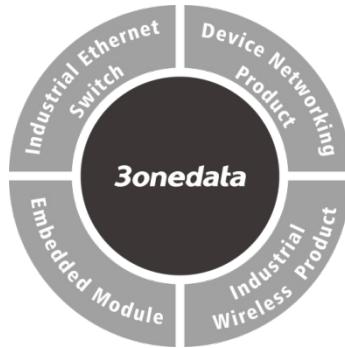


## IES7110 Series Managed Industrial Ethernet Switch Quick Installation Guide



### 3onedata Co., Ltd.

Address: 3/B, Zone 1, Baiwangxin High Technology Industrial Park, Song Bai Road, Nanshan District, Shenzhen, 518108, China  
 Website: [www.3onedata.com](http://www.3onedata.com)  
 Tel: +86 0755-26702688  
 Fax: +86 0755-26703485

### 【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. Power line (only for AC device)
4. Warranty card
5. Certification

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

### 【Product Overview】

This series products are 100M/Gigabit managed DIN-Rail industrial Ethernet switches. For convenience, the products of this series adopt the following number on the left in this guide, please confirm the number of your product:

Model I. IES7110-8T2GS-2P48 (8 100M copper ports + 2 Gigabit SFP slots + 2 12~48VDC power supply inputs)

Model II. IES7110-8T2GS-P220 (8 100M copper ports + 2 Gigabit SFP slots + 1 220VAC/DC power supply input)

Model III. IES7110-6T2F2GS-2P48 (6 100M copper ports + 2 100M fiber ports + 2 Gigabit SFP slots + 2 12~48VDC power supply inputs)

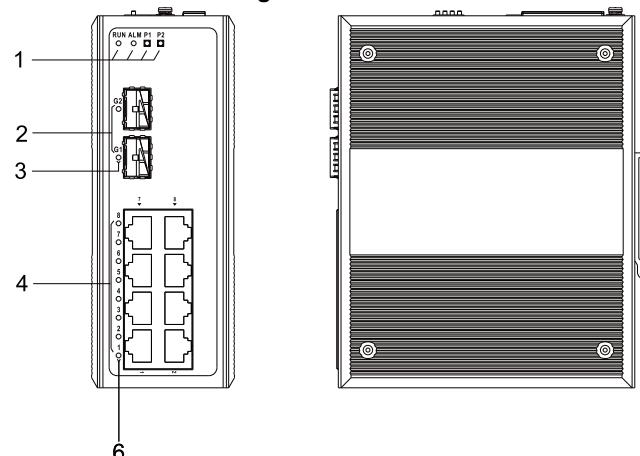
Model IV. IES7110-6T2F2GS-P220 (6 100M copper ports + 2 100M fiber ports + 2 Gigabit SFP slots + 1 220VAC/DC power supply input)

Model V. IES7110-4T4F2GS-2P48 (4 100M copper ports + 4 100M fiber ports + 2 Gigabit SFP slots + 2 12~48VDC power supply inputs)

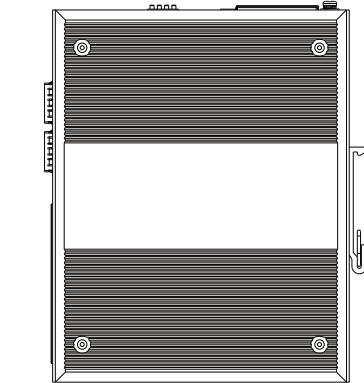
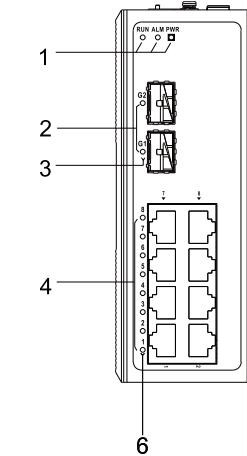
Model VI. IES7110-4T4F2GS-P220 (4 100M copper ports + 4 100M fiber ports + 2 Gigabit SFP slots + 1 220VAC/DC power supply input)

### 【Panel Design】

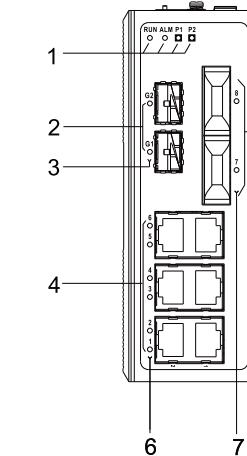
#### ➤ Main view and right view



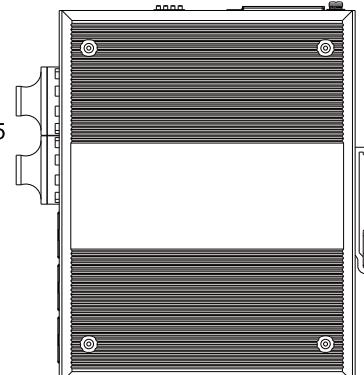
Model I

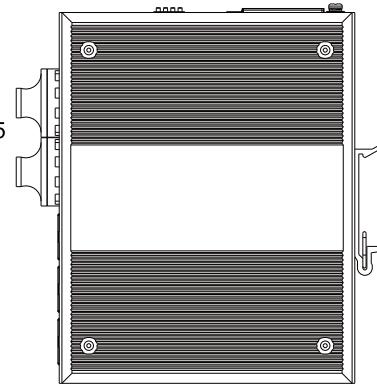
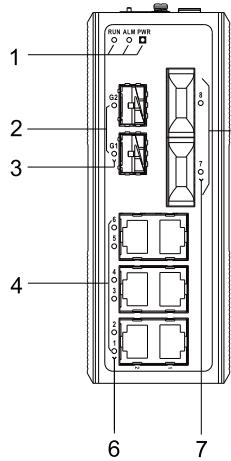


Model II

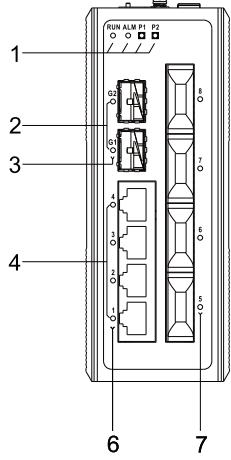


Model III

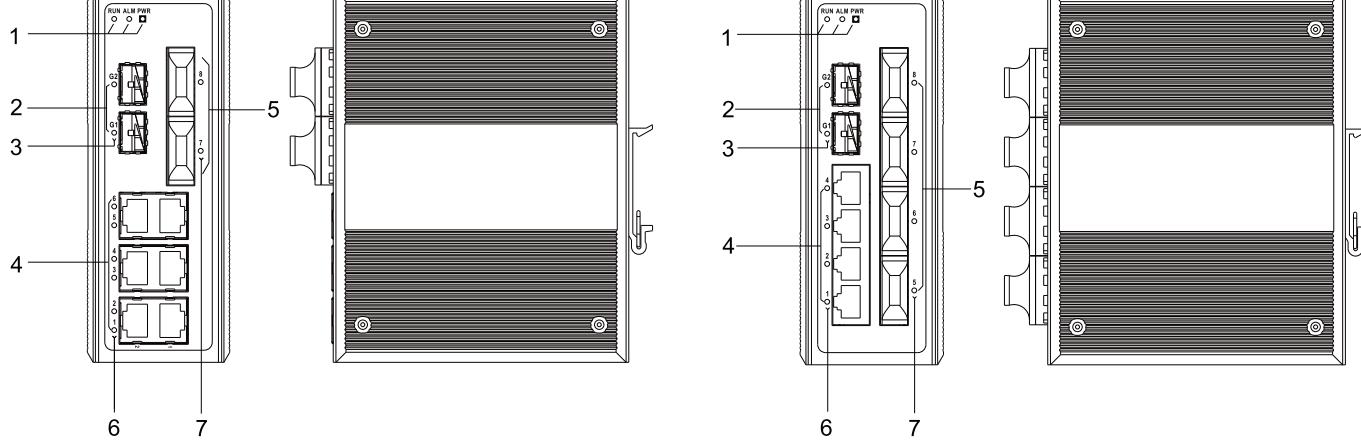




Model IV

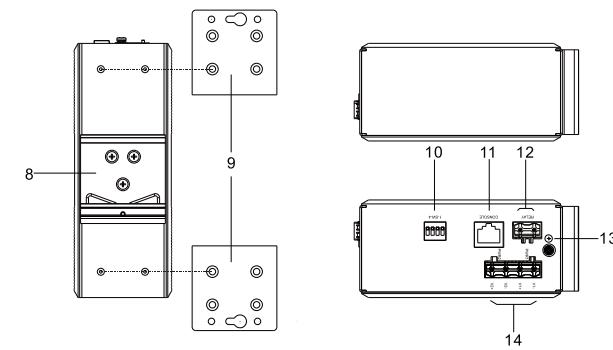


Model V



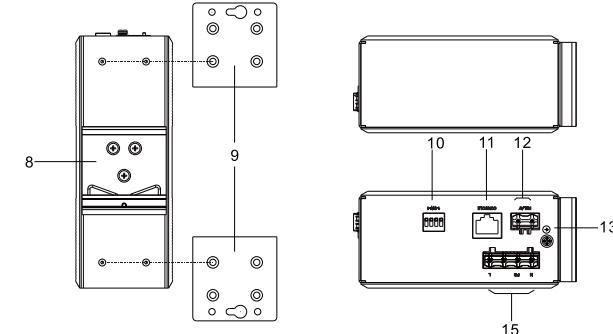
Model VI

➤ Rear view, bottom view and top view



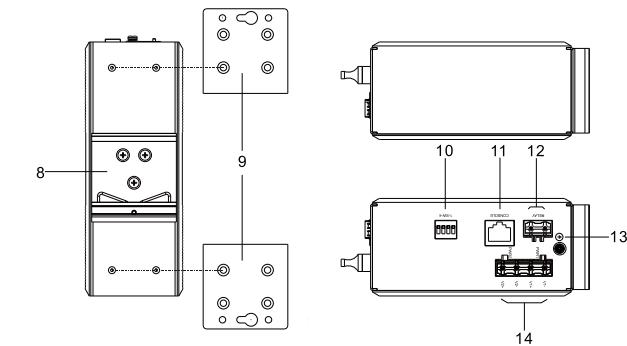
Model I

➤ Rear view, bottom view and top view

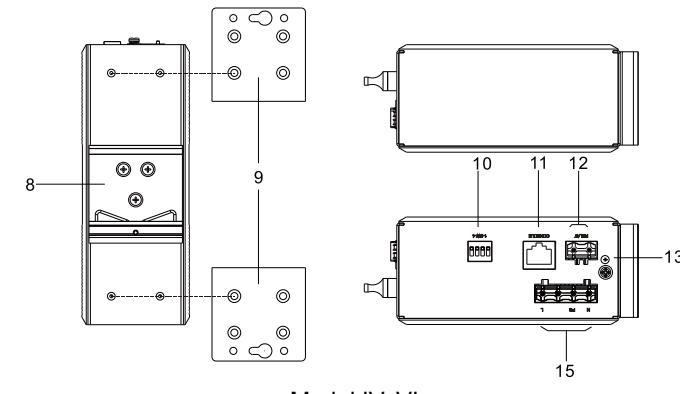


Model II

➤ Rear view, bottom view and top view



Model III, V



Model IV, VI

1. Indicators, from left to right in turn they are:
  - Running indicator (RUN)
  - Alarm indicator (ALARM)
  - Power indicator (P1/P2/PWR)
2. Gigabit Ethernet SFP slot (G1-G2)
3. Gigabit Ethernet SFP indicator (G1-G2)
4. 100M Ethernet copper port (1-4/6/8)
5. 100M Ethernet copper port indicator (1-4/6/8)
6. 100M Ethernet fiber port (5/7-8)
7. 100M Ethernet fiber port indicator (5/7-8)
8. DIN-Rail
9. Wall-mounting accessories (additional purchase required)

10. DIP switch
11. Console port
12. Terminal blocks for relay alarm output (RELAY)
13. Grounding screw (M3)
14. Terminal blocks for DC power input (V1+, V1-, V2+, V2-)
15. AC power input terminal block (N, FG, L)

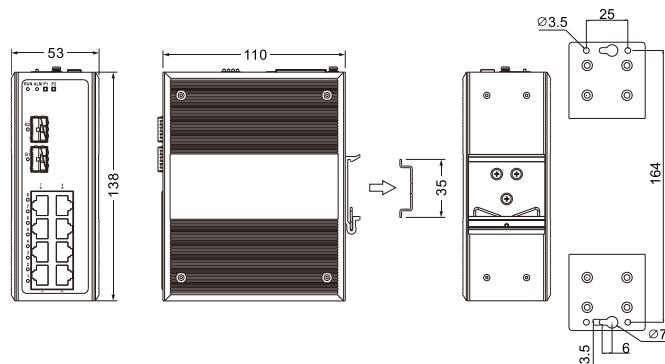
## 【Mounting Dimension】

Unit: mm



### Note:

All products in this series have the same installation size.

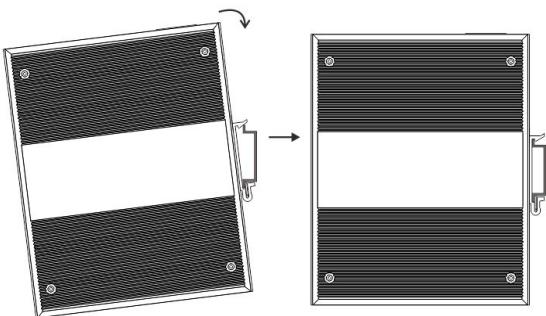


### Notice before Mounting:

- Don't place or install the device in area near water or moisture, keep the relative humidity of the device surrounding between 5%~95% without condensation.
- Before powering on the device, check the power specifications supported by the device to prevent device damage due to overvoltage.
- The device surface temperature is high after running; please don't directly contact to avoid scalding.

## 【DIN-Rail Mounting】

Adopt 35mm standard DIN-Rail mounting which is suitable for most industrial scenes, mounting steps are 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.

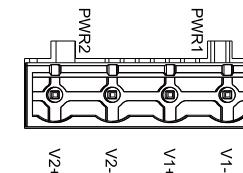


### Notice before Powering on:

- Power ON operation: First insert the power supply terminal block into the device power supply interface, and then plug the power supply plug 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.

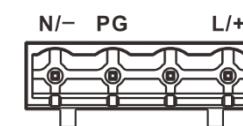
## 【Power Supply Connection】

### ➤ DC power supply



Model I, Model III and Model V support redundant power input, providing two power inputs, PWR1 and PWR2. You can use one or connect two independent external DC power supply systems. When connecting two power supplies to the device, it could ensure the continuous and normal operation of the device when one of the power systems fails. The power supply has the function of non-polarity connection, and the device can still work normally when it is reversely connected. Adopt 4-pin 7.62mm pitch power input terminal blocks, the terminal block definition is shown in the left figure. Voltage range: 12/24/48VDC (12~60VDC)

### ➤ AC power supply



Model II, IV, and VI adopts AC power supply, adopts 4-pin 7.62mm pitch power supply input terminal blocks, and the terminal block definition is shown in the left figure. Voltage range: 220VAC/DC (100~240VAC/DC).

## 【Relay Connection】

Support 1 RELAY alarm information output, and adopt 2-pin 7.62mm pitch terminal blocks. The relay supports the output of DC power supply alarm 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. The relay status is shown in the figure below.

Device Status	Relay Contacts	Alarm
Not powered on or powered off	Closed	Yes
Powered on, but not working properly	Closed	Yes
Powered on, and working	Disconnected	No

Device Status		Relay Contacts	Alarm
properly without triggering any alarm			
Powered on, and working properly, but it triggered alarms	Closed	Yes	

### DIP Switch Settings



Provide 4 pins DIP switch for function settings, where "ON" is enable valid terminal. The device needs to be powered on again to change the status of DIP switch.

The definitions of DIP switch are as follows:

No.	Definition	Operation
1	Reserved	—
2	Restore Factory Settings	Set the DIP switch to ON, restart the device, it will restore to factory settings, then turn off the DIP switch.
3	Burn Mode	This function is only for after-sales personnel to use
4	Reserved	—

### Console Port Connection

The device provides 1 program debugging port based on RS232 serial port which can conduct device CLI command management after connecting to PC. The interface adopts RJ45 port, the RJ45 pin definition as follows:

Pin No.	2	3	5
Definition	TXD	RXD	GND

### 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:

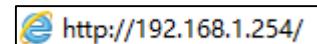
LED	Indicate	Description
PWR/P1/P2	ON	Power is connected and running normally

	OFF	Power supply is disconnected or running abnormally
ALARM	ON	Power supply or the port link is alarming.
	OFF	Power supply, port link without alarm
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, system is running normally
Link/Act (1-8/G1-G2)	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

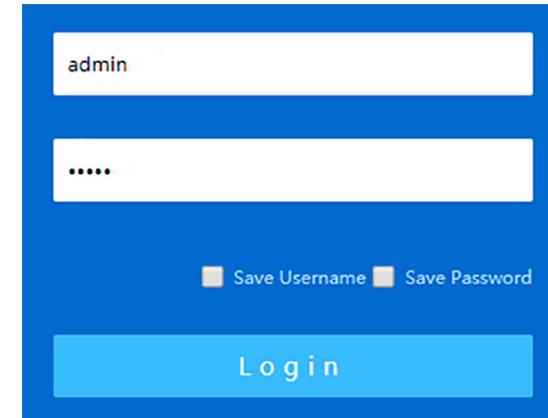
### Logging in to WEB Interface

Support 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	
Gigabit SFP	1000Base- SFP, SFP slot
100M fiber port	100Base-FX, optional SC/ST/FC
100M copper port	10Base-T/100Base-TX, RJ45, Automatic Flow Control, Full/Half Duplex Mode, MDI/MDI-X Autotunning

Console port	CLI command management port (RS-232), RJ45
Alarm port	2-pin 7.62mm pitch terminal blocks, support 1 relay alarm output, power load capability is 1A@24VDC
Indicator	Power supply indicator, run indicator, interface indicator, alarm indicator
<b>Switch Property</b>	
Backplane bandwidth	9.6G
Cache size	2Mbit
MAC address table	4K
<b>Power Supply</b>	
DC power supply	12/24/48VDC (12~60VDC), redundant dual power input, built-in overcurrent protection, support non-polarity
AC power supply	220VAC/DC (100~240VAC/DC), with built-in 5.0A overcurrent protection
Access terminal block	4-pin 7.62mm pitch terminal blocks
<b>Power Consumption</b>	
Model I	No-load: 3.8W@48VDC Full-load: 4.0W@48VDC
Model II	No-load: 4.1W@220VDC Full-load: 4.3W@220VDC
Model III	No-load: 5.6W@48VDC Full-load: 7.8W@48VDC
Model IV	No-load: 5.4W@220VDC Full-load: 6.8W@220VDC
Model V	No-load: 7.0W@48VDC Full-load: 8.6W@48VDC
Model VI	No-load: 6.8W@220VDC Full-load: 8.0W@220VDC
<b>Working Environment</b>	
Working temperature	-40~75°C

Storage temperature	Storage temperature: -40~60°C
Working humidity	5%~95% (no condensation)
Protection grade	IP40 (metal 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.