

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

4-port 10/100Base-T(x) + 1-port 100Base-FX + 2-port RS-485/422

Managed Industrial Ethernet Switch

## Features

1. Support IEEE802.3, IEEE802.3u, IEEE 802.3x, IEEE802.1Q, IEEE802.1p, IEEE802.1D, IEEE802.1W
2. Support 2 port RS-485/422 serial device server
3. Support based on socket application access
4. Support TCP Sever, TCP Client and UDP based mode; TCP Sever and UDP advanced mode
5. Support RS-485 power and signal isolation AC2500V
6. SW-Ring ring network patent technology (Fault recovery time<20ms)
7. Support RSTP, way exchange time<50ms
8. Support static multicast and IGMP Snooping
9. Support Port based VLAN and IEEE 802.1Q VLAN
10. Support QOS function
11. Support rate control, port trunking and port mirroring
12. Support WEB and SNMP configuration
13. Support DHCP server and port frame statistics
14. Support configuration file up and download
15. Support 2 power supply input and 1 channel relay alarm output
16. Industrial grade design, -40~75℃work temperature
17. IP30 protection grade, DIN-Rail mounting
18. No fan deign



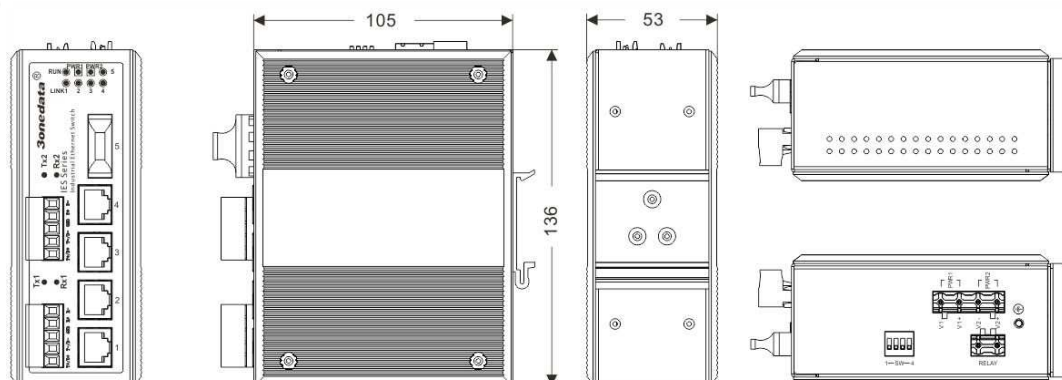
## Introduction

IES615-1F-2DI (RS-485) is an integrated serial server function of the managed industrial Ethernet switches. The industrial Ethernet switch consists of 4-port 10/100Base-T(x), 1-port 100Base-FX and 2-port RS-485/422. It adopted SW-Ring™ redundant technology (Recovery time<20ms), users can set the redundant easily to increase network reliability, furthermore. It adopted no fan, low power consumption

design, IP30, corrugate high strength iron shell, the performance is more steadily. It accorded with CE, FCC standard and industrial grade design, DIN rail installation and wide operating temperature (-40~75℃), it can satisfied some kinds of industrial environment, it can provide reliable and quickly solution for your Ethernet device.

## Dimension

Unit (mm)





## 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, back pressure 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, user name access system

SW-Ring: Support Single, Couple, Chain, Dual homing

### Exchange attribute

100M forward speed: 148810pps

Transmit mode: store and forward

Switching fabric capacity: 1.0Gbps

MAC address table: 2K

Memory: 1Mbit

### Interface

Electric port: 10Base-T/100Base-TX auto speed control, Half/full duplex and MDI/MDI-X auto detect

100M optic fiber port: 100Base-FX, SC/ST/FC connector

Alarm port: 2 bit 7.62mm terminal block,

1 channel relay alarm output

Current load capacity 1A@30VDC

Serial Port: RS-485/422 (terminal block)

### Serial

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 bit terminal block

RS-485/422 power isolation and signal isolation: AC2500V

### Transfer distance

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

Multi-mode: 1310nm, 2Km

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

1550nm, 80/100/120Km

RS-485/422: 1200m

### LED indicator

Run indicator: Run

Power supply indicator: PWR1, PWR2

Ethernet interface indicator: Link (1~5)

Serial port indicator: Tx (1~2), Rx (1~2)

### Power supply

Input voltage: 12~48VDC

Type of input: 4 bit 7.62mm pitch terminal block

Over-current protection: 4.0A

### Consumption

Unload consumption: 2.1W@24VDC

Full load consumption: 2.6W@24VDC

### Working environment

Working temperature: -40~75°C

Storage temperature: -40~85°C

Relative Humidity: 5%~95% (no condensation)

### Mechanical Structure

Shell: IP30 protect grade, metal shell

Installation: DIN-Rail mounting

Weight: 900g

Size (W×H×D): 53mm×105mm×136mm

### Industry Standard

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

EMS: EN61000-4-2 (ESD), Level 4

EN61000-4-3 (RS), Level 3

EN61000-4-4 (EFT), Level 4

EN61000-4-5 (Surge), Level 4

EN61000-4-6 (CS), Level 3

EN61000-4-8, Level 5

Shock: IEC 60068-2-27

Free fall: IEC 60068-2-32

Vibration: IEC 60068-2-6

### Certification

CE, FCC, RoHS, UL508 (Pending)

**Warranty:** 5 years

## Ordering Information

IES615-1F (M)-2DI (RS-485): 4 port 10/100Base-T(X) + 1 port 100Base-FX Multi-mode SC/ST/FC + 2 port RS-485/422, 12~48VDC

IES615-1F (S)-2DI (RS-485): 4 port 10/100Base-T(X) + 1 port 100Base-FX Single-mode SC/ST/FC + 2 port RS-485/422, 12~48VDC

IES615-1F (SS)-2DI (RS-485): 4 port 10/100Base-T(X) + 1 port 100Base-FX single-mode, single fiber SC/ST/FC + 2 port RS-485/422, 12~48VDC



## Packing List

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1. Industrial Ethernet switch (plus terminal block) ×1
2. CD × 1
3. User manual × 1
4. Certificate of quality × 1
5. Warranty card × 1
6. DIN-Rail mounting kit × 1