IES615 Series

DIN-Rail or Wall Mounting

Layer 2 Managed Industrial Ethernet Switch with 2 Serial Ports

- Support 2 serial ports and 5 100M fiber/copper ports
- Adopt Ring patented technology, support single ring, coupling ring, chain, Dual-homing, automatic recovery time of network failure < 20ms
- It supports TCP Client, TCP Server, UDP, TcpAuto, advanced TCP Server, advanced UDP and other serial port working modes. It supports 12~48VDC dual power supply input, and the power supply supports reverse connection and non-polarity
- Support -40~75℃ wide operating temperature range

Industrial Grade

RPS

ROBUST INDUSTRIAL CONNECTION

Introduction

IES615 series are layer 2 managed industrial Ethernet switches with 2 serial ports and 5 Ethernet ports. This series provide 6 products and support 100M copper ports, 100M fiber ports, RS-232, RS-485 and other kinds of interfaces. They adopt wall or DIN-Rail mounting to meet the requirements of different application scenes.

Network management system supports various network protocols and industrial standards, such as RSTP, 802.1Q VLAN, QoS, IGMP Static Multicast, LLDP, Port Mirroring. It also possesses complete management functions, including Port Configuration, Port Statistics, Access Control, Network Diagnosis, Rapid Configuration, Online Upgrading and so on; each serial port supports 4 TCP or UDP session connections and multiple serial port work modes such as TCP Server, TCP Client and UDP; supports CLI, WEB, Telnet, SNMP and other access methods. Network management system could bring you great user experience through its friendly interface design and easy and convenient operation.

DIP switch can achieve restoring factory defaults. When power supply or port has link failure, 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 city, rail transit, smart city, safety city, new energy, intelligent manufacturing and other industrial fields.

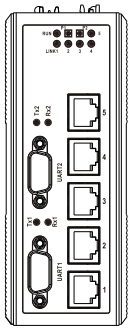
Features and Benefits

- 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
- LLDP can achieve automatic topology discovery, which is convenient for visual management
- File management is convenient for rapid configuration and online upgrading 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 management security
- Relay alarm is convenient for troubleshooting of construction site
- VLAN is used for simplifying network planning
- 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

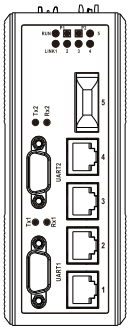
- Support multiple serial port modes: TCP Server, TCP Client, UDP, TCP auto, Realcom, advanced TCP Server and advanced UDP.

Dimension

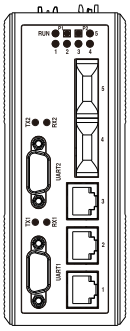
Unit: mm



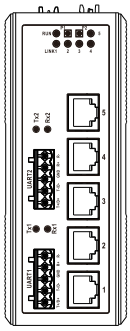
IES615
-2D(RS-232)



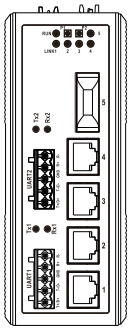
IES615-1F
-2D(RS-232)



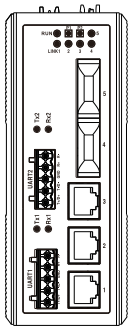
IES615-2F
-2D(RS-232)



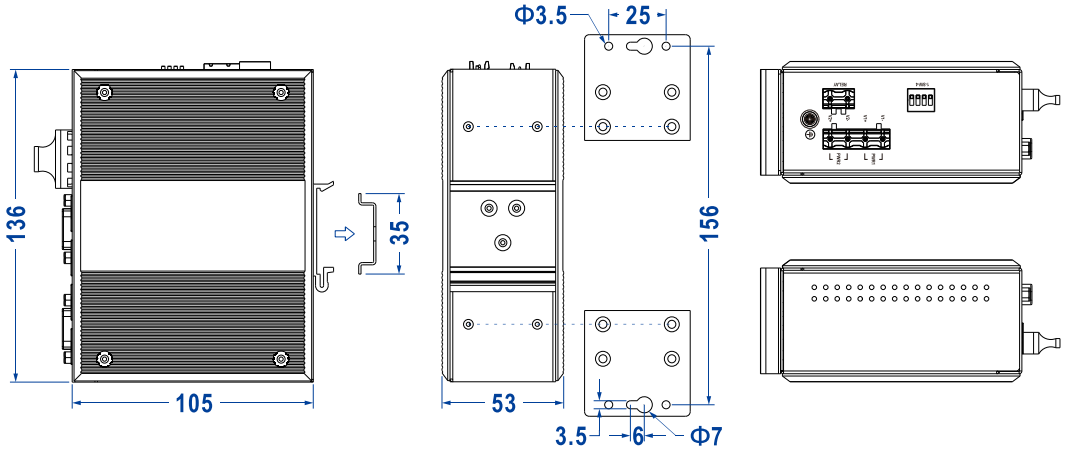
IES615
-2DI(RS-485)



IES615-1F
-2DI(RS-485)



IES615-2F
-2DI(RS-485)



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 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 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, bandwidth management, flow control
Unicast / Multicast	Static Multicast
Redundancy Technology	SW-Ring, STP/RSTP
Serial Server Function	Two serial port servers, each of which supports 4 TCP or UDP session connections; Multiple working modes: TCP Server, TCP Client, UDP, TCP auto, Realcom, advanced TCP Server and advanced UDP
Interface	Copper port: 10/100Base-T(X) RJ45, Automatic Flow Control, Full/Half Duplex Mode, MDI/ MDI-X Autotunning Fiber port: 100Base-FX Alarm port: 2-pin 7.62mm pitch terminal block, support 1 relay alarm output Current load capacity: 1A@24VDC, 0.5A@120VAC
Serial Port	RS-232 signal: TXD, RXD, RTS, CTS, DTR, DSR, GND RS-422 signal: T+, T-, R+, R-, GND RS-485 signal: D+, D-, GND Parity bit: None, Even, Odd Data bit: 8bits Stop bit: 1bit, 2bit Baud rate: 300~115200bps Interface form: RS-232 serial port, DB9 male RS-485/422 5-pin terminal block Load capacity: RS-485/422 supports 32 points polling (customizable 128 points) Directional control: RS-485 adopts Automatic Data Direction Control technology RS-232 interface protection: 5KV electrostatic protection RS-485/422 interface protection: 2KV isolation voltage, 15KV electrostatic protection
Indicator	Running Indicator, Port Indicator, Power Supply Indicator, Alarm Indicator

Switch Property	Transmission mode: store and forward MAC address: 2K Buffer: 0.5Mbit Backplane bandwidth: 1.2G Switch time delay: <15μs
Power Supply	12~48VDC, 4-pin 7.62mm pitch terminal blocks Dual power supply redundancy, non-polarity and anti-reverse connection Support built-in 3.0A overcurrent protection
Power Consumption	

Available Models	No-load (@24VDC)	Full-load (@24VDC)
IES615-2D(RS-232)	0.84W	1.54W
IES615-1F-2D(RS-232)	1.80W	2.40W
IES615-2F-2D(RS-232)	2.50W	3.00W
IES615-2DI(RS-485)	1.22W	1.90W
IES615-1F-2DI(RS-485)	2.10W	2.60W
IES615-2F-2DI(RS-485)	3.00W	3.50W

Working Environment	Operating temperature: -40~75℃ Storage temperature:-40~85℃ Relative humidity: 5% ~ 95% (no condensation)
Physical Characteristic	Housing: IP30 protection, high-strength corrugated metal Installation: DIN-Rail or wall mounting Dimension (W x H x D): 53mm×136mm×105mm
Industrial Standard	IEC61000-4-2 (ESD), Level 4 ● Air discharge: ± 15kV ● Contact discharge: ±8kV IEC61000-4-4 (EFT), Level 4 ● Power supply: ±4kV ● Ethernet port: ±2kV ● Relay: ±4kV IEC61000-4-5 (Surge), Level 4 ● Power Supply/Relay: common mode ±4kV, differential mode±2kV ● Ethernet interface: ±4kV Shock: IEC60068-2-27 Free fall: IEC60068-2-23 Vibration: IES 60068-2-6

Authentication	CE, FCC, RoHS
Warranty	5 years

Ordering Information

Available Models	100M Fiber Port	100M Copper Port	RS-232	RS-485/422 (with Isolation)	Power Supply
IES615-2D(RS-232)-N	—	5	2	—	12~48VDC dual power supply
IES615-1F-2D(RS-232)-N	1	4	2	—	
IES615-2F-2D(RS-232)-N	2	3	2	—	
IES615-2DI(RS-485)-N	—	5	—	2	
IES615-1F-2DI(RS-485)-N	1	4	—	2	
IES615-2F-2DI(RS-485)-N	2	3	—	2	