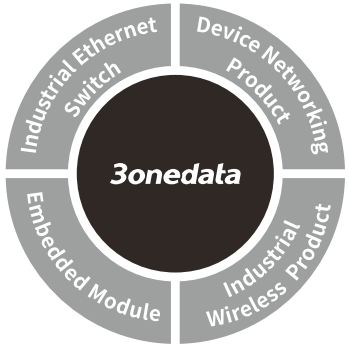
3onedata
Make network communication more reliable

# IES7116G-8GS Series
# Managed Industrial Ethernet Switch
# Quick Installation Guide




**3onedata Co., Ltd.**

Address: 3/B, Zone 1, Baiwangxin High Technology Industrial Park, Xili, Nanshan District, Shenzhen
Website: www.3onedata.com
Tel: +86 0755-26702688
Fax: +86 0755-26703485

## 【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. Certification
5. Warranty card 6. DIN-Rail mounting attachment

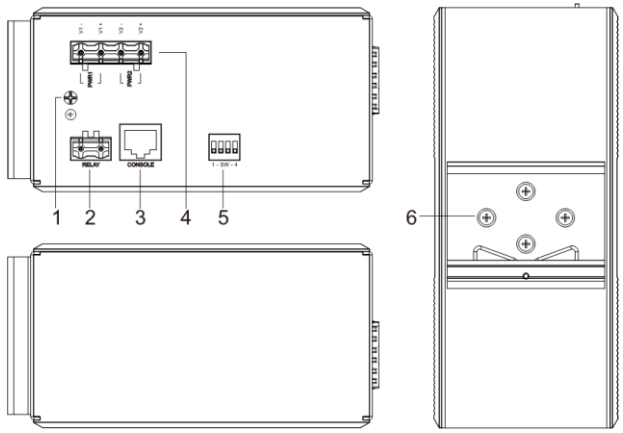
If any of these items are damaged or lost, please contact our company or dealers, we will solve it ASAP.

## 【Product Overview】

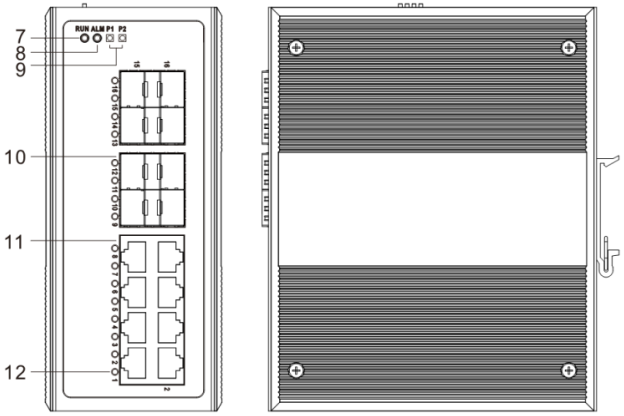
The product is full Gigabit managed DIN-Rail industrial Ethernet switch. Module as follow: IES7116G-8GS (8 1000Base-SFP interfaces + 8 1000Base-T ports).

## 【Panel Design】

➢ **Top view, Bottom view and Rear view**



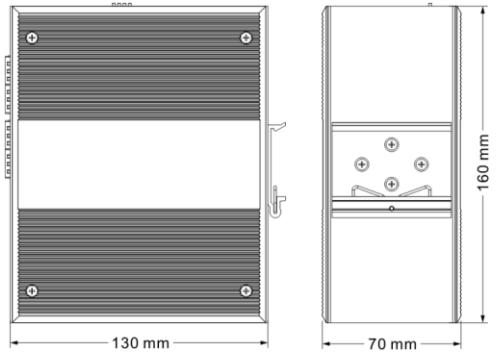

➢ **Front view**




1. Grounding screw
2. Relay alarm output terminal block
3. Console port
4. Power input terminal block
5. DIP switch
6. DIN-Rail mounting kit
7. Device running indicator RUN
8. Relay alarm indicator ALM
9. Power supply input status indicator P1/P2
10. 1000Base-SFP Gigabit Ethernet SFP slot
11. 10/100/1000Base-T(X) Ethernet port
12. Ethernet port status indicator:

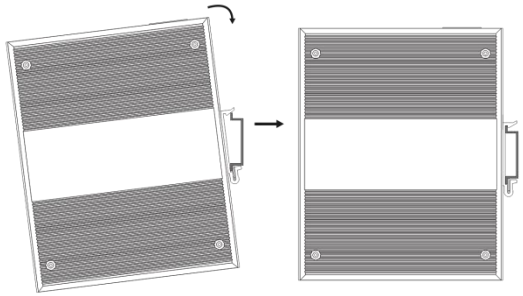
## 【Mounting Dimension】

Unit: mm




## 【DIN-Rail Mounting】

For convenient usage in industrial environments, the product adopts 35mm DIN-Rail mounting, mounting steps as below:



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 Device power off.

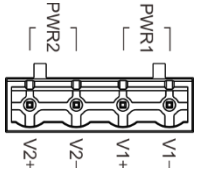
Step 2 After lift the device upward slightly, first shift out the top of DIN-Rail mounting kit, then shift out the bottom of DIN-Rail, disassembling ends.

**Note:**

- 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.

## 【Power Supply Connection】

➢ **DC power supply**

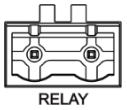



The series devices provide 4 bits power supply input terminal blocks and two independent DC power supply systems for PWR1 and PWR2. The power supply has nonpolarity and anti-reverse functions, it can normally operate after reverse connection. Power supply range: 12～48VDC

**Note:**

- Power ON operation: first connect power line to the connection terminal of device power supply, then power on.
- Power OFF operation: first unpin the power plug, then remove the power line, please note the operation order above.

## 【Relay Connection】




Relay terminals are a pair of normally open contacts in device alarm relay. They are open circuit in normal non alarm state, closed when any alarm information occurs. Such as: it's closed when power off, and send out alarm. This series switches support 1 channel relay alarm information output, support DC power alarm information or network abnormal alarm output, it can be connected to alerting lamp, alarm buzzer, or other switching value collecting devices for timely warning operating staffs when alarm information occurs.

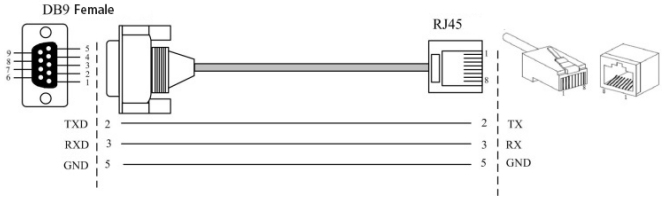
## 【DIP Switch Setting】


Provide 4-bits DIP switch for function setting, where "ON" is enable valid terminal. Please power off and power on after changing the status of DIP switch. DIP switch define as follow:

1. Reboot
2. Restore factory setting
3. Reserved
4. Reserved

## 【Console Port Connection】

The device provides 1 channel procedure debugging port based on serial port. The interface adopts RJ45 port, and can conduct device CLI command line management after connected to PC.




## 【Checking LED Indicator】

The function of each LED is described in the table as below:

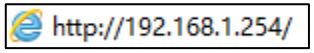
| LED | Status | Description |
|---|---|---|
| P1 | ON | PWR1 is connected and running normally |
| | OFF | PWR1 is disconnected and running abnormally. |
| P2 | ON | PWR2 is connected and running normally |
| | OFF | PWR2 is disconnected and running abnormally |
| ALM | ON | Power supply, port link 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 | System is running well. |
| Link/ACT (1-16) | ON | Ethernet port connection is active. |
| | Blinking | Data transmitted |
| | OFF | Ethernet port connection is inactive. |

## 【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 username 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** | |
|---|---|
| 1000M interface | 1000Base-SFP, SFP slot |
| 10/100/1000Base-T(X) | 10/100/1000Base-T(X) self-adapting RJ45 port, support MDI/MDI-X self-adapting |
| Console port | RJ45 |
| Alarm interface | 2-pin 7.62mm pitch terminal block |
| Indicator | Power indicator, run indicator, interface indicator and alarm indicator |
| **Exchange attributes** | |
| Backplane bandwidth | 56G |
| Packet buffer size | 12Mbit |
| MAC table size | 16K |
| **Power supply** | |
| Input power supply | 12~48VDC |
| Access terminal | 4-pin 7.62mm pitch terminal block |
| **Consumption** | |
| No-load | 10.99W@24VDC |
| Full-load | 20.69W@24VDC |
| **Working environment** | |
| Working temperature | -40℃~75℃ |
| Storage temperature | -40℃~75℃ |
| Working humidity | 5%~95% (no condensation) |
| Protection grade | IP40 (metal shell) |