IES615-2DI (3IN1) series

5-Port Fast Ethernet + 2-Port RS-232/485/422

Managed Industrial Ethernet Switch

Features

- Supports IEEE802.3, IEEE802.3u, IEEE 802.3x, IEEE802.1Q, IEEE802.1p, IEEE802.1D, IEEE802.1W
- Supports 5-port Fast Ethernet, copper ports and optical fiber ports optional
- Supports 2-Port optical isolation of the three-in-one (RS-232/485/422) serial server
- Support based on socket application access
- Supports TCP Server, TCP Client, and UDP based mode; TCP Server and UDP advanced mode
- SW-Ring ring network patent technology (Fault recovery time<20ms）
- Support RSTP, way exchange time<1s
- Supports static multicast, QoS function
- Supports Port based VLAN and IEEE 802.1Q VLAN
- Supports rate control, frame statistics, port trunking and port mirroring
- Supports WEB, Telnet, and SNMP configuration
- Supports configuration file up and download
- Supports 2 power supply input and 1 relay alarm output
- Industrial grade design, -40~75°C work temperature
- IP40 protection grade, DIN-Rail mounting
- No fan design

Introduction

The IES615-2DI (3IN1) series is a managed industrial Ethernet switch that provides 5 Fast Ethernet ports, 2 three-in-one RS-232/485/422 serial ports. The electrical port supports 10 / 100M adaptive, MDI / MDI-X adaptive. Power supply supports 12 ~ 48VDC input. The -40 ~ 75 ℃ operating temperature range to adapt to the harsh working environment. Rail mounting features to meet the needs of industrial sites, the user's Ethernet equipment to provide a reliable, fast solution.

Specification

Technology

Standard: Support IEEE802.3, IEEE802.3u, IEEE802.3x, IEEE802.1Q, IEEE802.1p, IEEE802.1D/W

Protocol: ARP, ICMP, TCP, UDP, DHCP, DNS, HTTP, SW-Ring, RSTP, SNMP

Flow control: IEEE802.3x flow control, back press flow control

Function

Switch function: SW-Ring, QOS, 802.1QVLAN, RSTP, SNMP, Port trunking, static multicast filter, port mirroring, port flow statistics, upgrade online, up and download configuration file, username access system

Exchange attribute

100M forward speed: 148810pps

100M maximum filter speed: 148810pps

Transmit mode: store and forward

System exchange bandwidth: 1.2Gps

MAC address table: 2K

Memory: 1Mbit

Interface

Electric port: 10/100Base-T(X) auto-negotiation speed, Full/Half duplex mode, and auto MDI/MDI-X connection

Fiber port: 100Base-FX, SC/ST/FC connector, support single mode (20/40/60/80Km optional), multi-mode (2Km), wavelength: 1310nm, 1550nm

Console port: RS-232, RJ45 connector

Alarm Port: 2-pin 7.62 mm-spacing plug-in terminal block 1 channel relay alarm output

Serial Port: RS-485/422/232 (3IN1)

Serial

RS-232 signal: TX, RX, GND

RS-485 signal: D+, D-, GND

RS-422 signal: T+, T-, GND, R+, R-

Parity: None, Even, Odd, Space, Mark

Data bit: 5bit, 6bit, 7bit, 8bit

Stop bit: 1bit, 1.5bit, 2bit

Band rate; 300 ~ 115200bps

Connector: 5-pin terminal block

Support optical isolation protection

Transmission Distance

Twisted cable: 100M (standard CAT5/CAT5e cable)

Multi-mode: 1310nm, 2Km

Single-mode: 1310nm, 20/40/60Km

1550nm, 80/100/120Km

RS-232: 15m

RS-485/422: 1200m

LED indicator

Run indicator: RUN

Interface indicator: Link/ACT (1~5)

Power supply indicator: P1, P2

Alarm indicator: ALM

Serial port indicator: TX (1~2), RX (1~2)

Power supply

Input Voltage: 12 ~ 48VDC

Type of input: 4-pin 7.62mm-spacing plug-in terminal block

Support DC dual power supply redundancy

Support non-polarity

Consumption

IES615-2DI (3IN1)

Unload consumption: 2.50W@48VDC

Full-load consumption: 3.12W@48VDC

IES615-1F-2DI (3IN1)

Unload consumption: 2.88W@48VDC

Full-load consumption: 3.41W@48VDC

IES615-2F-2DI (3IN1)

Unload consumption: 3.36W@48VDC

Full-load consumption: 3.84W@48VDC

Working environment

Working temperature: -40~75°C

Storage temperature: -40~85°C

Relative Humidity: 5%~95 %(non-condensing)

Mechanical Structure

Shell: IP40 protect grade, metal shell

Installation: DIN rail mount

Size (W×H×D): 53mm×138mm×110mm

Weight: 680g (IES615-2DI)

690g (IES615-1F-2DI)

660g (IES615-2F-2DI)

Industry Standard

EMI: FCC Part 15, CISPR (EN55022) class A

EMS: IEC 61000-4-2 (ESD), Level 3

IEC 61000-4-4 (EFT), Level 3
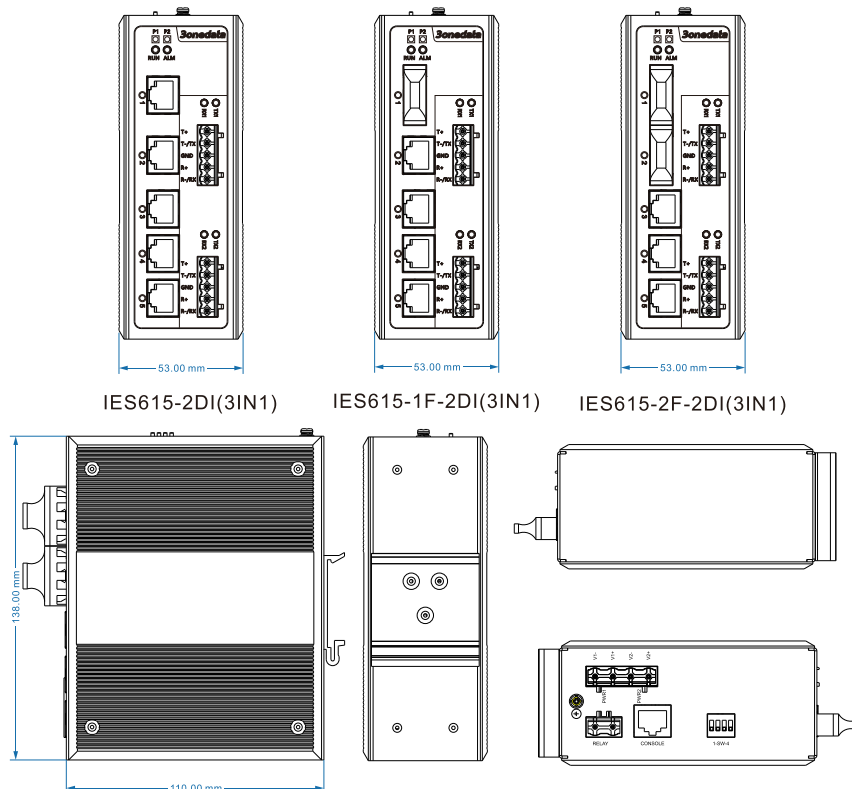
IEC 61000-4-5 (Surge), Level 3

Shock: IEC 60068-2-27

Free fall: IEC 60068-2-32

Vibration: IEC 60068-2-6

Warranty: 5 years

Dimension (Unit: mm)

IES615-2DI(3IN1)   IES615-1F-2DI(3IN1)   IES615-2F-2DI(3IN1)

Ordering Information

Available Models	Port Interface			Power Supply
	Fast Ethernet		Serial Port	
	10/100Base-T(X)	100Base-FX	RS-232/485/422	
	RJ45	SC/ST/FC,MM/SM/SS optional	5-pin terminal block	
IES615-2DI (3IN1)	5	-	2	12~48VDC
IES615-1F-2DI (3IN)	4	1	2	
IES615-2F-2DI (3IN1)	3	2	2	

MM: Multi-Mode

SM: Single-Mode

SS: Single-Mode, single fiber

Packing List

1. Industrial Ethernet Switch × 1
2. User manual × 1
3. Documentation and software CD × 1
4. Certificate of quality × 1
5. Warranty card × 1
6. DIN-Rail mounting kit × 1