

# CSL3R-08X00-S

Commercial Rackmount Layer 3 Managed Switch 8x10G SFP+



## Overview

The CSL3R-08X00-S is a compact Full 10 Gigabit Fiber L3 Managed Switch, designed for high-speed, scalable network access and uplink scenarios. It features 8\*1G/2.5G/10G SFP+ ports (supporting multi-rate optical modules) and 1 console port, powered by a MIPS-34Kc 800MHz CPU, 1G DDR3, and 128MB Flash/RAM. With 160Gbps bandwidth and 89.28Mpps packet forwarding rate, it ensures smooth 10Gbps data transmission, while supporting L3 routing, advanced VLAN, and security functions for enterprise, data center, or campus networks.

Rated for -10~+55°C operating temperature, IP30 protection, and 6KV lightning protection, it suits semi-harsh environments. Its desktop installation design and compact size (223x112x31mm) enhance deployment flexibility, making it ideal for spaces where rack-mount setups are not feasible.

## Features

- Ports & Hardware: 8\*1G/2.5G/10G SFP+ ports, 1 console port, 1 RET hole; MIPS-34Kc 800MHz CPU, 1G DDR3, 128MB Flash/RAM.
- Performance: 160Gbps bandwidth, 89.28Mpps forwarding rate; 16K MAC table, 12Mbit SRAM buffer, 12Kbyte jumbo frames (up to 16KB via features); 4K VLANs.
- Transmission: SFP+ supports 1G/2.5G/10G single-mode/multi-mode optical modules, max distance ≤120km (depends on module).

- Power & Environment: DC 12V 2A (max 24W); operating temp -10~+55°C, storage -40~+75°C; 5%~90% RH (operating, non-condensing); 6KV 8/20us lightning protection, IP30.
- L3 & L2 Functions: Static routes, RIP v1/v2, OSPFv2, VRRP; 4K VLANs (802.1q/MAC/IP/protocol-based, QinQ); STP/RSTP/MSTP, EAPS, ERPS (G.8032).
- QoS & Security: 8 port queues (WRR/RR/WDRR/SP); IP/MAC/port binding, DHCP Snooping, 802.1x/RADIUS; ACLs (IP/MAC/ARP-based, time-based); CPU attack protection.
- Port Management: Auto-negotiation, IEEE 802.3x flow control, storm control; port mirroring, ingress/egress rate limiting; 32 link aggregation groups (8 ports/group).
- Management: CLI (Console/Telnet/SSH), WEB (HTTP/HTTPS), SNMP v1/v2c; RMON 1/2/3/9, cluster management (NDP/NTDP); config upload/upgrade.
- Mechanical & Warranty: Product size 22311231mm, package size 27022065mm; 0.92kg (N.W.)/1.21kg (G.W.); desktop installation; 1-year warranty (excl. accessories).
- Certifications: CE-EMC EN55032, CE-LVD EN62368, FCC Part 15 Class B, RoHS.

## Specifications

Model No.	CSL3R-08X00-S
Product Name	Full 10 Gigabit Fiber L3 Managed Switch
Fixed Port	8*1G/2.5G/10G SFP+
Management Port	1*console port
RET Hole	1
CPU	MIPS-34Kc 800Mhz
DDR	1G DDR3
FLASH	128MBytes
RAM	128MBytes
Bandwidth	160Gbps
Packet Forwarding	89.28Mpps
MAC	16K
Buffer	12Mbit SRAM Packet Buffer
Jumbo Frame	12Kbyte
Transmission Distance	SFP:Supports 1G/2.5G/10G single-mode multimode optical modules with a maximum distance of ≤120km (depending on the optical module).
LED Indicator	PWR: Power LED/System LED 1-8 Ports: Link/Act LED (green) 10G Status LED (red)
Power Supply	DC 12V 2A MAX 24W
Usage Environment	Operating temperature: -10~55°C Storage temperature: -40~75°C

	Operating humidity: 5%~90%RH Non coagulation Storage humidity: 5%~95%RH Non coagulation
Product /Packing Size(L*W*H)	Product Size:223mm*112mm*31mm Packing Size:270mm*220mm*65mm
N.W/G.W(kg)	0.92kg/1.21kg
Lightning Protection Level	6KV 8/20us; IP30
Installation	Desktop
Certificate	CE-EMC EN55032;CE-LVD EN62368; FCC Part 15 Class B;RoHS;
Warranty	1 year warranty on the whole machine (excluding accessories)

**Port**

Number of Fiber 10G or 1G 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 32 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
Redundant Port	Support
<b>MAC</b>	
MAC Table Capacity	16K
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
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
ERPS	Support G.8032/Y.1344
LLDP	Support LLDP & LLDP-MED
UDLD	Fully compatible with CISCO's UDLD protocol
VLLP (VRRP Layer-2 Loop Protection)	Support, Only used with VRRP
<b>L3</b>	
ARP	Support static and dynamic ARP
Static Route	Support
VLAN Interface	Support 32 VLAN interfaces
RIP	Support RIP v1/v2
OSPF	Support OSPFv2
Policy Route	Support
VRRP	Support
<b>Multicast</b>	
Static Multicast MAC Address	Support
IGMP SNOOPING	Support IGMP SNOOPING v1/v2/v3

	Support IGMP Querier
	Support IGMP SNOOPING Filter
MVR	Support
GMRP	Support
<b>ACL</b>	
Standard IP-Based ACL	Support
Extended IP Based ACL	Support
MAC IP-Based ACL	Support
MAC ARP-Based ACL	Support
ACL Port Filtering	Support
Time-Based ACL	Support
<b>QoS</b>	
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
<b>DHCP</b>	
DHCP 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
WEB Management	Support HTTP and HTTPS
SNMP Management	Support SNMP v1, v2c Support SNMP TRAP

	Support lots of standard and private MIBs
User Management	Support multiple user management
Log Management	Support local log management Support SYSLOG
RMON	Support RMON 1, 2, 3 and 9 groups
Cluster Management	Support NDP Support NTDP Support manual and automatic joining of cluster groups Support cluster unified management
Configuration File	Support uploading and downloading configuration file
Upgrade Software	Support
Clock Management	Support local clock management Support SNTP
<b>Security</b>	
Switch Management Security	Support enabling and disabling TELNET, WEB and SNMP services Support TELNET, WEB and SNMP services to bind to standard IP ACLs 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.
AAA	Support 802.1x Support RADIUS Supports authentication, authorization, and accounting through RADIUS server Support port-based and MAC-based 802.1x 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 Support dynamic IP, MAC and port binding Support fixed port to connect to DHCP server to prevent private connection to DHCP server
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>Debugging</b>	
PING	Support
TRACEROUTE	Support
TELNET Client	Support

## Ordering Information

PART NO	DESCRIPTION
CSL3R-08X00-S	Full 10 Gigabit Fiber L3 Managed Switch



<https://www.lanaotek.com>



Specifications & design are subject to change without prior notice.

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