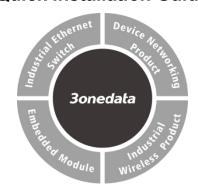


IES318 Series Unmanaged Industrial Ethernet Switch Quick Installation Guide



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 the integrity of package and accessories while first using the switch.

- Industrial Ethernet switch
- 2. DIN-Rail mounting attachment
- 3. Power line (AC device standard)
- 4. Certificate
- 5. Warranty card

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

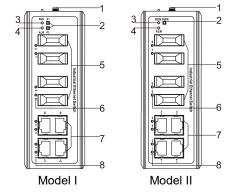
[Product Overview]

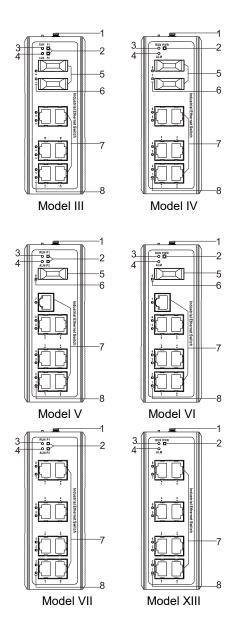
This series of products is a plug and play unmanaged industrial Ethernet switch, with the following options available

- Model I. IES318-4T4F-2P48 (4 100M copper ports + 4 100M fiber ports + 9~60VDC dual power supply)
- Model II. IES318-4T4F-P220 (4 100M copper ports + 4 100M fiber ports + 220VAC/DC power input)
- Model III. IES318-6T2F-2P48 (6 100M copper ports + 2 100M fiber ports + 9~60VDC dual power supply)
- Model IV. IES318-6T2F-P220 (6 100M copper ports + 2 100M fiber ports + 220VAC/DC power input)
- Model V. IES318-7T1F-2P48 (7 100M copper ports + 1 100M fiber port + 9~60VDC dual power supply)
- Model VI. IES318-7T1F-P220 (7 100M copper ports + 1 100M fiber port + 220VAC/DC power input)
- Model VII. IES318-8T-2P48 (8 100M copper ports + 9~60VDC dual power supply)
- Model VIII. IES318-8T-P220 (8 100M copper ports + 220VAC/DC power input)

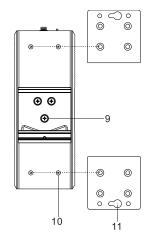
[Panel Design]

Front view

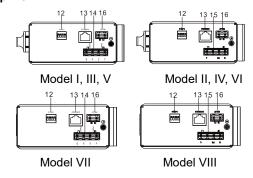




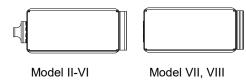
Rear view



> Top view



Bottom view



- 1. Grounding screw (M3)
- 2. Power input status indicator (P1, P2, PWR)
- 3. Device running state indicator RUN
- 4. Relay alarm indicator ALM
- 5. 100M Ethernet fiber port (5-8)
- 6. 100M Ethernet fiber port indicator (5-8)
- 7. 100M Ethernet copper port (1-8)
- 8. 100M Ethernet copper port indicator (1-8)
- 9. DIN-Rail mounting kit

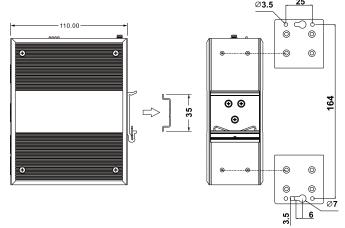
- 10. Wall-mounting location hole
- 11. Wall mounting board (optional)
- 12. DIP switch
- 13. Console port
- 14. DC power input terminal block
- 15. AC power input terminal block
- 16. Relay alarm output terminal block

[Mounting Dimension]

Unit: mm



In the figure, the right side hanging panel are non-factory standard and need additional purchase.



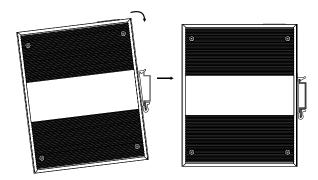
\triangle

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.

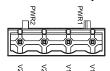


Notice before Powering on:

- 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]

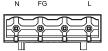
DC dual power supply



Model I, Model III, Model V, and Model VII 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 rated voltage is 12/24/48VDC, and the power supply range is $9\sim60$ VDC. The pin definitions are shown in the figure.

Single AC power supply



Model II, Model IV, Model VI and Model VIII support single AC power supply and provide 4-pin 7.62mm pitch input terminal

blocks. Power range: 85~264VAC/DC. The pin definitions are shown in the figure.

[Relay Connection]



The access terminals of the relay are located on the upper panel of the device. The terminals are a set of normally open contacts of the device alarm relay, which are closed when there is no alarm in

normal conditions and open when any alarm message occurs. This series supports 1 relay alarm information output, which can be set on or off through DIP switch. The series can externally connect to alarm lights or alarm buzzer or other switching value collecting device in order to timely notify operators when the alarm occurs.

[DIP Switch Settings]



Provide 4 DIP switches for function settings, where "ON" is enable valid terminal. The definitions of DIP switch are as follows:

No.	Definition	Operation
4	D 4 Al	Set the DIP switch to ON to
Power i Alarn	Power 1 Alarm	enable Power 1 Alarm
2	Power 2 Alarm	Set the DIP switch to ON to

No.	Definition	Operation
		enable Power 2 Alarm
3	Flow Control	Set the DIP switch to ON to
		enable Flow Control
4 Port Alarm	Set the DIP switch to ON to	
	Port Alarm	enable Port Alarm

[Console Port Connection]

Provide 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



Console port function is reserved, and not open yet.

[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	
	ON	PWR is connected and	
PWR/P1/P2	ON	running normally	
PWR/PI/P2	OFF	Power supply is disconnected	
	OFF	or running abnormally	
	ON	Power supply, port link alarm	
ALM	OFF	Power supply, port link without	
		alarm	
	ON	The device is powering on or	
	ON	the device is abnormal.	
RUN	OFF	The device is powered off or	
KON	OFF	running normally Power supply is disconnected or running abnormally Power supply, port link alarm Power supply, port link without alarm The device is powering on or the device is abnormal.	
	Blinking	Blinking 1 time per second,	
		system is running normally	

	ON	The Ethernet interface has established a valid network connection.
Link/Act (1~8)	OFF	Ethernet port has not established valid network connection
	Blinking	Ethernet port is in an active network status

[Specification]

Specification	
Panel	
100M fiber new	100Base-X, interfaces support
100M fiber port	SC/ST/FC (optional)
	10Base-T/100Base-TX, RJ45,
10014	Automatic Flow Control,
100M copper port	Full/Half Duplex Mode,
	MDI/MDI-X Autotunning
Console port	CLI command management
(Reserved)	port (RS-232), RJ45
	2-pin 7.62mm pitch terminal
	blocks, supports 1 relay alarm
Alarm port	output, and the current load
	capacity is 1A@24VDC or
	0.5A@120VAC
	Power supply indicator, run
Indicator	indicator, interface indicator,
	alarm indicator
Switch Property	
Backplane bandwidth	1.6G
Cache size	1Mbit
MAC address table	2K
Power Supply	
	12/24/48VDC (9~60VDC), dual
DC nower cumply	power supply, built-in
DC power supply	overcurrent protection, support
	non-polarity
AC power supply	220 VAC/DC

	(85~264VAC/DC), with built-in
	overcurrent protection
Access terminal block	4-pin 7.62mm pitch terminal
Access terminal block	blocks
Power Consumption	
Model I	No-load: 3.8W@48VDC
	Full-load: 4.3W@48VDC
Madal II	No-load: 4.2W@220.6VAC
Model II	Full-load: 4.7W@221VAC
Model III	No-load: 2.2W@48VDC
Model III	Full-load: 3.0W@48VDC
Model IV	No-load: 2.6W@220.4VAC
Model IV	Full-load: 3.3W@220VAC
Madal V	No-load: 0.9W@48VDC
Model V	Full-load: 1.9W@48VDC
Model VI	No-load: 2.1W@220VAC
	Full-load: 2.8W@220VAC
Madal VIII	No-load: 0.9W@48VDC
Model VII	Full-load: 1.9W@48VDC
Model VIII	No-load: 1.2W@220VAC
Model VIII	Full-load: 2.0W@220VAC
Working Environment	
Working temperature	-40°C~75°C
Storage temperature	-40°C~85°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.