

# **IDSL3LR-02S08GP-Z7**

Din-Rail Industrial L3 Lite Managed PoE Switch

8x10/100/1000M RJ45 PoE+, 2x1000M SFP



## **Overview**

IDSL3LR-02S08GP-Z7 is a DIN-rail mounted industrial switch combines Layer 3 Lite routing with PoE+ support (IEEE 802.3at, 30w) for harsh environments. It is equipped with 8x10/100/1000M ports and 2xGigabit SFP interfaces. Leveraging fanless heat dissipation circuit design, wide operating temperature range -40 ° C to +75 ° C, and IP40 high protection level , it delivers outstanding industrial grade performance, high and low temperature tolerance and lightning protection capabilities. It integrates diverse protocols essential for switching and security functions and supports the public domain Ethernet Ring Protection Switching (ERPS) technology, greatly enhancing network - building flexibility while strengthening the reliability and security of industrial networks. This makes it well suited to meet the deployment demands in applications like rail transit, smart cities, intelligent transportation, outdoor surveillance, and other harsh environments.

## **Features**

- Input voltage: DC48-58V
- Operating Temperature: -40°C ~ +75°C
- Shell: IP40 protection, fanless design
- Test Report: RoHS, FCC, CE
- Anti-static: 8KV-15KV
- MTBF: 100,000 Hours

## Specifications

Fixed Port	8x10/100/1000M RJ45, 4x1000M SFP
Management Port	1xRJ45 console port
Power Interface	Phoenix terminal, dual power supply redundancy
LED Indicators	PWR, Link/ACT LED
<b>Cable Type &amp; Transmission Distance</b>	
Twisted-pair	0-100m (CAT5e, CAT6)
Monomode Optical Fiber	20/40/60/80/100KM
Multimode Optical Fibre	550m
<b>Network Topology</b>	
Ring Topology	Support
Star Topology	Support
Bus Topology	Support
Tree Topology	Support
Hybrid Topology	Support
<b>Electrical Specifications</b>	
Input Voltage	DC48-58V
Total Power Consumption	PoE<250w (PoE Budget 240w)
<b>PoE Support</b>	
PoE Port	1-8
PoE Protocol	IEEE802.3af PoE 15.4w IEEE802.3at PoE+ 30w
Pin Assignment	1, 2+, 3, 6-
PoE Management	Support
<b>Layer 2 Switching</b>	
Switching Capacity	20G
Packet Forwarding Rate	14.88Mpps
MAC Address Table	8K
Buffer	4.1M
Forwarding Delay	<10us

MDI/MDIX	Support
VLAN	256
GVRP	Support
Protocol VLAN	Support
Voice VLAN	Support
Surveillance VLAN	Support
MAC VLAN	Support
QINQ	Support
Ether Channel/ 802 .3ad	Support
LACP	Support
Interface Speed	Support
Duplex Mode	Support
Flow Control	Support
Jumbo Frame	Support
DHCP Client	Support
SNTP Client	Support
Port Statistics	Support
Protected Ports	Support
EEE	Support
ERPS	Support
LLDP	Support
LLDP 802.1 TLV	Support
MSTP / RSTP / STP	Support
STP BPDU Filter	Support
STP BPDU Guard	Support
STP Port Fast	Support
IGMP Snooping	Support
MLD Snooping	Support
MVR	Support
DHCP	Support
Device Scanning	Support

**Layer 3 Function**

IPV4	Support
IPV6	Support
Static Routes IPv4	Support
Static Routes IPv6	Support
ARP	Support
Loopback Interface	Support
DHCP Server	Support
DNS Server	Support

**Convergence**

ACL	Supports MAC standard/extended ACL
	Supports IPv4 standard/extended ACL
	Supports IPv6 standard/extended ACL
QOS	Supports QoS remarking
	Supports port trust
	Supports port rate limiting
	Supports egress queue rate limiting
	Supports SP and WRR scheduling algorithms
Supports CoS mapping, DSCP mapping, and IP priority mapping	

**Management**

User Management	Support
System Log	Support
Upgrade Firmware	Support
Configuration	Support
File Download/Upload	Support
SNMP	Support SNMP V1/V2/V3
WEB	Support
CLI	Support
Telnet/SSH	Support
RMON	Support

**Security**

Management	Support
Channel Configuration	Support
AAA Authentication	Support

802.1X Authentication	Support
MAC-based Authentication	Support
Web-Based authentication	Support
DoS Attack Prevention	Support
Dynamic ARP Inspection	Support
DHCP Snooping	Support
IP Source Guard	Support
Port Security	Support
Protected Ports	Support
Storm Control	Support
<b>Equipment Diagnosis</b>	
RAM Log	Support
Flash Log	Support
Port Mirroring	Support 1:1 or M:1
Ping	Support
Trace Route	Support
Port Testing	Support
Optical Module DDM	Support
UDLD Protocol	Support
<b>Mechanical Dimensions</b>	
Product Size	48x104x143mm
Installation Method	Rail-mounted installation
Net Weight	0.55kg
<b>Environment</b>	
Operating Temperature	-40°C~+75°C
Storage Temperature	-40°C~+85°C
Relative Humidity	5%~95% non-condensing)
Thermal Methods	Fanless design, natural cooling
MTBF	100, 000 hours
<b>EMC &amp; Ingress Protection</b>	
IP Level	IP40

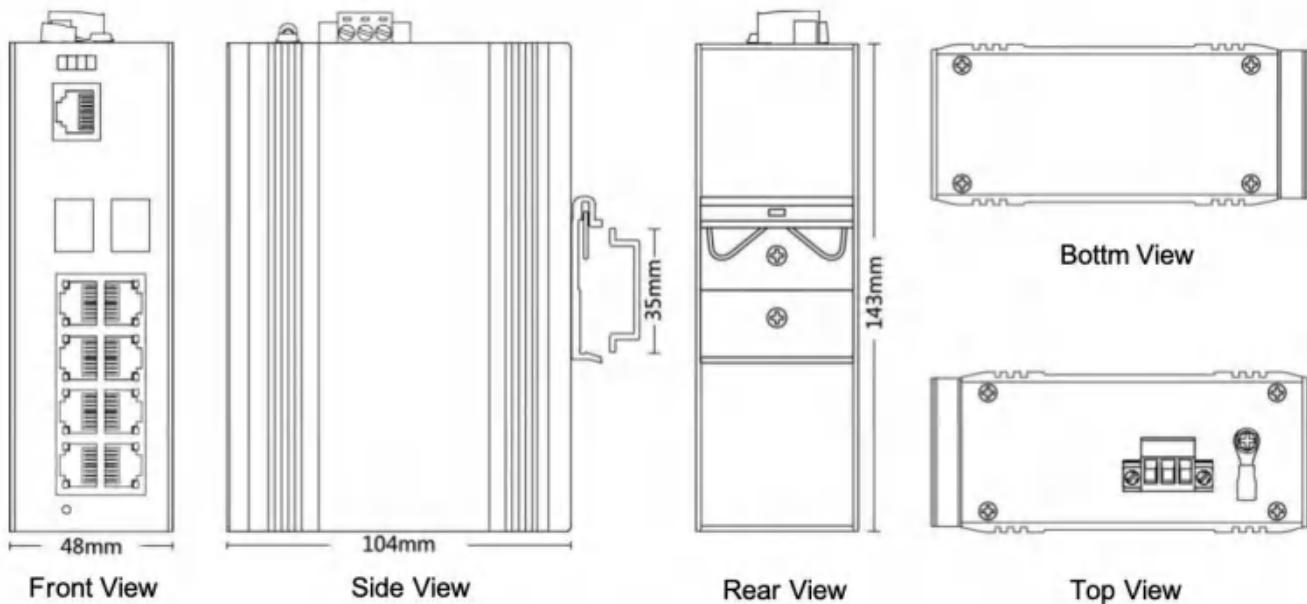
Surge Protection of Power	Common mode 4KV, differential mode 2KV
Surge Protection of Ethernet port	Common mode 4KV, differential mode 2KV
ESD	Contact 8K, air 15K
Free Fall	0.5m

**Certification**

Certificates	CE/FCC/RoHS
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**Warranty**

Warranty	3-Year
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**Dimension****Ordering Information**

PART NO	DESCRIPTION
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Specifications & design are subject to change without prior notice.

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