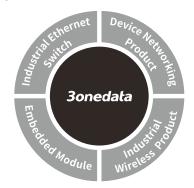![3onedata logo](Make network communication more reliable)

IES618 Series
Managed Industrial Ethernet Switch
Quick Installation Guide

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【Package Checklist】

Please check whether the package and accessories are intact while using the switch for the first time.

1	Industrial Ethernet switch	2	Quick installation guide
3	CD	4	DIN-Rail mounting attachment
5	Certification	6	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 100M managed DIN-Rail industrial Ethernet switches. For convenience, the products of this series adopt the following number on the left in this guide, please affirm the number of your product.
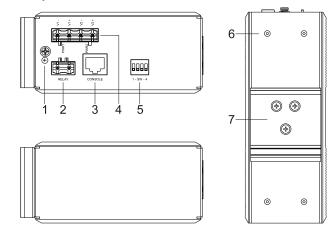
Model I. IES618 (8 100M copper ports, 12~48VDC dual power supplies)

Model II. IES618-2F (6 100M copper ports + 2 100M fiber ports, 12~48VDC dual power supplies)
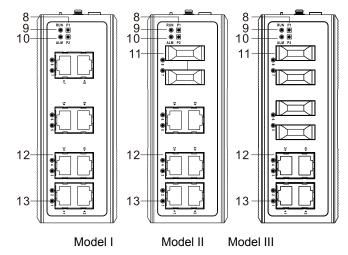
Model III. IES618-4F (4 100M copper ports + 4 100M fiber ports, 12~48VDC dual power supplies)

【Panel design】

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

➢ **Front View**

Model I Model II Model III
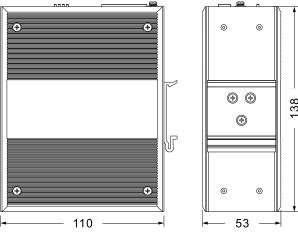
1. Grounding screw
2. Relay alarm output terminal block
3. Console Port
4. DC dual power input terminal block
5. DIP switch
6. location hole of Wall-mounting panel
7. DIN-Rail mounting kit
8. Power input status indicator P1/P2
9. Device running indicator RUN
10. Relay alarm indicator ALM
11. 10/100Base-T(X) 100M Ethernet copper port
12. 100Base-FX 100M Ethernet fiber port
13. Ethernet port Link indicator

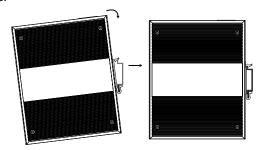## 【Mounting Dimension】

Unit: mm

⚠ **Note 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 products is firmly installed on DIN-Rail, then mounting ends.

【Disassembling DIN-Rail】
Step 1 Device power off.
Step 2 After lift 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.

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

【Power Supply Connection】
➢ **DC dual power supply**
The device provides 4 pins power supply input terminal blocks and supports two independent DC power supply systems, PWR1 and PWR2, which supports non-polarity and anti-reverse connection function, that the device can work normally after reverse connection. Voltage range: 12~48VDC.

【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】
The device provides 4 pins DIP switch for function setting, in which "ON" is the enabled end. The device needs to be powered on again to change the status of DIP switch.
DIP switches definition as follows:

DIP	Definition	Operation
1	Reserved	-
2	Upgrade	Set the DIP switch to ON, the device can be upgraded, then turn off the DIP switch when this upgrade completes.
3	Restore factory defaults	Set the DIP switch to ON, power on the device again, it will restore to factory settings, then turn off the DIP switch.
4	Reserved	-

【Console Port Connection】
 The device provides 1 channel procedure debugging port based on RS232 serial port, and can conduct device CLI command line management after connected to PC. The interface adopts RJ45 port, the RJ45 pin definition as follows:

Pin No.	2	3	5.
PIN definition	TXD	RXD	GND

【Checking LED Indicator】
The device provides LED indicators to monitor the device working status with a comprehensive simplified troubleshooting; the function of each LED is described in the table as below:

LED	Indicate	Description
P1/P2	ON	PWR is connected and running normally
	OFF	PWR is disconnected and running abnormally
ALM	ON	Power supply, port link alarm
	OFF	Power supply, port link without alarm
RUN	ON	The device is powered on or the device is abnormal.
	OFF	The device is powered off or the device is abnormal.
	Blinking	Blinking 1 time per second, system is running well.
Link/Act (1-8)	ON	The Ethernet interface has established an active network connection.
	Blinking	The Ethernet interface is in a network activity state.
	OFF	Ethernet port has not established valid network connection

【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.

http://192.168.1.254/

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

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

Notes:

- The default IP address of the device is "192.168.1.254".
- The default user name and password of the device is "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), RJ45, Automatic Flow Control, Full/half Duplex Mode, MDI/MDI-X Autotunning
100M fiber port	100Base-FX, optional SC/ST/FC
Console Port	CLI command management port (RS-232), RJ45
Alarm interface	2-pin 7.62mm pitch terminal blocks, support 1 relay alarm output, current load capability is 1A@24VDC or 0.5A@120VAC
Indicator	Power supply indicator, run indicator, interface indicator, alarm indicator
Switch property	
Backplane bandwidth	2G
Packet buffer size	1Mbit
MAC Address Table	2K
Power supply	
Input power supply	12~48VDC, dual power supply redundancy, non-polarity
Access terminal block	4 pins 7.62mm pitch terminal blocks
Power consumption	
Model I	No-load: 1.38W@12VDC Full-load: 3.47W@12VDC
Model II	No-load: Full-load: 5.68W@12VDC
Model III	No-load: 4.93W@12VDC Full-load: 6.40W@12VDC
Working environment	
Working temperature	-40～75℃
Storage temperature	-40～85℃
Working humidity	5%～95% (no condensation)
Protection grade	IP40 (metal shell)