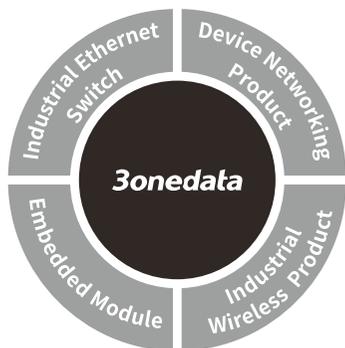


IES2105 Series Unmanaged Industrial Ethernet Switch Quick Installation Guide



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【Package Checklist】

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

1.	Switch (with terminal block)	2.	Quick installation guide
3.	DIN-Rail mounting attachment	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】

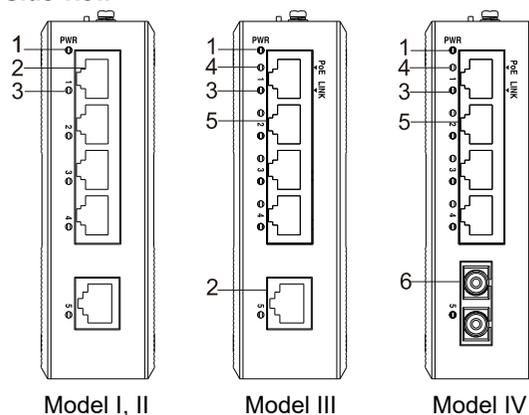
This series are 100M unmanaged industrial Ethernet switches. For convenience, the products of this series adopt the

following number on the left in this guide, please affirm the number of your product.

- Model I. IES2105-5T-P48 (5 100M copper ports + 1 48VDC power supply)
- Model II. IES2105-5T-P220 (5 100M copper ports + 1 220VAC power supply)
- Model III. IES2105-4P1T-P48 (4 100M PoE copper ports + 1 100M copper port + 1 48VDC power supply)
- Model IV. IES2105-4P1F-P48 (4 100M PoE copper ports + 1 100M fiber port + 1 48VDC power supply)
- Model V. IES2105-4T1F-P48 (4 100M copper ports + 1 100M fiber port + 1 48VDC power supply)
- Model VI. IES2105-4T1F-P220 (4 100M copper ports + 1 100M fiber port + 1 220VAC power supply)
- Model VII. IES2105-3T2F-P48 (3 100M copper ports + 2 100M fiber ports + 1 48VDC power supply)
- Model VIII. IES2105-3T2F-P220 (3 100M copper ports + 2 100M fiber ports + 1 220VAC power supply)

【Panel Design】

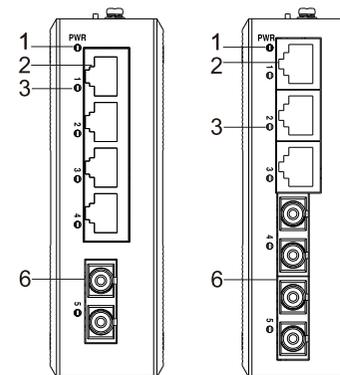
➤ Side view



Model I, II

Model III

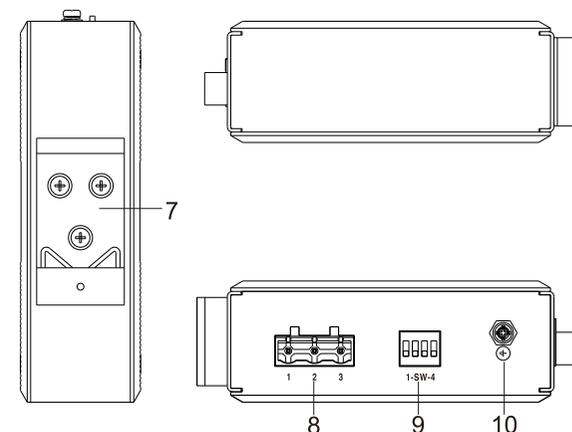
Model IV



Model V, VI

Model VII, VIII

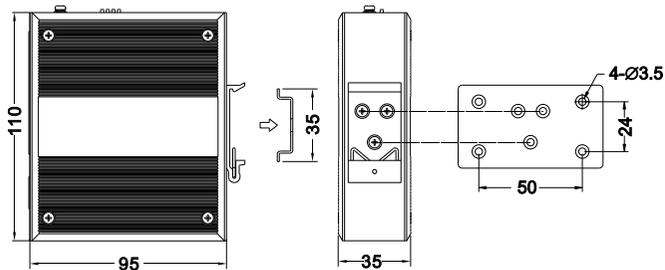
➤ Rear view, Bottom view and Top view



1. Power supply indicator
2. 100M copper port
3. Interface connection indicator
4. PoE indicator
5. 100M PoE copper port
6. 100M Fiber Port
7. DIN-Rail mounting kit
8. Terminal block for power input
9. DIP switch
10. Grounding screw

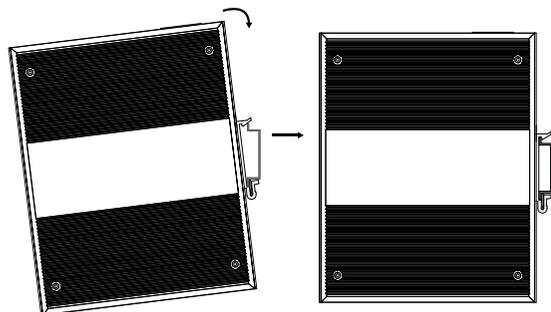
【Mounting Dimension】

Unit: mm



【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】

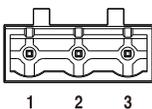
- Step 1 Power off device.
- Step 2 After lifting the device upward slightly, first shift out the top of DIN-Rail mounting kit, and then shift out the bottom of DIN-Rail, disassembling ends.

⚠ Notes:

- 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】

➤ 12~48VDC power supply

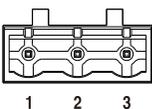


Model I, V, VII devices of this series support DC power input, and provide 3-pin terminals with a spacing of 7.62 mm. The power supply has non-polarity function. Voltage range:

12~48VDC. The pin definitions of power supply are shown as follows:

PIN	1	2	3
Definition	V+	FG	V-

➤ 48VDC power supply

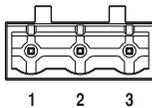


Model III, IV devices of this series support DC power input, and provide 3-pin terminals with a spacing of 7.62 mm. The power supply has anti-reverse connection function. Support

48V PoE, power range: 48VDC (44~55VDC). The pin definitions of power supply are shown as follows:

PIN	1	2	3
Definition	V+	FG	V-

➤ AC power supply



Model II, VI, VIII devices of this series support AC power input, and provide 3-pin terminals with a spacing of 7.62 mm. Power supply range: 220VAC (100~240VAC). The

pin definitions of power supply are shown as follows:

PIN	1	2	3
Definition	L	FG	N

⚠ Notice:

- 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.

【DIP Switch Settings】



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

DIP	Definition	Operation
1	Jumbo frame	Set the DIP to ON to enable jumbo frame function
2	Flow Control	Set the DIP to ON to enable flow control function
3	One-key VLAN	Set the DIP to ON to enable VLAN function. Copper port 1 is interconnected with other interfaces, and other ports except copper port 1 are isolated from each other.
4	Reserved	-

【Checking LED Indicator】

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

LED	Indicate	Description
PWR	ON	PWR is connected and running normally
	OFF	PWR is disconnected and running abnormally
PoE(1-4)	ON	POE port is powering other devices normally

	OFF	POE is disabled or disconnected
Link/ACT (1-5)	ON	Port has established valid network connection
	Blinking	Port is receiving/ transmitting data
	OFF	Port hasn't established valid network connection

【Specification】

Panel	
100M Fiber Port	100Base-FX, optional SC/ST/FC
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 POE copper port	10/100Base-T(X) RJ45, automatic flow control, full/half duplex mode, MDI/ MDI-X autotunning, POE port, output power of 15W or 30W.
POE pin	V+, V+, V-, V- are corresponding to 1, 2, 3, 6.
Indicator	Power indicator, PoE indicator, interface indicator
Power supply	
Input power supply	<ul style="list-style-type: none"> ➢ 12~48VDC power supply, support non-polarity ➢ 48VDC power supply: 44~55VDC, support anti-reverse connection ➢ 220VAC power supply: 100~240VAC
Access terminal block	3-pin 7.62mm pitch terminal blocks
Switch Property	
Backplane bandwidth	1G
MAC address	2K

Power consumption	
Model I	No-load: ≤0.96W@48VDC Full-load: ≤1.4W@48VDC
Model IV	No-load: ≤2W@48VDC Full-load: ≤110W@48VDC (with PoE full load)
Working Environment	
Working temperature	-40~75°C
Storage temperature	-40~85°C
Working humidity	5%~95% (no condensation)
Protection grade	IP40 (metal shell)