

# CSL3LR-04C24GHP-S

Access Switch Layer 3 Lite Managed

24x10/100/1000M RJ45 PoE (Port 1-2 PoE++ BT90w), 4x1000M Combo (RJ45/SFP)



## Overview

Delivering powerful connectivity and intelligent power management, this 24-port industrial PoE switch is designed for high-performance networks in demanding environments. Ports 1-2 provide high-power PoE++ up to 90W, while the remaining ports support IEEE 802.3af/at for a total PoE budget of 400W, enabling seamless operation of IP cameras, wireless access points, and other PoE devices.

Built for reliability, it features a rugged IP30 metal enclosure, 6 kV surge protection, and a wide operating temperature range. With intuitive web-based management and clear LED indicators, this switch ensures effortless monitoring and maintenance, making it ideal for industrial automation, smart surveillance, and enterprise network deployments.

## Features

- 24x10/100/1000M RJ45 PoE (Port 1-2 PoE++ BT90w), Uplink 4x1000M Combo
- Compliant with IEEE 802.3, IEEE 802.3u, IEEE 802.3ab standards
- Ethernet port 10/100/1000M adaptive
- Support port auto flip (Auto MDI/MDIX)
- Support WEB, TELNET, CLI, SSH, SNMP, RMON management
- CE/FCC/RoHS Certified

## Specifications

|                       |  |
|-----------------------|--|
| Fixed Port            | 24x10/100/1000M RJ45 PoE (Port 1-2 PoE++ BT90w)<br>4x10/100/1000M RJ45 (Combo)<br>4x100/1000M SFP (Combo)  |
| Console Port          | 1*console port   |
| PoE Ports             | 1-2 ports support IEEE802.3af/at/bt, Max. 90W PoE out<br>3-24 ports support IEEE802.3af/at, Max. 30W PoE out   |
| Console Port          | 1*Console  |
| Reset Key             | 1  |
| PoE Pin               | af/at/bt: 1 2+, 4 5+; 3 6-, 7 8-<br>af/at: 1 2+, 3 6-  |
| PoE Budget            | Max. 400w  |
| CPU                   | 500MHz   |
| DDR                   | 1G DDR3  |
| FLASH                 | 128MBytes  |
| RAM                   | 128MBytes  |
| Bandwidth             | 56Gbps   |
| Packet Forwarding     | 41.67Mpps  |
| MAC                   | 8K   |
| Packet Buffer         | 4.1Mbit SRAM   |
| Jumbo Frame           | 10K Bytes  |
| VLAN Address          | 4K   |
| Transmission Distance | 10BASE-T: Cat3, 4, 5 UTP ( $\leq 250m$ )<br>100BASE-TX: Cat5 or later UTP (150m)<br>1000BASE-TX: Cat6 or later UTP (150m)<br>SFP: 1000M SMF/MMF optical module with max. distance $\leq 120km$ |
| LED Indicators        | PWR: Power LED<br>SYS: System LED<br>1-24: 10/100/1000M Network connection indicator<br>25-28: 10/100/1000M Network connection indicator   |
| Power                 | AC100~240V, 5.1A, Max. 425W  |
| Operating Temperature | -10~+55°C  |
| Operating Humidity    | 5%~90% RH Non-condensing   |
| Storage Temperature   | -40~+75°C  |

|                            |   |
|----------------------------|---|
| Storage Humidity           | 5%~95% RH Non-condensing  |
| Product Size (L x W x H)   | 440x290x45mm  |
| Package Size (L x W x H)   | 515x375x95mm  |
| N.W.                       | 3.5kg   |
| G.W.                       | 4.2kg   |
| Lightning Protection Level | 6KV 8/20us; IP30  |
| Installation               | Rack-mount  |
| Certificates               | CE/FCC/RoHS   |
| Warranty                   | 1 year  |
| <b>Software Functions</b>  |   |
| Port Shutdown              | Support   |
| Port Speed                 | Support auto negotiate, full-1000, full-100, half-100, full-10, half-10   |
| Flow Control               | Support full-duplex IEEE 802.3x, half-duplex back pressure  |
| Storm Control              | Support rate limit for broadcast, multicast, and DLF packets  |
| Storm Constrain            | Support the detection of broadcast packets, multicast packets, or multicast packets on the port, shutdown the port if the rate is over the threshold.   |
| Port Mirror                | Support   |
| Port Rate Limit            | Support port ingress and egress rate limit  |
| Link Aggregation           | Support manual link aggregation<br>Support LACP dynamic link aggregation<br>Supports up to 8 aggregation groups, each group up to 8 ports<br>Support source MAC, destination MAC, source destination MAC, source IP, destination IP, source destination IP routing strategy |
| Port Isolation             | Support   |
| Jumbo Frame                | Support up to 10KB  |
| Cable Distance Diagnosis   | Support   |
| Redundant Port             | Support   |
| DDM of Fiber Ports         | Support   |
| <b>MAC</b>                 |   |
| MAC Table Capacity         | 8K  |
| MAC Table Management       | Support   |
| Forwarding Mode            | Support IVL forwarding mode   |
| Static MAC Address         | Support   |

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| MAC Address Binding          | Support   |
| MAC Learning Control         | Control the MAC learning based on port  |
| <b>VLAN</b>                  |   |
| Number of Vans               | 4K  |
| 802.1Q-based VLAN            | Support   |
| MAC-based VLAN               | Support   |
| IP-based VLAN                | Support   |
| Protocol-based VLAN          | Support   |
| PVLAN                        | Support   |
| Voice VLAN                   | Support   |
| VLAN Mapping                 | Support 1:1 mapping   |
| QinQ                         | Support basic QinQ<br>Support flexible QinQ                                     |
| <b>Reliability</b>           |   |
| Spanning Tree Protocol       | Support STP/RSTP/MSTP   |
| Port Loop Detection          | Support   |
| EAPS                         | Support RFC3619   |
| ERPS                         | Support G.8032/Y.1344   |
| LLDP                         | Support LLDP & LLDP-MED   |
| UDLD                         | Fully compatible with Cisco's UDLD protocol                                     |
| <b>IP</b>                    |   |
| ARP                          | Support static and dynamic ARP  |
| IP Route                     | Support 0.0.0.0/0 route and other static route, but can't support L3 forwarding |
| VLAN Interface               | Support 32 VLAN interfaces  |
| <b>Multicast</b>             |   |
| Static Multicast MAC Address | Support   |
| IGMP Snooping                | Support   |
| MLD Snooping                 | Support   |
| MVR                          | Support   |
| GMRP                         | Support   |
| <b>ACL</b>                   |   |
| Standard IP-based ACL        | Support   |

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| Extended IP based ACL       | Support  |
| MAC IP-based ACL            | Support  |
| MAC ARP-based ACL           | Support  |
| IPv6-based ACL              | Support  |
| ACL Port Filtering          | Support  |
| Time-based ACL              | Support  |
| <b>QoS</b>                  |  |
| Port Queue Number           | 8  |
| Port Queue Scheduling Mode  | Support WRR, SP, WFQ   |
| Port-based Classification   | Support  |
| 802.1p-based Classification | Support  |
| DSCP-based Classification   | Support  |
| ACL-based Classification    | Support  |
| QoS Policy                  | Support packets mapping to queue<br>Support COS or DSCP Remarking<br>Support rate limits of data flow<br>Support data flow statistics<br>Support mirroring of data flow  |
| <b>DHCP</b>                 |  |
| DHCPv4 Client               | Support  |
| DHCPv6 Client               | Support  |
| DHCP Snooping               | Support  |
| DHCP Relay                  | Support  |
| DHCP Server                 | Support  |
| DHCP Option 82              | Support  |
| <b>Management</b>           |  |
| CLI Management              | Support Console, TELNET and SSH<br>Support multiple TELNET connections based on IPv4 and IPv6<br>Support multiple SSH connections based on IPv4 and IPv6<br>Support running configuration rollback<br>Support ZTP (Zero Touch Configuration) |
| WEB Management              | Support  |

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| SNMP Management            | Support SNMP v1, v2c, v3<br>Support SNMP TRAP<br>Support lots of standard and private MIBs<br>Support SNMP based on IPv4 and IPv6  |
| User Management            | Support multiple user management   |
| TACACS+                    | Support switch authentication via TACACS+ server remote username and password<br>Support password encryption in PAP and CHAP mode<br>Support TACACS+ server to authorize the switch's commands<br>Support TACACS+ based on IPv4 and IPv6 |
| Log Management             | Support local log management<br>Support SYSLOG based on IPv4 and IPv6  |
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| RMON                       | Support RMON 1, 2, 3 and 9 groups  |
| Cluster Management         | Support NDP<br>Support NTDP<br>Support manual and automatic joining of cluster groups<br>Support cluster unified management  |
| OAM                        | Support 802.3ah<br>Support 802.1ag   |
| Configuration File         | Support TFTP transmission based IPv4 and IPv6<br>Support SFTP transmission based IPv4 and IPv6<br>Support SFTP Client and SFTP Server  |
| Upgrade Software           | Support TFTP transmission based IPv4 and IPv6<br>Support SFTP transmission based IPv4 and IPv6<br>Support SFTP Client and SFTP Server  |
| Clock Management           | Support local clock management<br>Support SNTP based IPv4 and IPv6   |
| <b>Security</b>            |  |
| Switch Management Security | Support enabling and disabling TELNET, SSH, WEB and SNMP services<br>Support TELNET, SSH, WEB and SNMP services to bind to standard IP ACLU<br>Support for limiting the number of TELNET connections                                     |
| CPU Protection             | The switch's own security protection prevents large data streams from attacking the switch itself.   |

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| AAA                           | Support 802.1x<br>Support RADIUS<br>Supports authentication, authorization, and accounting through RADIUS server<br>Support port-based and MAC-based 802.1x<br>Support 802.1x guest VLAN   |
| IP MAC Binding                | Support static configuration of IP, MAC and port binding   |
| DHCP SNOOPING                 | Support dynamic ARP binding to prevent ARP spoofing<br>Support dynamic IP, MAC and port binding<br>Support fixed port to connect to DHCP server to prevent private connection to DHCP server   |
| Prevent ARP Spoofing          | Support manually configuring MAC CARP-based ACL rules to prevent ARP spoofing.<br>Support the DHCP SNOOPING function. During the process of obtaining an IP address by DHCP, the switch dynamically binds ARP to the port to prevent ARP spoofing. |
| <b>PoE</b>                    |  |
| Switch Control                | Support PoE powering of ports on and off   |
| Power Control                 | Support setting total power  |
| Other Advanced Features       | Support PoE scheduling policy and PD online query, etc.  |
| <b>IPv6</b>                   |  |
| IPv4/IPv6 Dual Protocol Stack | Support  |
| IPv6 Address                  | Support manual address configuration, stateless address auto-configuration and fateful address configuration obtained through DHCPv6 client  |
| IPv6 Neighbor Discovery       | Support  |
| ICMPv6                        | Support  |
| IPv6 Path MTU Discovery       | Support  |
| <b>Debugging</b>              |  |
| PING                          | Support  |
| PING6                         | Support  |
| TRACEROUTE                    | Support  |
| TELNET Client                 | Support TELNET client based IPv4 and IPv6  |
| SSH Client                    | Support SSH client based IPv4 and IPv6   |
| TWAMP                         | Support TWAMP server and session-reflector   |

**Order Information**

| P/N               | Description   |
|-------------------|---|
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Specifications & design are subject to change without prior notice.

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