

# CSL3LR-02S18GP-S

Full Gigabit 2SFP+18GE PoE Switch L2+Managed



## Overview

The CSL3LR-02S18GP-S is a Full Gigabit L2+ Managed PoE Switch with 16\*10/100/1000M RJ45 PoE Ports, 2\*10/100/1000M RJ45 Uplink, 2\*1000M SFP, delivering a 300W PoE budget with 1-2 ports up to PoE++90W, high switching capacity, and 41.67Mpps forwarding. Powered by a built-in AC supply and designed for -10°C~+55°C operation with IP30 protection, it is ideal for enterprise, campus, and surveillance networks requiring high-power PoE and advanced management.

## Features

- 16\*10/100/1000M RJ45, 2\*10/100/1000M RJ45, 2\*1000M Combo Console.
- Dual AC/DC input, ≤35W, redundant supported.
- VLAN, L3 routing, link aggregation, STP/RSTP/MSTP/ERPS.
- DHCP snooping, 802.1x, ACL, port/IP/MAC binding.
- Operating Temperature: -10°C to +50°C.
- Certification: CE, FCC, RoHS.
- Warranty: 1 year for the whole machine (excluding accessories).

## Specifications

Model No.	CSL3LR-02S18GP-S
Product Name	Full Gigabit 2SFP+18GE PoE Switch L2+Managed
Fixed Port	16*10/100/1000M RJ45 PoE Ports 2*10/100/1000M RJ45 Uplinks 2*1000M SFP
PoE Port	1-2 ports support IEEE802.3af/at/bt,max 90W/ports 3-16 ports support IEEE802.3af/at,max 30W/ports
Reset Key	1
PoE Pin	Af/at/bt: 12+ 45+ ; 36- 78- Af/at: 12+ 36-
PoE budget	Max 300W
CPU	500Mhz
DDR	1G DDR3
FLASH	128MBytes
RAM	128MBytes
Bandwidth	56G/128Gbps
Packet Forwarding	41.67Mpps
MAC	8K
Buffer	4.1Mbit SRAM Packet Buffer
Jumbo Frame	10000Kbyte
VLAN Mac	4K
Transmission Distance	10M:Cat3,4,5 UTP(≤250m) 100M:Cat5 or later UTP(150m) 1000M:Cat6 or later UTP(150m) SFP: Supports 1000M single-mode and multi-mode optical modules, with a maximum distance of ≤120km (depending on the optical module).
LED Indicator	POWER:Power LED 19-20:SFP connection indicator Uplink:(100M=Green Link,1000M=Orange Link) Downlink:(100M=Green Link,1000M=Orange Link)
Power	Built-in power AC:100-240Vac 50-60Hz 3.8A Max 315W
Operating Temperature/Humidity	-10~+55°C;5%~90%RH Non coagulation
Storage Temperature/Humidity	-40~+75°C;5%~95%RH Non coagulation
Product /Packing Size(L*W*H)	293mm*190mm*45mm 410mm*278mm*95mm

N.W/G.W(kg)	1.7kg/2.4kg
Lightning Protection Level	6KV 8/20us; IP30
Installation	Rack-mount (optional machine hanger spare parts)
Certificate	3C;CE-EMC EN55032;CE-LVD EN62368; FCC Part 15 Class B;RoHS;
Warranty	Whole device for 1 year(Accessories not included)
Features	L2+ Switch
Supported Switch Chips	RTL838X
<b>Port</b>	
Number of 100M Ports	Maximum 48 ports
Number of Copper Gigabit Ports	Maximum 48 ports
Number of Fiber Gigabit Ports	Maximum 24 ports
Port Shutdown	Support
Port Speed	Support autonegotiate, full-1000, full-100, half-100, full-10, half-10
Flow Control	Support full-duplex IEEE 802.3x, half-duplex back pressure
Storm Control	Supports rate limit for broadcast, multicast, and DLF packets
Storm Constrain	Support the detection of broadcast packets, multicast packets, or unicast 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 Support LACP dynamic link aggregation Supports up to 8 aggregation groups, each group up to 8 ports Support source MAC, destination MAC, source destination MAC, source IP, destination IP, source destination IP routing strategy
Port Isolate	Support
Jumbo Frame	Support up to 16KB packet
Cable Distance Diag	Support
Redundant Port	Support
The 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
MAC Address Binding	Support
MAC Address Filtering	Support
MAC Learning Control	Control the MAC learning based on port
<b>VLAN</b>	
Number of VLANs	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 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

**ACL**

Standard IP-Based ACL Support

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

**QoS**

Port Queue Number 8

Port Queue Scheduling Mode Support WRR,RR,WDRR,SP

Port-Based Classification Support

802.1p-Based Classification Support

DSCP-Based Classification Support

ACL-Based Classification Support

QoS Policy

- Support packets mapping to queue
- Support COS or DSCP Remarking
- Support rate limits of data flow
- Support data flow statistics
- Support mirroring of data flow

**DHCP**

DHCPv4 Client Support

DHCPv6 Client Support

DHCP Snooping Support

DHCP Relay Support

DHCP Server Support

DHCP Option 82 Support

**Management**

CLI Management

- Support TELNET and SSH
- Support multiple TELNET connections based on IPv4 and IPv6
- Support multiple SSH connections based on IPv4 and IPv6
- Support running configuration rollback
- Support ZTP (Zero Touch Configuration)

WEB Management Support


SNMP Management	<ul style="list-style-type: none"> <li>Support SNMP v1, v2c,v3</li> <li>Support SNMP TRAP</li> <li>Support lots of standard and private MIBs</li> <li>Support SNMP based on IPv4 and IPv6</li> </ul>
User Management	<ul style="list-style-type: none"> <li>Support multiple user management</li> </ul>
TACACS+	<ul style="list-style-type: none"> <li>Support switch authentication via TACACS+ server remote username and password</li> <li>Support password encryption in PAP and CHAP mode</li> <li>Support TACACS+ server to authorize the switch's commands</li> <li>Support TACACS+ based on IPv4 and IPv6</li> </ul>
Log Management	<ul style="list-style-type: none"> <li>Support local log management</li> <li>Support SYSLOG based on IPv4 and IPv6</li> </ul>
RMON	<ul style="list-style-type: none"> <li>Support RMON 1, 2, 3 and 9 groups</li> </ul>
Cluster Management	<ul style="list-style-type: none"> <li>Support NDP</li> <li>Support NTDP</li> <li>Support manual and automatic joining of cluster groups</li> <li>Support cluster unified management</li> </ul>
OAM	<ul style="list-style-type: none"> <li>Support 802.3ah</li> <li>Support 802.1ag</li> </ul>
Configuration File	<ul style="list-style-type: none"> <li>Support TFTP transmission based IPv4 and IPv6</li> <li>Support SFTP transmission based IPv4 and IPv6</li> <li>Support SFTP Client and SFTP Server</li> </ul>
Upgrade Software	<ul style="list-style-type: none"> <li>Support TFTP transmission based IPv4 and IPv6</li> <li>Support SFTP transmission based IPv4 and IPv6</li> <li>Support SFTP Client and SFTP Server</li> </ul>
Clock Management	<ul style="list-style-type: none"> <li>Support local clock management</li> <li>Support SNTP based IPv4 and IPv6</li> </ul>
<b>Security</b>	
Switch Management Security	<ul style="list-style-type: none"> <li>Support enabling and disabling TELNET, WEB and SNMP services</li> <li>Support TELNET, WEB and SNMP services to bind to standard IP ACLs</li> <li>Support for limiting the number of TELNET connections</li> </ul>
CPU Protection	<ul style="list-style-type: none"> <li>The switch's own security protection prevents large data streams from attacking the switch itself.</li> </ul>
AAA	<ul style="list-style-type: none"> <li>Support 802.1x</li> <li>Support RADIUS</li> <li>Supports authentication, authorization, and accounting through RADIUS server</li> <li>Support port-based and MAC-based 802.1x</li> <li>Support 802.1x guest VLAN</li> </ul>
IP MAC Binding	<ul style="list-style-type: none"> <li>Support static configuration of IP, MAC and port binding</li> </ul>
DHCP SNOOPING	<ul style="list-style-type: none"> <li>Support dynamic ARP binding to prevent ARP spoofing</li> <li>Support dynamic IP, MAC and port binding</li> <li>Support fixed port to connect to DHCP server to prevent private connection to DHCP server</li> </ul>

Prevent ARP Spoofing	Support manually configuring MAC ARP-based ACL rules to prevent ARP spoofing. 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>	
Supported PoE Chips	MAX5980,LTC4259,LTC4271,TPS23851,TPS23861,TPS23880,TPS23881,IP808,PD 69100/69108,PD69200/69208, etc.
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 stateful 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

## Ordering Information

PART NO	DESCRIPTION
CSL3LR-02S18GP-S	Full Gigabit 2SFP+18GE PoE Switch L2+Managed



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Specifications & design are subject to change without prior notice.

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