



## IES618 Series

DIN-Rail or Wall Mounting

8-port 100M Layer 2 Managed Industrial Ethernet Switch

- Support 4 100M copper ports and 4 optional fiber/copper ports
- Adopt SW-Ring patent technology, support single ring, coupling ring, chain, Dual-homing, automatic recovery time of network failure < 20ms
- Input power supply 12~48VDC, redundant power supply, anti-reverse connection and non-polarity
- Support -40~75°C wide operating temperature range



Industrial Grade



RPS

## Introduction

IES618 series are layer 2 managed industrial Ethernet switches. This series provide 3 types of products and support different combination schemes of copper port and fiber port, which can meet the requirements of different application scenes.

Network management system supports various network protocols and industrial standards, such as STP/RSTP, 802.1Q VLAN, QoS, IGMP Static Multicast, Port Trunking, Port Mirroring, LLDP etc. It also possesses complete management functions, including Port Configuration, Port Statistics, Access Control, Network Diagnosis, Rapid Configuration, Online Upgrading and so on, and supports CLI, WEB, Telnet, SNMP and other access methods. It can provide users with good experience with friendly design of network management system interface, simple and convenient operation.

DIP switch can achieve one-key restoring factory defaults and product upgrade. When power supply or port has link failure, ALARM indicator will be bright and send out alarm, meanwhile, alarm device connected to the relay will send out alarm for rapid scene troubleshooting. Hardware adopts fanless, low power consumption, wide temperature and voltage design and has passed rigorous industrial standard tests, which can suit for the industrial scene environment with harsh requirements for EMC. It can be widely used in smart grid, rail transit, smart city, safety city, new energy, aerospace, intelligent manufacturing, military project and other industrial fields.

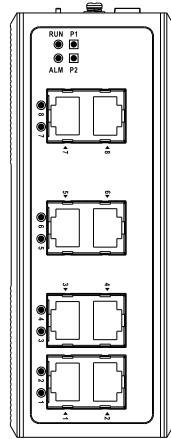
## Features and Benefits

- ⦿ SNMPv1/v2c is used for network management of various levels
- ⦿ Port mirroring can conduct data analysis and monitoring, which is convenient for online debugging
- ⦿ QoS supports real-time traffic classification and priority setting
- ⦿ File management is convenient for the device rapid configuration and online upgrading
- ⦿ Port statistics can be used for the port real time traffic statistics
- ⦿ User password can conduct user hierarchical management to improve the device management security
- ⦿ Relay alarm is convenient for troubleshooting of construction site
- ⦿ Storm suppression can restrain broadcast, unknown multicast and unicast
- ⦿ VLAN is used for simplifying network planning
- ⦿ Port Trunking and LACP can increase network bandwidth and enhance the reliability of network connection to achieve optimum bandwidth utilization
- ⦿ Bandwidth management and flow control can reasonably distribute network bandwidth, preventing unpredictable network status
- ⦿ IGMP Snooping and static multicast can be used for filtering multicast traffic to save the network bandwidth
- ⦿ SW-Ring and STP/RSTP can achieve network redundancy, preventing network storm

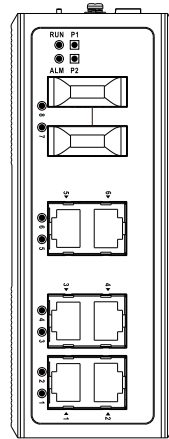
- LLDP can achieve automatic topology discovery, which is convenient for visual management

## Dimension

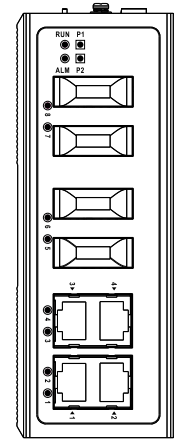
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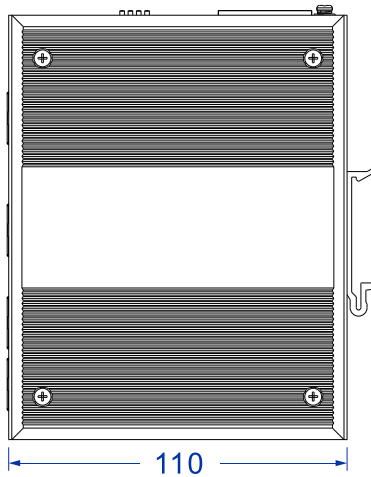
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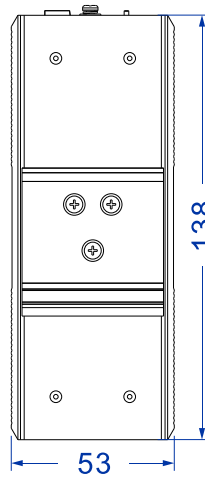
IES618-2F



IES618-4F

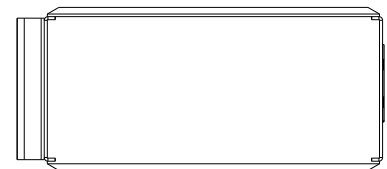
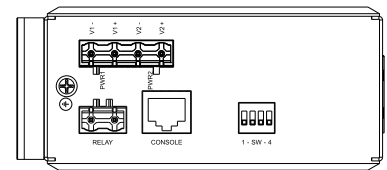


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## Specification

### Standard & Protocol

IEEE 802.3 for 10Base-T  
 IEEE 802.3u for 100Base-TX and 100Base-FX  
 IEEE 802.3x for Flow Control  
 IEEE 802.1D-2004 for Spanning Tree Protocol  
 IEEE 802.1w for Rapid Spanning Tree Protocol  
 IEEE 802.1Q for VLAN  
 IEEE 802.1p for CoS  
 IEEE 802.1AB for LLDP

Management	Console/Telnet/WEB management method, SNMP v1/v2c Centralized Management of Equipment, Port Mirroring, QoS, LLDP, File Management, Port Statistics														
Security	User privilege classification, relay alarm (port alarm and power alarm)														
Switch Function	802.1Q Vlan, Static Port Aggregation, Bandwidth Management, Flow Control														
Unicast / Multicast	IGMP snooping, static multicast														
Redundancy Technology	SW-Ring, STP/RSTP														
Interface	Copper port: 10/100Base-T(X), RJ45, Automatic Flow Control, Full/half Duplex Mode, MDI/MDI-X Autotuning Fiber port: 100Base-FX, optional SC/ST/FC Console port: CLI command line management port (RS-232), RJ45 Alarm port: 2-pin 7.62mm pitch terminal blocks, support 1 relay alarm output, current load capability is 1A@24VDC or 0.5A@120VAC														
Indicator	Running Indicator, Port Indicator, Power Supply Indicator, Alarm Indicator														
Switch Property	Transmission mode: store and forward MAC address: 2K Packet buffer size: 1Mbit Backplane bandwidth: 2G Switch time delay: <10μs														
Power supply	12~48VDC, 4-pin 7.62mm pitch terminal blocks Dual power supply redundancy, non-polarity and anti-reverse connection														
Power consumption	<table border="1"> <thead> <tr> <th>Available Models</th> <th>No-load (@12VDC)</th> <th>Full-load (@12VDC)</th> </tr> </thead> <tbody> <tr> <td>IES618</td> <td>1.38W</td> <td>3.47W</td> </tr> <tr> <td>IES618-2F</td> <td>3.11W</td> <td>5.68W</td> </tr> <tr> <td>IES618-4F</td> <td>4.93W</td> <td>6.40W</td> </tr> </tbody> </table>			Available Models	No-load (@12VDC)	Full-load (@12VDC)	IES618	1.38W	3.47W	IES618-2F	3.11W	5.68W	IES618-4F	4.93W	6.40W
Available Models	No-load (@12VDC)	Full-load (@12VDC)													
IES618	1.38W	3.47W													
IES618-2F	3.11W	5.68W													
IES618-4F	4.93W	6.40W													
Working environment	Operating temperature: -40~75°C Storage temperature: -40~85°C Relative humidity: 5%~95% (no condensation)														

Physical Characteristic	Housing: IP40 protection, metal Installation: DIN-Rail or wall mounting Dimension (W x H x D): 53mm×138mm×110mm Weight: ≤720g
Industrial Standard	IEC 61000-4-2 (ESD, electrostatic discharge), Level 3 IEC 61000-4-4 (EFT, electrical fast transient pulses), Level 3 IEC 61000-4-5 (Surge), Level 3 Shock: IEC60068-2-27 Free fall: IEC60068-2-23 Vibration: IES 60068-2-6
Certification	CE, FCC, RoHS, UL61010
Warranty	5 years



## Ordering Information

Available Models	100M fiber port	100M copper port	Power supply
IES618	—	8	12~48VDC dual power supply
IES618-2F	2	6	
IES618-4F	4	4	



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