gbps/ 41.664Mpps	

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
UniDirectional Link Detection (UDLD)
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
Remote Network Monitoring (RMON)
Supported
SNTP Time Server
Supported
VLAN
IEEE 802.1Q 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
52V for 400 Watt shared for all PoE ports
Power Consumption
20 Watt (max. with no PoE Device connected)
PoE Power Output
Up to 30W per port, 52V 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)
440 x 280 x 44 mm
Unit Weight
3.9kg
Production Location
TW
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

SFP / SFP+ / RJ45 Copper Transceiver Module

1.25Gbps/Gigabit SFP/RJ45 Series

Model No.	Photo	Description	Compatible Switch
SRJ-GT		1000BASE-T SFP Copper RJ45 Transceiver 100m	CS-1224G CS-2424G CS-34816XG
SLC-GSXM		1.25Gbps SFP SX 850nm 550m LC Multi-Mode DDM	CS-1216G-16P CS-1216G-8P8T CS-1224G-24P
SLC-GLXS10		1.25Gbps SFP LX 1310nm 10KM LC Single-Mode DDM	CS-2208G-8P CS-2424G-24P CS-3416G-16P CS-3424G-24P

10Gbps SFP+/RJ45 Series

Model No.	Photo	Description	Compatible Switch
SRJ-10GT		10GBASE-T SFP+ Copper RJ45 Transceiver 30m	
SLC-10GSRM		10GBASE-SR SFP+ 850nm 300m LC Multi-Mode DDM	CS-2648XG CS-34816XG CS-2648XG-48P
SLC-10GLRS10		10GBASE-LR SFP+ 1310nm 10KM LC Single-Mode DDM	
AOC-10G01		1M 10GBASE-T SFP+ to SFP+ Active Optical Cables Cable	