

IDSL3LR-02S08GHP-S

Industrial Din-Rail Managed PoE Switch 8x10/100/1000M RJ45, 2x1000M SFP

Port 1 support BT PoE (single port power Max. 90w)



Overview

The Industrial L3 Lite Managed PoE Switch is a versatile networking solution designed for industrial applications. With a unique port configuration, it offers a blend of high - performance connectivity and power delivery capabilities. Port 1 stands out by supporting BT RoE (BroadR-Reach over Ethernet), enabling it to provide a maximum power output of 90W on a single port, which is ideal for power - hungry devices that require both data and substantial power over a single Ethernet connection. Ports 2 - 8 support the widely - used AT PoE standard, ensuring reliable power and data transmission to various PoE - enabled devices. Additionally, the switch is equipped with 2 x 1000M SFP ports, offering flexible fiber - optic connectivity options for long - distance data transmission and high - speed backbone connections. This combination of features makes the switch suitable for complex industrial networking scenarios, such as factory automation, smart grid systems, and industrial IoT deployments, where robust performance, efficient power management, and flexible connectivity are essential.

Features

- Hybrid PoE Support: Combines BT RoE (BroadR-Reach over Ethernet) on Port 1 (90W max power per port) with IEEE 802.3at PoE+ on Ports 2-8 (30W max per port), enabling flexible power delivery for diverse industrial devices.
- Dual SFP Connectivity: 2 x 1000M SFP ports for fiber-optic uplinks, supporting long-distance and high-speed network backbones.
- Layer 3 Lite Management: Advanced routing capabilities (VLAN, QoS, static routing) for optimized network segmentation and traffic prioritization.
- Industrial-Grade Reliability: Designed for harsh environments with wide-temperature operation (-40°C to 75°C), shock/vibration resistance, and redundant power inputs.
- Real-Time Monitoring: Supports SNMP, CLI, and web-based management for remote configuration and performance tracking.
- Security Features: Access control lists (ACLs), port mirroring, and DHCP snooping to protect industrial networks.
- Power Management: Intelligent PoE allocation with auto-detection of powered devices and over-current protection.
- Redundancy Protocols: Rapid Spanning Tree Protocol (RSTP) and link aggregation for network resilience and failover.

Specifications

Model No.	IDSL3LR-02S08GHP-S
Downlink Port	Port 1 support BT PoE (single port power MAX 90W) Port 2-8 support AT PoE
Uplink Port	2*1000M SFP
Console Port	1
Reset Key	1
Power Input	2 group of independent power input SW: DC12-57V PoE: DC37-57V
Network Protocol	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 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 (X) auto detection,AUTO-MDI/MDI-X
Transmission Mode	Store and Forward(full wirespeed)
Bandwidth	56Gbps
Packet Forwarding	14.44Mpps
MAC	8K
Buffer	4.1M
Transmission Distance	10BASE-T:Cat3,4,5 UTP(≤250 meter) 100BASE-TX:Cat5 or later UTP(≤100 meter) 1000BASE-TX: Cat6 or later UTP(≤1000 meter) 1000BASE-SX:62.5μm/50μm MMF(2m~550m) 1000BASE-LX:62.5μm/50μm MM(2m~550m) or 10μm SMF(2m~5000m) BIDI supported
FLASH	16M
RAM	128M
LED Indicator	9-10:(SFP LED) PoE Port 1-8 (Green=48V) ;Link (Green=Link LED) PWR:(Power/system LED) V1:(Master power LED) V2:(Slave power LED) HW:(Ring network ON LED)
Power Consumption	Standby power consumption≤5W; Network Full-load power consumption≤15W; Full load power consumption≤360W
Operating Temperature/Humidity	-40~+80°C;10%~90% RH No coagulation
Storage Temperature/Humidity	-40~+85°C;5%~95% RH No coagulation
Lightning Protection Level	6KV 8/20us;8KV ESD IP40
Product Size(L*W*H)	160*130*45mm
N.W(kg)	1kg
Installation	DIN guide rail type(additional wall hangers)
Certificate	CE mark, commercial;CE/LVD EN60950 FCC Part 15 Class B;RoHS
Warranty	Whole device for 1 year (Accessories not included)

Software Function

The followings are main functions not included in all the functions. Please contact with us for more other information! We support software development for customization requirement


Monitoring Platform	Quick formation of ring network System temperature monitoring and alarm External temperature and humidity monitoring and alarm Input power monitoring and alarm System each channel key voltage monitoring and alarm System total current,total power monitoring and alarm All-Port network monitoring and alarm Support one group input and output signal monitoring and alarm
Network Protocol	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 IEEE 802.1w,IEEE 802.1d,IEEE 802.1S,IEEE 802.1X
MAC	Support 16K MAC address,auto aging and learning
VLAN Configuration	Support port-based VLAN Up to 4096 VLANs Support Voice VLAN,can configure Qos for voice data 802.1Q
Spanning Tree	STP(Spanning tree protocol) RSTP/MSTP(Rapid spanning tree protocol) EPPS/EAPS(Ring network protocol) 802.1x
Port Aggregation	Support 8 groups of aggregation,each group support up to 8 ports;
Port Mirroring	Support many-to-one port mirroring
Loop Guard	Support loop protection, real-time detection, quick alarm, concise location, Intelligent blocking, automatic recovery
Port Isolation	Support downlink ports isolate from each other and communicate with uplink port as well
Flow Control	Half duplex based on Back pressure; Full duplex based on PAUSE frame
Speed Limitation	Bandwidth management based on port input and output
Multicast Control	IGMPv1/2/3 and MLDv1/2 Snooping GMRP protocol registration Multicast address management, multicast VLAN, multicast routing port, static multicast address
DHCP	DHCP Snooping
Storm Suppression	Support unknown unicast,multicast,unknown multicas,broadcast type storm suppression Storm suppression based on bandwidth adjustment and storm filtering

Security	Support User port+IP address+MAC address ACL based on IP, MAC Support security properties of number of MAC address based on port
QOS	802.1p port queue priority algorithm Cos/Tos,QOS remark WRR(Weighted Round Robin), weighted priority rotation algorithm WRR,SP,WFQ priority scheduling modes
Cable Sequence	Auto-MDIX; auto detection on straight-through and cross-over cable
Negotiation Mode	Port support auto negotiation function(self-negotiation transmission rate and duplex mode)
System Maintenance	Upgrade package upload System log viewing WEB recovery factory configuration
PoE Function (Only for PoE Models)	Port switch Schedule arrangement, timing switch Voltage, current, power display System total power display and configuration PoEdog:support auto reset, timing reset and ip binding reset when device failed Port power configuration(AF.AT HiPoE.BT) Indication of over power Port PoE type configuration(48V/24V power supplying)
Network Management	WEB interface management CLI management based on Telnet、TFTIP、Console SNMP V1/V2/V3 management RMONV1/V2 management RMON management

Ordering Information

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

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