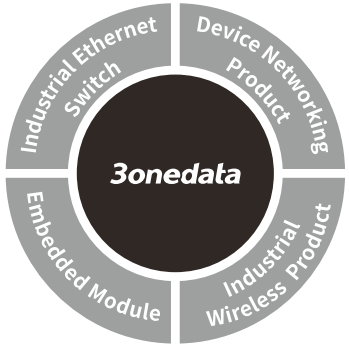
3onedata
Make network communication more reliable

IES6300SL Series
Layer 2 Managed Industrial Ethernet Switch
Quick Installation Guide



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【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 of product is Gigabit managed DIN-Rail industrial Ethernet switch. 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. IES6300SL-4GT2GS-2LV (4 Gigabit copper ports + 2 Gigabit SFP slots, 12~60VDC redundant power supply).

Model II. IES6300SL-8GT4GS-2LV (8 Gigabit copper ports + +4 Gigabit SFP slots, 12~60VDC redundant power supply).

Model III. IES6300SL-4GP2GS-2LV (4 Gigabit PoE copper ports + 2 Gigabit SFP slots, 44~57VDC redundant power supply).

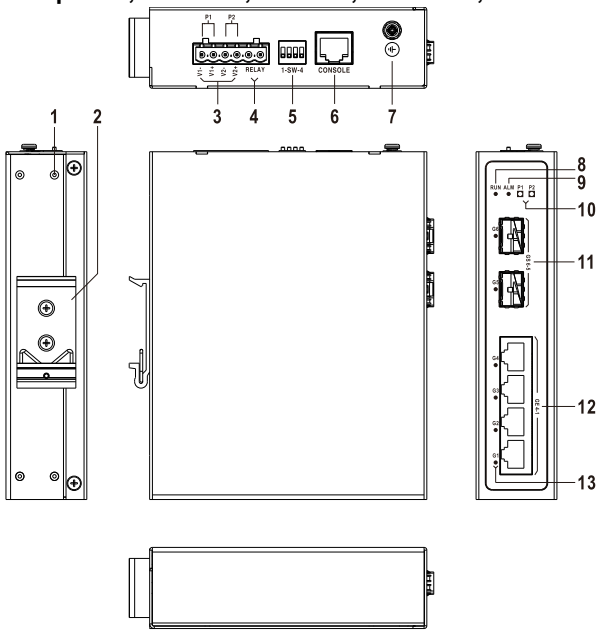
Model IV. IES6300SL-8GP4GS-2LV (8 Gigabit PoE copper ports +4 Gigabit SFP slots, 44~57VDC redundant power supply).

Model V. IES6300SL-16GT4GS-2LV (16 Gigabit copper ports + 4 Gigabit SFP slots, 12~60VDC redundant power supply).

Model VI. IES6300SL-16GP4GS-2LV (16 Gigabit PoE copper ports + 4 Gigabit SFP slots, 44~57VDC redundant power supply).

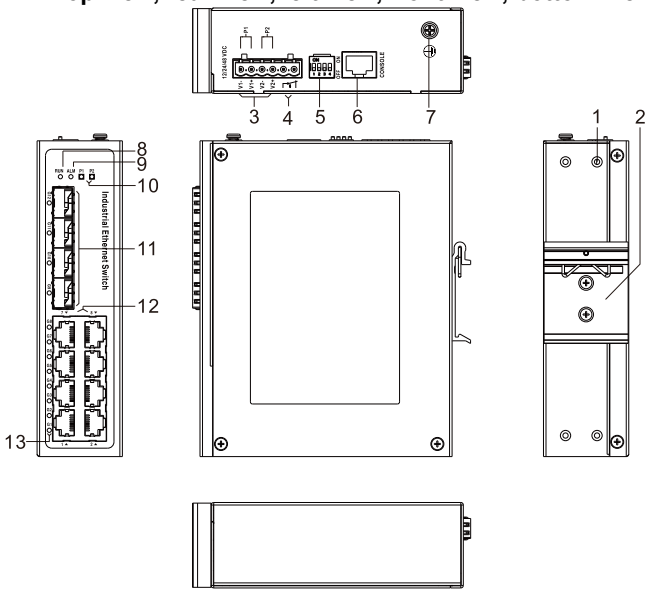
【Panel Design】

➢ **Top view, rear view, left view, front view, bottom view**



Model I

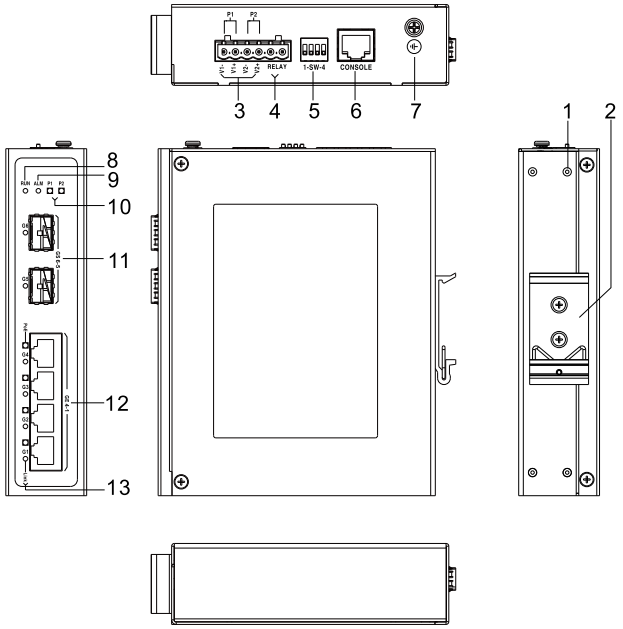
➢ **Top view, rear view, left view, front view, bottom view**



Model II

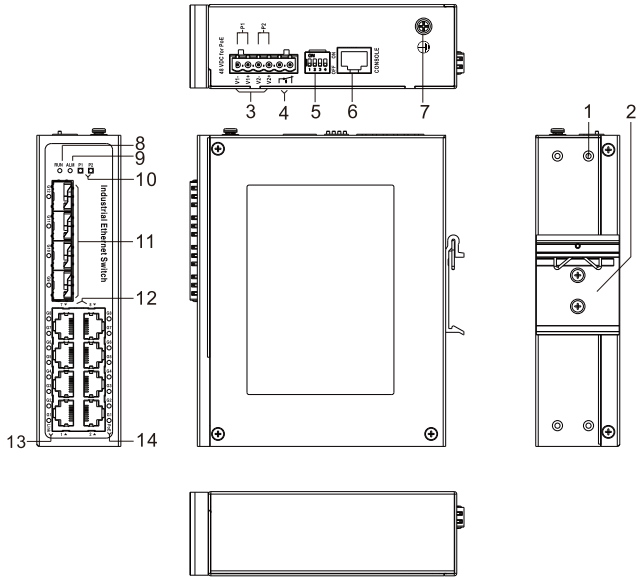
1. Wall-mounting location hole
2. DIN-Rail mounting kit
3. Power input terminal (P1-P2)
4. Terminal blocks for relay alarm output (RELAY)
5. DIP switch
6. CONSOLE port
7. Grounding screw (M4)
8. Running indicator (RUN)
9. Alarm indicator (ALM)
10. Power supply indicator (P1-P2)
11. 1000Base-X Gigabit SFP slot (GS6-GS5 or GS12-GS9)
12. 10/100/1000Base-T(X) Gigabit copper ports (GE4-GE1 or GE8-GE1)
13. Ethernet port indicator (G1-G6 or G1-G12)

➢ **Top view, front view, right view, rear view, bottom view**



Model III

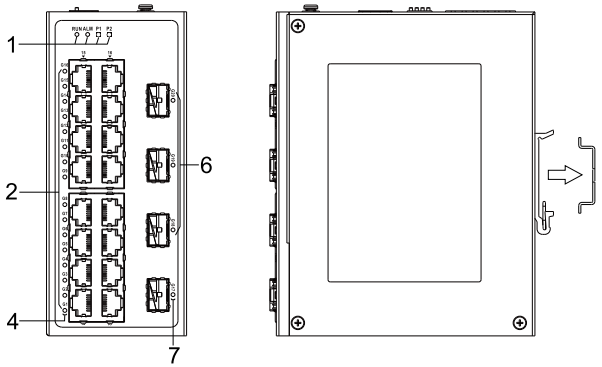
➢ **Top view, front view, right view, rear view, bottom view**



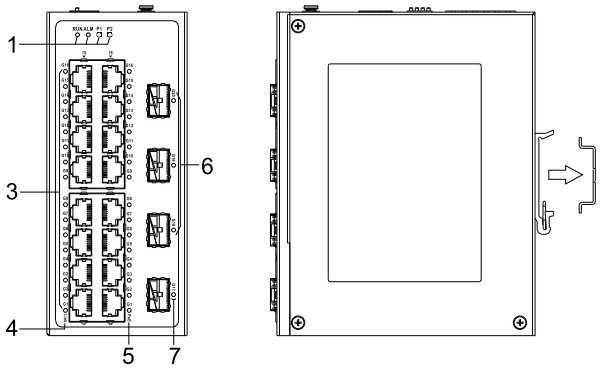
Model IV

1. Wall-mounting location hole
2. DIN-Rail mounting kit
3. Power input terminal (P1-P2)
4. Terminal blocks for relay alarm output (RELAY)
5. DIP switch
6. CONSOLE port
7. Grounding screw (M4)
8. Running indicator (RUN)
9. Alarm indicator (ALM)
10. Power supply indicator (P1-P2)
11. 1000Base-X Gigabit SFP slot (GS6-GS5 or GS12-GS9)
12. 10/100/1000Base-T(X) Gigabit PoE copper ports (GE4-GE1 or GE8-GE1)
13. Ethernet port indicator (G1-G6 or G1-G12)
14. PoE indicator (PoE: G1-G8)

➢ **Front view and right view**

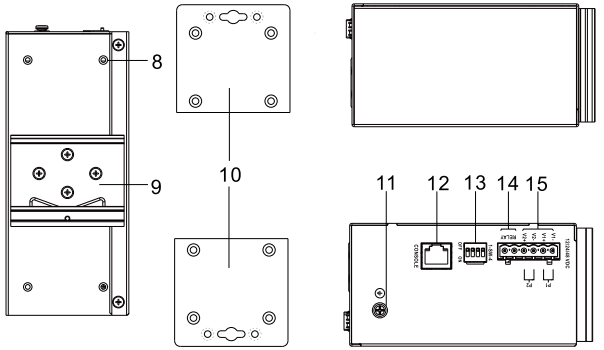


Model V

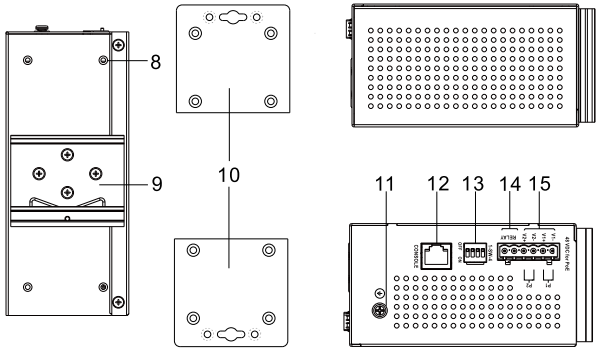


Model VI

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



Model V



Model VI

1. Indicators, from left to right are:
   - Running indicator (RUN)
   - Alarm indicator (ALM)
   - Power supply indicator (P1)
   - Power supply indicator (P2)
2. 10/100/1000Base-T(X) Gigabit copper port (G16-G1)
3. 10/100/1000Base-T(X) Gigabit PoE copper port (G16-G1)
4. Ethernet port indicator (G16-G1)
5. PoE indicator (G16-G1)
6. 1000Base-X Gigabit SFP slot (G20-G17)
7. SFP interface indicator (G20-G17)
8. Wall-mounting location hole
9. DIN-Rail mounting kit
10. Wall-mounting panel (additional purchase required)

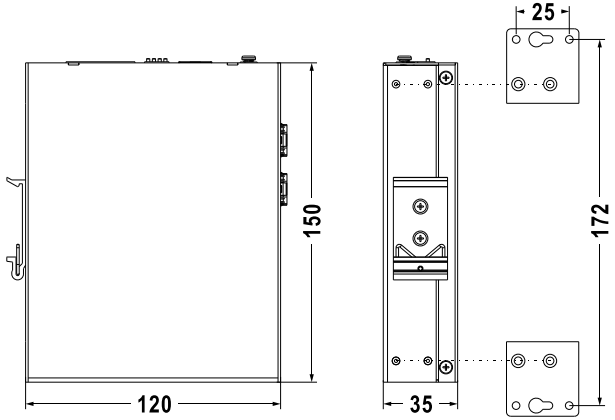
11. Grounding screw (M4)
12. CONSOLE port
13. DIP switch
14. Terminal blocks for relay alarm output (RELAY)
15. Power input terminal (P1-P2)

【Mounting Dimension】

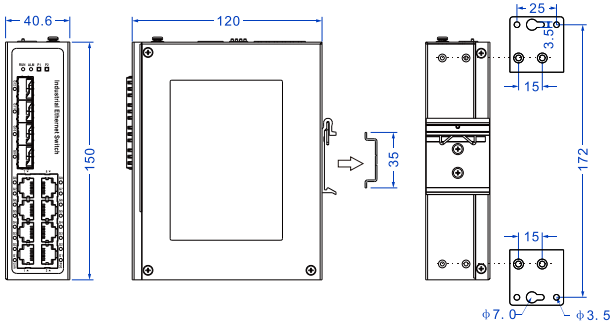
Unit: mm

Notes:

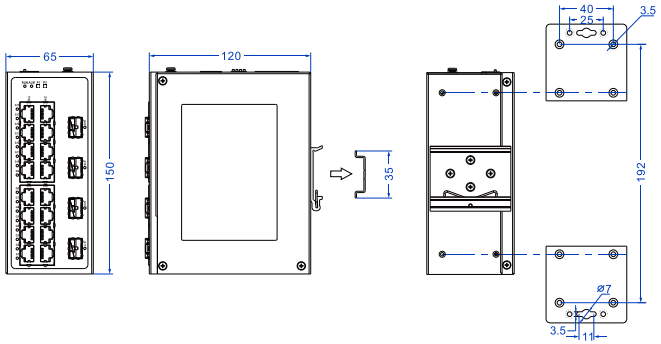
The wall-mounting panel at the right side of the figure below is an optional attachment, not standard; DIN-Rail kit is standard.



Model I, III



Model II, IV



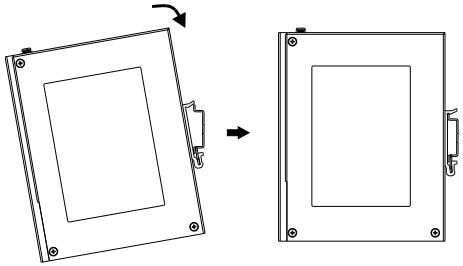
Model V, VI

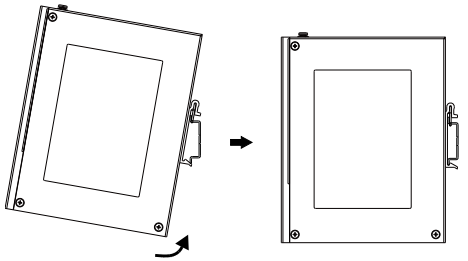
Notice Before Mounting:

- 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】

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】

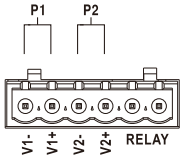
Step 1 Power off the device.

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 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.

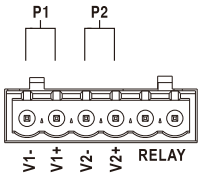
【Power Supply Connection】



Model I, II, III, IV, V and VI support P1, P2 dual power redundancy, and adopt 6-pin 5.08mm pitch terminals, and the power supply occupies the left 4 pins. The power

input supports 1 power supply alone or 2 power supply at the same time; When two power supply input at the same time, it supports redundant backup of power supply. If one power supply fails, the device can still work normally without interruption. Power supply supports anti-reverse connection, which cannot power the device but won't damage it when it's reversely connected. The power pin definitions are shown in the figure above. The power input range of model I, II and V is 12-60VDC, and the power input range of model III, IV and VI is 44-57VDC.

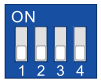
【Relay Connection】



Model I, II, III, IV, V and VI support 1 RELAY alarm information output, and adopt 6-pin 5.08mm pitch terminal blocks (relay occupies 2 pins on the right side). 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 properly without triggering any alarm	Disconnected	None
Powered on, and working properly, but it triggered alarms	Closed	Yes

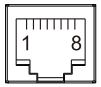
【DIP Switch Settings】



This series provides 4-pin DIP switch for function setting, where "ON" is the enabled end. DIP switches definition as follows:

No.	Definition	Operation
1	Restore Factory Settings	Set the DIP switch to ON, then set it back.
2	Reboot	Set the code to ON, then set it back.
3	Reserved	—
4	Reserved	—

【Console Port Connection】



The series provides 1 program debugging port based on RS-232 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

Connect the CONSOLE port through software. The default configuration is as follows:

Serial Port Connection	Default
Baud rate	115200 bps
Data bit	8 bits
Parity bit	None
Stop Bit	1 bit

【Checking LED Indicator】

The series provides LED indicators to monitor its operating status, which has simplified the overall troubleshooting process. The detailed status 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
ALM	ON	Power supply or port link has alarm
	OFF	Power supply, port link without alarm
RUN	ON	The device is powering on or the device is abnormal.
	Blinking	Blinking 1 time per second, system is running normally
	OFF	The device is powered off or the device is abnormal.
G1-G20	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】

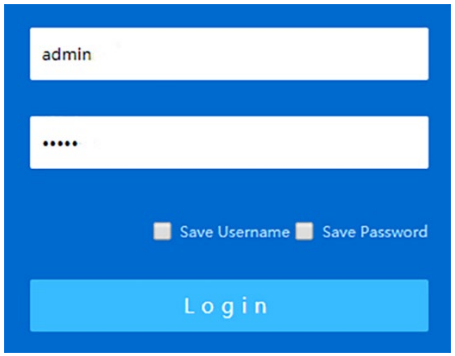
This series of devices supports WEB management and configuration, and computers can access devices through Ethernet interfaces. The way of logging in to device's configuration interface via IE browser is shown as below:

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 username and password in the login window as shown below.



Step 4 Click "Login" 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- X, SFP slot
Gigabit copper port (PoE optional)	10/100/1000 Base-T(X) self-adapting RJ45 port, half/full duplex self-adaption or forced working mode, support MDI/ MDI-X self-adaption
Console port	CLI command management port (RS-232), RJ45
Alarm port	Support 1 relay alarm information output, and adopt 6-pin 5.08mm pitch terminal blocks, relay occupies 2 pins
Indicator	Running Indicator, Alarm Indicator, Power Supply Indicator, Interface Indicator, PoE Indicator
Switch Property	
Model I, III	Backplane bandwidth: 20Gbps Cache size: 4.1Mbit MAC address table: 8K
Model II、IV、V、VI	Backplane bandwidth: 56Gbps Cache size: 4.1Mbit MAC address table: 8K
Power Supply	
Model I, II, V	12~60VDC dual power supply redundancy, support anti-reverse connection
Model III, IV, VI	44~57VDC dual power supply redundancy, support anti-reverse connection
Access terminal block	6-pin 5.08mm pitch terminal blocks (power supply occupies 4 pins)
Power Consumption	
Model I	No-load: 3.6W@48VDC Full-load: 5.7W@48VDC (high temperature)
Model II	No-load: 5.7W@48VDC Full-load: 10.1W@48VDC (high temperature)
Model III	No-load: 3.3W@48VDC Full-load: 113.3W@48VDC
Model IV	No-load: 4.6W@48VC Full-load: 229.3W@48VDC
Model V	No-load: 6.93W@48VC Full-load: 16.80W@48VDC (high temperature)
Model VI	No-load: 7.5W@48VDC Full-load(without PoE): 16.1W@48VDC Full-load(PoE): 248.1W@48VDC
Working Environment	
Working temperature	-40~75℃
Storage temperature	-40~85℃
Working humidity	5%～95% (no condensation)
Protection grade	Model I-V: IP40 (metal shell) Model VI: IP30(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.