

# **IDSL3LR-04S08G-S**

Industrial Din-rail Switch Layer 3 Lite Managed 8\*10/100/1000M RJ45, 4\*1000M SFP



## **Overview**

IDSL3LR-04S08G-S is an Industrial Din-rail Layer 3 Lite Managed Switch, designed for high-performance and reliable networking in harsh industrial environments. With 8×10/100/1000M RJ45 ports and 4×1000M SFP slots, it provides flexible copper and fiber connectivity for various application scenarios. Supporting Layer 3 Lite features such as static routing, VLAN segmentation, and QoS, the switch ensures efficient traffic management and optimized network performance. Its rugged, fan-less design and wide operating temperature range make it ideal for deployment in power utilities, transportation, smart manufacturing, and other mission-critical applications.

## **Features**

- 12 Gigabit Ports – 8×10/100/1000M RJ45 + 4×1000M SFP for flexible copper/fiber connections
- Layer 3 Lite – Supports static routing, VLAN, QoS for efficient traffic management
- Industrial-grade Design – Wide temperature range, fan-less, rugged DIN-rail enclosure
- High Reliability – Redundant power input and <50ms ring protection for network resilience
- Comprehensive Security – 802.1X, ACL, port security, storm control

- Flexible Management – Web GUI, CLI, SNMP, remote monitoring and firmware upgrade

## Specifications

Model	IDSL3LR-04S08G-S
Fixed Port	8*10/100/1000M RJ45, 4*1000M SFP
Console Port	1
Reset Key	1
Power Input	Dual DC12-57V
	IEEE 802.3x
	IEEE 802.3, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3z
	IEEE 802.3ad
	IEEE 802.3q, IEEE 802.3q/p
Network Protocol	IEEE 802.1w, IEEE 802.1d, IEEE 802.1S
	IEEE 802.3z 1000BASE-X
	STP (Spanning Tree Protocol)
	RSTP/MSTP (Rapid Spanning Tree Protocol)
	EPPS ring network protocol
	EAPS ring network protocol
Port Specification	1-8 port 10/100/1000BaseT auto detection, AUTO-MDI/MDI-X
Transmission Mode	Store and Forward (full wire speed)
Bandwidth	56Gbps (no blocking)
Packet Forwarding	40.32Mpps
Mac	8K
Buffer	4.1M
Transmission Distance	10BASE-T: Cat3,4,5 UTP ( $\leq$ 250 meter) 100BASE-TX: Cat5 or later UTP ( $\leq$ 100 meter) 1000BASE-TX: Cat6 or later UTP ( $\leq$ 1000 meter) SFP: Support 1G single-mode multi-mode optical module, max. distance $\leq$ 120km
FLASH	16M
RAM	128M
Power Consumption	Standby $\leq$ 15W; Full-load $\leq$ 25W
LED Indicator	9-12: SFP LED Port 1-8: Green=100M; Green+Orange=1000M PWR: Power/system LED P1: Master power LED P2: Slave power LED HW: Ring network ON LED

Operating Temperature	-40~+75°C
Storage Temperature	-40~+85°C
Operating Humidity	10%~90% RH No condensation
Storage Humidity	5%~95% RH No condensation
Lightning Protection Level	6KV 8/20us; 8KV ESD; IP40
Product Size (L*W*H)	188*130*50mm
N.W.	1.25kg
Installation	DIN-rail type
Certificate	CE/FCC/RoHS
Warranty	2 years
<b>Software Functions</b>	
<b>Port</b>	
Port Shutdown	Support
Port Speed	Support auto negotiates, 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
	Support manual link aggregation
	Support LACP dynamic link aggregation
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 Isolation	Support
Jumbo Frame	Support up to 16KB
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
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 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
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 CARP-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, SP, WFQ
Port-based Classification	Support
802.1p-based Classification	Support
DISC-based Classification	Support
AC-based Classification	Support
	Support packets mapping to queue
	Support COS or DSCP Remarking
QoS Policy	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 Console, 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	Support SNMP v1, v2c, v3 Support SNMP TRAP Support lots of standard and private MIBs Support SNMP based on IPv4 and IPv6
User Management	Support multiple user management support switch authentication via TACACS+ server remote username and password
TACACS+	Support password encryption in PAP and CHAP mode Support TACACS+ server to authorize the switch's commands Support TACACS+ based on IPv4 and IPv6
Log Management	Support local log management Support SYSLOG based on IPv4 and IPv6
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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
OAM	Support 802.3ah Support 802.1ag
Configuration File	Support TFTP transmission based IPv4 and IPv6 Support SFTP transmission based IPv4 and IPv6 Support SFTP Client and SFTP Server
Upgrade Software	Support TFTP transmission based IPv4 and IPv6 Support SFTP transmission based IPv4 and IPv6 Support SFTP Client and SFTP Server
Clock Management	Support local clock management Support SNTP based IPv4 and IPv6
<b>Security</b>	
Switch Management Security	Support enabling and disabling TELNET, SSH, WEB and SNMP services Support TELNET, SSH, WEB and SNMP services to bind to standard IP ACLU 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 CARP-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.
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**IPv6**

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

**Debugging**

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
IDSL3LR-04S08G-S	Industrial Din-rail Switch Layer 3 Lite Managed (Realtek) 8*10/100/1000M RJ45, 4*1000M SFP



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Specifications & design are subject to change without prior notice.

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