IES615-2D Series
Managed Industrial Ethernet Switch
Quick Installation Guide

【Package Checklist】

Please check the integrity of package and accessories while first using the switch.

1. Industrial Ethernet switch
2. DIN-Rail mounting attachment
3. Certification
4. Warranty card

If any of these items are damaged or lost, please contact our company or dealers, we will solve it ASAP.

【Product Overview】

This series are managed DIN-Rail industrial Ethernet switches. Models as follows:

Model I. IES615-2D(RS-232)-N (5 100M copper ports + 2 RS-232 serial ports)

Model II. IES615-1F-2D(RS-232)-N (1 100M fiber port + 4 100M copper ports + 2 RS-232 serial ports)

Model III. IES615-2F-2D(RS-232)-N (2 100M fiber ports + 3 100M copper ports + 2 RS-232 serial ports)

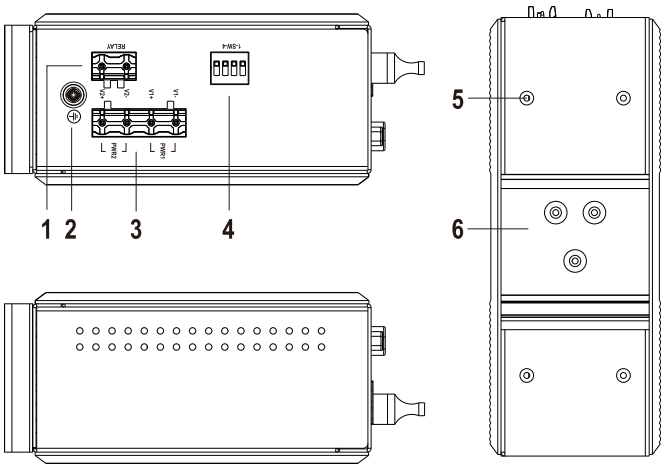
Model IV. IES615-2DI(RS-485)-N (5 100M copper ports + 2 RS-485/422 serial ports with Isolation)

Model V. IES615-1F-2DI(RS-485)-N (1 100M fiber port + 4 100M copper ports + 2 RS-485 / 422 serial ports with Isolation)

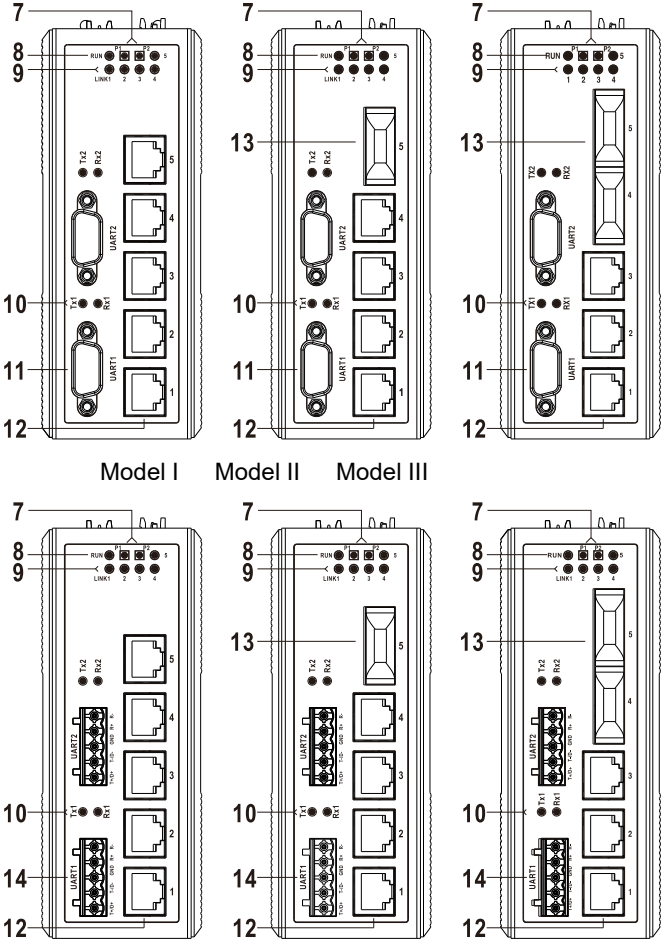
Model VI. IES615-2F-2DI(RS-485)-N (2 100M fiber ports + 3 100M copper ports + 2 RS-485/422 serial ports with Isolation)

【Panel Design】

➢ **Top view, bottom view and rear view**



➢ **Front View**

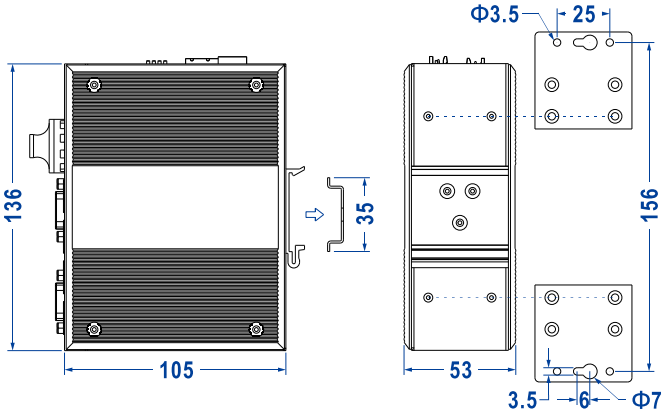


Model IV Model V Model VI

1. Relay alarm output terminal block
2. Grounding screw
3. Terminal blocks for power input
4. DIP switch
5. Wall-mounting location hole
6. DIN-Rail mounting kit
7. Power input status indicator P1/P2
8. Device running state indicator RUN
9. Ethernet port connection indicator
10. Serial port transmission and receiving data indicator
11. RS-232 serial port
12. 10/100Base-T(X) 100M Ethernet copper port
13. 100Base-FX 100M Ethernet fiber port
14. RS-485/422 serial port

【Mounting Dimension】

Unit: mm



Note:

The physical sizes of this series device are the same. The wall-mounting panel at the right side as shown above is not a standard attachment.

Notice Before Mounting:

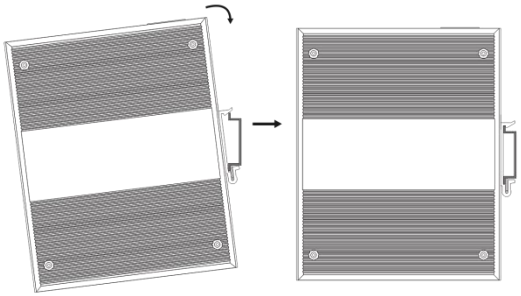
- Don't place or install the device in area near water or

moist, keep the relative humidity of the device surrounding between 5%~95% without condensation.

- Before power on, first confirm the supported power supply specification to avoid over-voltage damaging the device.
- The device surface temperature is high after running; please don't directly contact to avoid scalding.

【DIN-Rail Mounting】

The product adopts 35mm standard DIN-Rail mounting which is suitable for most industrial scenes, mounting steps as follows:



Step 1 Check if the DIN-Rail mounting kit is installed firmly.

Step 2 Insert the bottom of DIN-Rail mounting kit (one side with spring support) into DIN-Rail, and then insert the top into DIN-Rail.

Tips:

Insert a little to the bottom, lift upward and then insert to the top.

Step 3 Check and confirm the product is firmly installed on DIN-Rail, then mounting ends.

【Disassembling DIN-Rail】

Step 1 Power off the device.

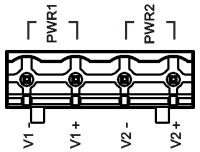
Step 2 After lifting the device upward slightly, first shift out the top of DIN-Rail mounting kit, and then shift out the bottom of DIN-Rail, disassembling ends.

Notice before power on:

- Power ON operation: First insert the power supply terminal block into the device power supply interface, then plug the power supply plug contact and power on.
- Power OFF operation: First, remove the power plug, then remove the wiring section of terminal block. Please pay attention to the above operation sequence.

【Power Supply Connection】

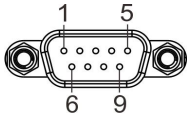
➢ **DC power supply**



The series of devices provide 4 pins power supply input terminal blocks and support two independent DC power supply systems, PWR1 and PWR2, which supports non-polarity function, that the device can work normally after reverse connection. Voltage range: 12~48VDC.

【Serial Port Connection】

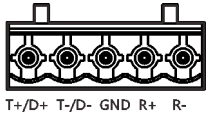
➢ **RS-232 serial port**



RS-232 serial port of this series of device adopts DB9 male connector, which supports serial server function. The pin definitions as shown in the following table:

PIN	1	2	3	4	5
RS-232	DCD	RXD	TXD	DTR	GND
PIN	6	7	8	9	
RS-232	DSR	RTS	CTS	RI	

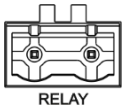
➢ **RS-485/422 serial port**



This series of device provides 5-pin 5.08mm pitch industrial terminal blocks, and supports RS-485/RS-422 serial port connection. The pin definitions as shown in the following table:

PIN	1	2	3	4	5
RS-485	D+	D-	GND	-	-
RS-422	T+	T-	GND	R+	R-

【Relay Connection】



Relay terminals are a set of normally open contacts of the device alarm relay. They are open circuit in the state of normal non alarm, closed when any alarm information occurs. For example, they are closed when powered off, and send out alarm. The product supports 1 relay alarm information output that can output DC power supply alarm information or network abnormality alarm. It can be connected to alarm light or alarm buzzer or other switching value collecting devices, which can timely inform operators when the alarm occurs.

【DIP Switch Settings】

Provide 4 pins DIP switch for function settings, where "ON" is enable valid terminal.

The definitions of DIP switch are as follows:

DIP switch	Definition	Operation
1-3	Reserved	-
4	Restore Factory Settings	Set the code to ON and power on the device again, then set it back.

【Checking LED Indicator】

The device provides LED indicators to monitor its operating status, which has simplified the overall troubleshooting process. The function of each LED is described in the table below:

LED	Indicate	Description
P1-P2	ON	Power is connected and running normally
	OFF	Power supply is disconnected or running abnormally
RUN	ON	The device is powering on or the device is abnormal.
	OFF	The device is powered off or the device is abnormal.
	Blinking	Blinking 1 time per second, the

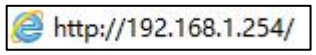
		device is running normally.
Link/Act (1-5)	ON	Ethernet port has established a valid network connection
	Blinking	Ethernet port is in an active network status
	OFF	Ethernet port has not established valid network connection
TX (1-2)	Blinking	The serial port is transmitting data.
	OFF	Abnormal serial data transmission or no data transmission
RX (1-2)	Blinking	The serial port is receiving data
	OFF	Abnormal serial data receiving or no data received.

【Logging in to WEB Interface】

This device supports WEB management and configuration. Computer can access the device via Ethernet interface. The way of logging in to device's configuration interface via IE browser is shown as below:

Step 1 Configure the IP addresses of computer and the device to the same network segment, and the network between them can be mutually accessed

Step 2 Enter device's IP address in the address bar of the computer browser.



Step 3 Enter device's username and password in the login window as shown below.

Step 4 Click "OK" button to login to the WEB interface of the device.

Note:

- The default IP address of the device is "192.168.1.254".
- The default user name and password of the device are "admin".
- If the username or password is lost, user can restore it to factory settings via device DIP switch or management software; all modified configurations will be cleared after restoring to factory settings, so please backup configuration file in advance.
- Please refer to user manual for specific configuration method of logging in to WEB interface and other configurations about network management function.

【Specification】

Panel	
100M copper port	10/100Base-T(X) self-adapting RJ45 port, half/full duplex self-adaption or forced working mode, support MDI/ MDI-X self-adaption
100M fiber port	100Base-FX, support SC/ST/FC interface
RS-232 serial port	DB9 male, 15kV electrostatic protection
RS-485/422 serial port	5-pin 5.08mm pitch terminal blocks, 2kV isolation voltage and 15kV electrostatic protection
Alarm interface	2-pin 7.62mm pitch terminal blocks, support 1 relay alarm output, current load capability is 1A/24VDC, 0.5A/120VAC
Indicator	Power supply indicator, run indicator, interface indicator, alarm indicator, serial port transmission indicator
Switch Property	
Backplane bandwidth	1.2G
Packet buffer size	0.5Mbit
MAC Address Table	2K
Power Supply	
Input power supply	12～48VDC； Support dual power supply redundancy and non-polarity; Support built-in 3.0A overcurrent protection
Access terminal block	4 pins 7.62mm pitch terminal blocks
Power Consumption	
Model I	No-load: 0.84W@24VDC Full-load: 1.54W@24VDC
Model II	No-load: 1.80W@24VDC Full-load: 2.40W@24VDC
Model III	No-load: 2.50W@24VDC Full-load: 3.00W@24VDC
Model IV	No-load: 1.22W@24VDC Full-load: 1.90W@24VDC
Model V	No-load: 2.10W@24VDC Full-load: 2.60W@24VDC

Model VI	No-load: 3.00W@24VDC Full-load: 3.50W@24VDC
Working Environment	
Working temperature	-40~75℃
Storage temperature	-40~85℃
Working humidity	5%～95% (no condensation)
Protection grade	IP30(aluminum shell)

【Disposal of Waste Electrical and Electronic Equipment (WEEE 2012/19/EU)】

(Applicable in the EU-member states)

The crossed-out wheeled bin symbol on the equipment or its packaging indicates that the product, at the end of its service life, shall not be mixed with unsorted municipal waste but should be collected separately, in accordance with local laws and regulations.

A proper separate collection of end-of-life equipment for the subsequent recycling, treatment and environmentally compatible disposal, will help prevent potential damage to the environment and human health, facilitating the reuse, recycling and/or recovery of its component materials.

Private users should contact their vendor or municipal waste management service and ask for disposal information.

Professional users should contact their suppliers and check the terms of their selling agreement.

This product must not be disposed of with other commercial waste.

Users' cooperation in the correct disposal of this product will contribute to saving valuable resources and protecting the environment.