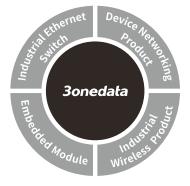
3onedata

IES6116 Series Managed 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.

- Industrial Ethernet switch 1.
- 2. Certification

Warranty card

4.

- 3. Quick installation guide
- 5. **DIN-Rail mounting attachment** 6 CD

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 managed DIN-Rail industrial Ethernet switches. Models as follows:

Model I. IES6116-P(12~48VDC) (16 100M copper ports + 2

 $12 \sim 48$ VDC power supplies)

Model II. IES6116-P(100~240VAC/DC) (16 100M copper ports

+1 100~240VAC/DC power supply)

Model III. IES6116-2F-P(12~48VDC) (14 100M copper ports

+2 100M fiber ports +2 12 \sim 48VDC power supplies) Model IV. IES6116-2F-P(100~240VAC/DC) (14 100M copper ports +2 100M fiber ports +1 100~240VAC/DC power supply)

Model V.IES6116-4F-P(12~48VDC) (12 100M copper ports +4 100M fiber ports +2 12~48VDC power supplies) Model VI. IES6116-4F-P(100~240VAC/DC) (12 100M copper ports +4 100M fiber ports +1 100~240VAC/DC

power supply)

Model VII. IES6116-6F-P(12~48VDC) (10 100M copper ports +6 100M fiber ports +2 12~48VDC power supplies) Model VIII. IES6116-6F-P(100~240VAC/DC) (10 100M

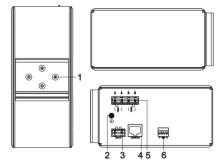
copper ports +6 100M fiber ports +1 100 \sim 240VAC/DC power supply)

Model IX. IES6116-8F-P(12~48VDC) (8 100M copper ports +8 100M fiber ports +2 12~48VDC power supply)

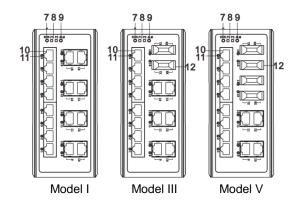
Model X.IES6116-8F-P(100~240VAC/DC) (8 100M copper ports +8 100M fiber ports +1 100~240VAC/DC power supply)

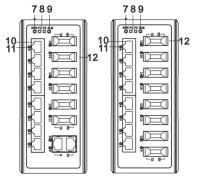
[Panel Design of DC Device]

Top view, Bottom view and Rear view



\triangleright Front view





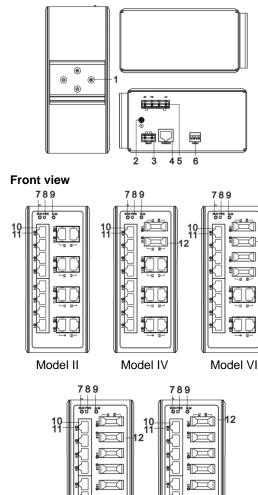
Model VII

Model IX

- 1. DIN-Rail mounting kit
- 2. Grounding screw
- 3. Relay alarm output terminal block
- 4. Console port
- 5. DC dual power input terminal block
- 6. **DIP** switch
- 7. Device running indicator RUN
- 8. Power supply input status indicator P1/P2
- 9. Relay alarm indicator ALM
- 10. 10/100Base-T(X) Ethernet copper port
- Ethernet port connection indicator 11.
- 12. 100Base-FX Ethernet fiber port

[Panel Design of AC Device]

 \geq Top view, Bottom view and Rear view



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Model X

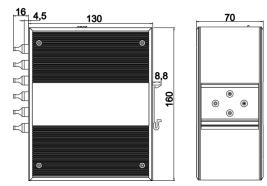
- Model VIII
- 1. **DIN-Rail mounting kit**
- 2. Grounding screw
- 3. Relay alarm output terminal block
- 4. Console port
- 5. AC single power input terminal block
- 6. **DIP** switch
- 7. Device running indicator RUN

- 8. Power supply input status indicator PWR
- 9. Relay alarm indicator ALM
- 10. 10/100Base-T(X) Ethernet copper port
- 11. Ethernet port connection indicator
- 12. 100Base-FX Ethernet fiber port

[Mounting Dimension]

Unit: mm

12

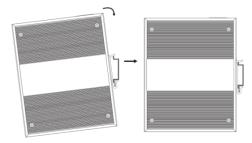


Attention before mounting:

- 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.

[DIN-Rail Mounting]

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



- Step 1 Check whether the DIN-Rail mounting kit that comes with the device 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.

Check and confirm the product is firmly installed on Step 3 DIN-Rail, and then mounting ends.

[Disassembling DIN-Rail]

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

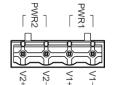


Attention before powering on:

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

[Power Supply Connection]

 \geq DC dual power supply

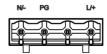


The products of model I, model III, model V, model VII, model IX support DC dual power supply and provide 4 pins power supply input terminal blocks and two independent DC power supply

systems of PWR1 and PWR2.

Power supply range: 12~48VDC

AC single power supply



The products of model II, model IV, model VI, model VIII, model X support AC single power supply and provide 4

pins 7.62mm pitch power input terminal blocks. The definitions of terminal blocks as follows: N/-, PG, L/+. Power supply range: $100 \sim 240$ VAC/DC.

[Relay Connection]



Relay terminal blocks are a pair of normally open contacts in the alarm relay of the device. They are open circuit in the status of normal no

alarm, and closed when any warning message occurs. For example: they are closed and send out alarm when power off. The product supports 1 relay warning message output, and warning messages output of the DC power supply or network abnormal alarm output. It can be connected to alarm indicator, alarm buzzer, or other switching value collecting devices for timely warning operating staffs when the warning message occurs.

[DIP Switch Settings]



The product provides 4 pins DIP switch for function settings, where "ON" is the enable valid terminal. Please power on again before changing the DIP switch status.

DIP switch definitions as follows:

DIP	Definition	Operation
1.	Reserved	-
2.	Restore	Set the DIP switch to ON, the
	factory	device will automatically
	defaults	restore factory defaults, and
		then turn off the DIP switch.
3.	Upgrade	Set the DIP switch to ON for
		upgrading the device, and then
		turn it off.
4.	Reserved	-

【Console Port Connection】

The device provides 1 procedure debugging port based on serial port, and can manage the CLI command line of the device after connected to PC. The interface adopts RJ45 port, the RJ45 pins definition as follows:

Definition TXD RXD GND

[Checking LED Indicator]

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

LED	Status	Description
	ON	Power supply is connected and running
PWR/		normally
P1/P2	OFF	Power supply is disconnected and
		running abnormally.
ALM	ON	Power supply and port link alarm
	OFF	Power supply and port link without
		alarm
RUN	ON	The device is powering on or
		abnormal.
	OFF	The device is powered off or abnormal.
	Blinking	Blink once per second, the device is
		running well.
Link/	ON	Ethernet port connection is active.
ACT	Blinking	Data transmitted
(1-16)	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.

Attp://192.168.1.254/

Step 3 Enter device's username and password in the login window as shown below.

The server 192.168.1.254 is asking for your user name and password. The server reports that it is from Communication Device. Warning: Your user name and password will be sent using basic authentication on a connection that isn't secure. admin eccee Remember my credentials OK Cancel	Windows Security	×	
authentication on a connection that isn't secure.			
Remember my credentials			
OK Cancel			
	ОКСС	ancel	

Step 4 Click "OK" button to login to the WEB interface of the device.



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	
	10/100Base-T(X) self-adapting
	RJ45 port, full/half duplex
100M copper port	self-adaption or specified
	operating mode, support
	MDI/MDI-X self-adaption
100M fiber part	100Base-FX, optional SC/ST/FC
100M fiber port	interface

	CLL command management part
Console port	CLI command management port
	(RS-232), RJ45
	Support 1 relay alarm
Alarm interface	information output, the current
	loading capacity is 1A@24VDC
	Power indicator, running
Indicator	indicator, interface indicator and
	alarm indicator
Exchange attributes	
Backplane bandwidth	12.8G
Packet buffer size	3Mbit
MAC table size	8К
Power supply	
	12~48VDC or
	100~240VAC/VDC
land a surger surger.	DC power supply supports dual
Input power supply	power supply redundancy and
	built-in overcurrent 1.2A
	protection
	4 pins 7.62mm pitch terminal
Access terminal	blocks
Consumption	
No-load	≤10.30W@24VDC
Full-load	≤12.50W@24VDC
Environmental Limits	
Working temperature	-40~75 ℃
Storage temperature	-40~85 ℃
Working humidity	5%~95% (no condensation)
Protection grade	IP40 (metal shell)