

IDS3LM-02S08GHP-Z7

Industrial Din-rail Switch (Marvell) Layer 3 Lite Managed

8x10/100/1000M RJ45 PoE (Port 1-2 support BT90w), 2x1000M SFP



Overview

IDS3LM-02S08GHP-Z7 is an industrial-grade managed Ethernet switch, which features 2 Gigabit SFP ports and 8 10/100/1000Base-T ports, designed to meet the demands of harsh environments. With a fan-less thermal design, wide operating temperature range, and high protection level, it offers exceptional resistance to extreme heat, cold, and lightning interference. The switch supports a comprehensive set of Layer 2 switching and security protocols, including advanced Ethernet Ring Protection Switching (ERPS), significantly enhancing network flexibility, reliability, and safety. Ideal for deployment in rail transit, safe city initiatives, intelligent transportation systems, outdoor surveillance, and other challenging industrial applications.

Features

- Input voltage: DC12-58V(non-PoE); DC48-58V(PoE)
- Operating Temperature: -40°C ~ +85°C
- Shell: IP40 protection, fan-less design
- Anti-static: 8KV-15KV
- MTBF: 100000 Hours

Specifications

Model	IDS13LM-02S08GHP-Z7
Fixed Port	2*1000Base-X, 8*10/100/1000Base-T
Management Port	Support console
Power Interface	Phoenix terminal, dual power supply redundancy
LED Indicators	PWR, Link/ACT LED

Cable Type & Transmission Distance

Twisted-pair	0-100m (CAT5e, CAT6)
Mono-mode Optical Fiber	20/40/60/80/100KM
Multimode Optical Fiber	550m

Network Topology

Ring Topology	Support
Star Topology	Support
Bus Topology	Support
Tree Topology	Support
Hybrid Topology	Support

Electrical Specifications

Input Voltage	DC12-58V(non-PoE); DC48-58V(PoE)
Total Power Consumption	<10W(non-PoE); <250W(PoE)

PoE ++

PoE Port	1-8
PoE Protocol	802.3af, 802.3at, 802.3bt (1-2 Support)
Pin Assignment	1, 2, 4, 5+; 3, 6, 7, 8-
PoE Management	Support

Layer 2 Switching

Switching Capacity	36G
Packet Forwarding Rate	26.78Mpps
MAC Address Table	16K
VLAN	Support 4K
Buffer	12M
Forwarding Delay	<10us

MDX/MIDX	Support
Flow Control	Support
Jumbo Frame	10Kbytes
Spanning Tree	Support STP/RSTP/MSTP
Ring Protocol	Support ERPS
Link Aggregation	Support 64 groups
Multicast	Support IGMP Snooping
Port Mirroring	Support SPAN & RSPAN
Port Loopback Detection	Support
Storm Control	Support
Interface Counters	Support
QINQ	Support
802.1X	Support
MAC Authentication	Support
Port Isolation	Support
RMON	Support
NTP Client	Support
DHCP Client	Support
DHCP Snooping	Support
Ping/Tracert	Support
Dying Gasp	Support
DDM	Support
Port Security	Support
IP Source Guard	Support
Device Scan	Support

Layer 3 Function

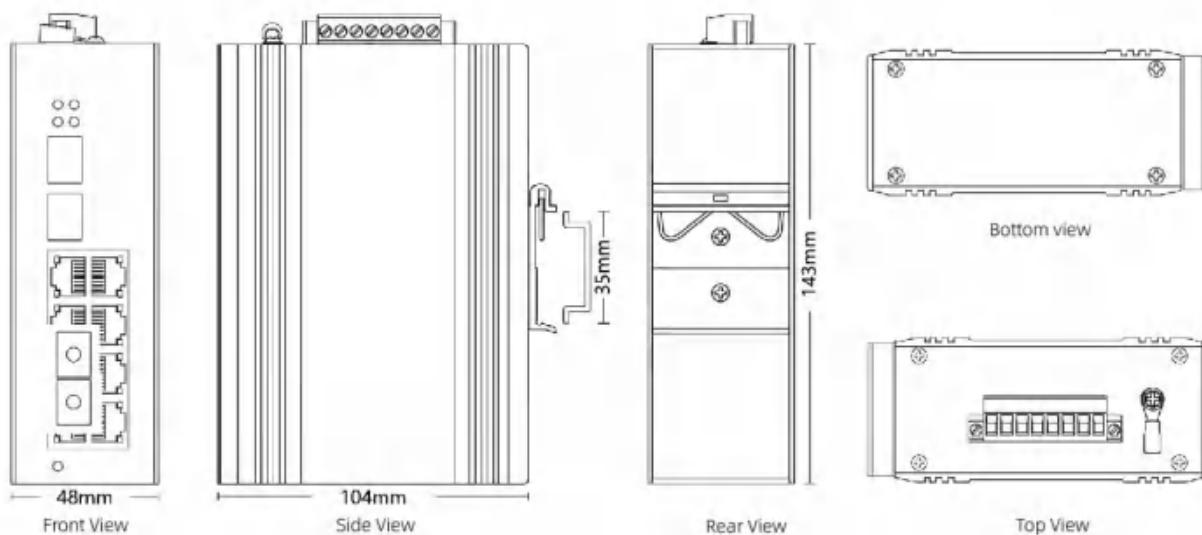
IPv4/IPv6 Static Routing	Support 256 static routes
ARP	ARP table entry aging
DHCP Server	Support

Convergence

ACL	Support 240 ACLs;
	Support IP standard ACL/ACLv6;
	Support MAC extended ACL/ACLv6;
	Support IP extended ACL/ACLv6;
	Support L4 layer ACL
QoS	Support QoS re-marking and priority mapping;
	Support SP and WRR queue scheduling;
	Support ingress and egress speed limits;
	Support flow-based QoS
DDOS Attack	Support
Management	
CLI	Support
Console	Support
Telnet/SSH	Support
WEB Management	Support
Management IP	Support IPv4/IPv6
SNMP	Support SNMPv1/v2c/v3
User Management	Support
User Rights Management	Support
System Log	Support
Configuration File Download/Upload	Support
Upgrade Firmware	Support
Mechanical Dimensions	
Product Size	48x104x143mm (W x H x D)
Installation Method	DIN-rail
Weight	0.58KG
Environment	
Operating Temperature	-40°C~+85°C
Storage Temperature	-40°C~+85°C
Relative Humidity	5%~95% (non-condensing)
Thermal Methods	Fan-less, natural cooling
MTBF	100,000 hours
EMC & Ingress Protection	
IP Level	IP40

Surge Protection of Power	IEC 61000-4-5 Level X (6KV/6KV) (1.2/50us)
Surge Protection of Ethernet Port	IEC 61000-4-5 Level 4 (4KV/4KV) (10/700us)
RS	IEC 61000-4-3 Level 3 (10V/m)
EFI	IEC 61000-4-4 Level 3 (1V/2V)
CS	IEC 61000-4-6 Level 3 (10V/m)
PFMF	IEC 61000-4-8 Level 4 (30A/m)
DIP	IEC 61000-4-11 Level 3 (10V)
ESD	IEC 61000-4-2 Level 4 (8K/15K)
Free Fall	0.5m
Certification	
Certificates	CE/FCC/RoHS
Warranty	3 Years

Dimensions



Ordering Information

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

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