3onedata

Make network communication more reliable

IES618 Series

DIN-Rail Mounting

8-port Layer 2 Managed Industrial Ethernet Switch

- Support 4 100M copper ports, 4 fiber or copper ports optional
- Adopt SW-Ring patent technology, support single ring, coupling ring, chain, Dual-homing, automatic recovery time of network failure < 20ms
- Support redundant 12~48VDC power supply input, nonpolarity, reverse polarity protection
- Support – 40~75℃ wide operating temperature range

Industrial Grade RPS

Introduction

IES618 series are layer 2 managed industrial Ethernet switches. This series include four types of products and provide different fiber and copper port combination, 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, etc. It also possesses complete management functions, including Port Configuration, Port Statistics, Access Control, Network Diagnosis, Rapid Configuration, Online Upgrading and so on. Moreover, it supports CLI, WEB, Telnet, SNMP and other access modes. It can provide users with good experience via friendly design of network management system interface, simple and convenient operation.

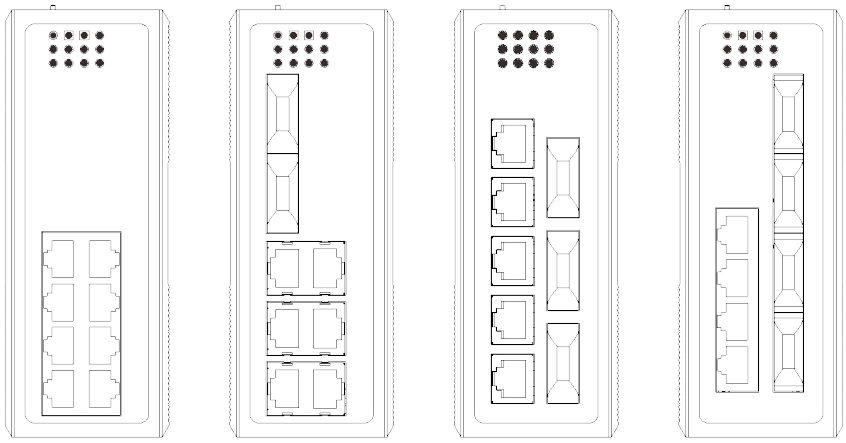
DIP switch can instantly restore factory defaults and achieve product upgrading. When power supply or port occurs link failure, ALARM indicator will be bright and send out alarm, meanwhile, alarm device connected to the relay will send out alarm for rapid scene troubleshooting. Hardware adopts fanless, 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.

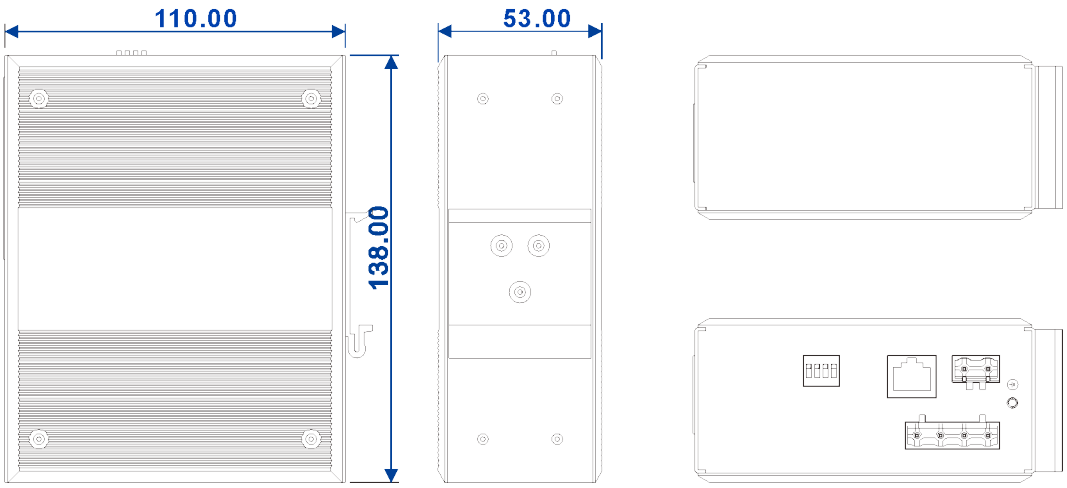
Features and Benefits

- 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 rapid configuration and online upgrade of the device
- Port statistics can be used for the port real time traffic statistics
- User password can conduct user hierarchical management to improve the device administrative security
- Relay alarm is convenient for troubleshooting of construction site
- Storm suppression can restrain broadcast, unknown multicast and unknown unicast
- VLAN can simplify the network planning
- Port trunking can increase network bandwidth and the reliability of network connection to achieve optimal bandwidth utilization
- Bandwidth management and flow control can reasonably distribute network bandwidth, preventing unpredictable network status
- 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

Dimension

Unit:mm





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
Management	Console/Telnet/WEB Management, SNMP v1/v2c Centralized Management of Equipment, Port Mirroring, QoS, File Management,

	Port Statistics
Security	Classification of User Permissions, Relay Alarm (Port Alarm and Power Supply Alarm)
Switch Function	802.1Q Vlan, Static Port Aggregation, Bandwidth Management, Flow Control
Unicast / Multicast	Static Multicast
Redundancy Protocol	SW-Ring, STP/RSTP
Interface	Copper port: 10/100Base-T(X) RJ45, Automatic Flow Control, Full/half Duplex Mode, MDI/MDI-X Autotunning Fiber port: 100Base-FX 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 carrying capacity 1A@24VDC or 0.5A@120VAC
LED 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: < 15μs
Power Requirement	12~48VDC, 4-pin 7.62mm pitch terminal blocks dual power supply redundancy, nonpolarity, reverse polarity protection
Power Consumption	See table below
Environmental Limit	Operating temperature: -40~75℃ Storage temperature: -40~85℃ Relative humidity: 5%～95%（no condensation）
Physical Characteristic	Housing: IP40 protection, metal Installation: DIN-Rail mounting Dimension (W x H x D): 53mm×138mm×110mm
Industrial Standard	IEC61000-4-2 (ESD), Level 4 ● Air discharge: ±15kV

Model	No-load (@24VDC)	Full-load (@24VDC)
IES618	1.46W	3.48W
IES618-2F	3.05W	4.68W
IES618-3F	4.30W	5.60W
IES618-4F	5.18W	6.52W

	• Contact discharge: ±8kV IEC61000-4-5 (Surge), Level 4 • Power supply: common mode ±4kV, differential mode ±2kV • Ethernet port: ±4kV Shock: IEC 60068-2-27 Free fall: IEC 60068-2-32 Vibration: IES 60068-2-6
Certification	CE, FCC, RoHS
Warranty	5 years

Ordering Information

Available Models	100M Fiber Port	100M Copper Port	Power Supply Range
IES618	—	8	12~48VDC dual power supply
IES618-2F	2	6	
IES618-3F	3	5	
IES618-4F	4	4	

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