3onedata

IES6000-PN-8T2GT-2P(12-48VDC) Managed PROFINET 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 ×1
- 2. Warranty card
- 3. Certificate

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

[Product Overview]

This product is layer 2 managed wall-mounted PROFINETindustrialEthernetswitch.Themodel:IES6000-PN-8T2GT-2P(12-48VDC) (8 100M M12 + 2 GigabitM12, 12~48VDC redundant power supply input).

[Panel Design]

> Front view



- 1. Running indicator (RUN)
- 2. Interface indicator (E1-E8, G1-G2)
- 3. Power supply indicator PWR
- 4. Alarm indicator (ALM)
- 5. 10/100Base-T(X) 100M M12 (E1-E8)
- 6. 10/100/1000Base-T(X) Gigabit M12 (G9-G10)
- 7. ID column
- 8. Power input M12 interface (POWER)
- 9. CONSOLE port
- 10. Grounding screw (FE)
- 11. Wall-mounting location hole

[Mounting Dimension]

Unit: mm



- 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.

[Wall-mounted Device Mounting]

- Step 1 On the wall of device mounting, place the device on the wall for reference or refer to the mounting dimension to mark two screw positions.
- Step 2 Hang the device on the labeled wall, align the bolt to the labeled position, then fix them with a certain gap.
- Step 3 Adjust the device to the proper position, then tighten the screws, and the installation is finished.



[Wall-mounted Device Disassembling]

- Step 1 Power off the device.
- Step 2 Hold the device steady and unscrew the screw on the wall.
- Step 3 Take out the device, disassembling ends.

Notice before power on:

- Power ON operation: First insert the power supply terminal block into the device power supply interface, then plug the power supply plug contact 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]



The device provides 1 M12 L-Code 5-Pin pin-type (male) connector, it supports two independent DC power supply systems, PWR1 and PWR2, when one of the power supplies fails,

it could switch to another one immediately to ensure that the

device power supply is not interrupted. The power supply supports anti-reverse connection, which can protect the device from damage but the device cannot be powered on. Power supply range: 12~48VDC. The pin definitions of power supply are shown in the following table.

Pin No.	1	2	3	4	FE
Definition	V1+	V1-	V2-	V2+	Shell Ground

[Console Port Connection]



1 2 The product provides 1 program debugging port based on RS-232 serial port which can conduct

device CLI command management by connecting to

PC. The interface adopts M12 D-Coded 4-Pin slot (female).

The pin definitions of M12 are shown as follows:

Pin No.	1	2	3	4
Definition	ТΧ	RX	NC	GND

[Communication Interface Connection] 100M M12 Interface



This device provides 8 10/100Base-T(X) interface, the interface type is M12 D-Code 4-Pin slot (female). The definitions of M12 pin are as follows:

Pin No.	Definition	Description
1	X0_P	Positive bi-directional data of
		100M Ethernet group 1
2	X1_P	Positive bi-directional data of
		100M Ethernet group 2
3	X0_N	Negative bi-directional data of
		100M Ethernet group 1
4	X1_N	Negative bi-directional data of
		100M Ethernet group 2

Gigabit M12 interface



This device provides 2 10/100/1000Base-T(X) interfaces, the interface type is M12 X-Coded 8-Pin slot (female). The definitions of M12 pin are as follows:

Pin No.	Definition	Description
1	GE0+	Positive bi-directional data o

		Gigabit Ethernet group 1
2	GE0-	Negative bi-directional data of
		Gigabit Ethernet group 1
3	GE1+	Positive bi-directional data of
		Gigabit Ethernet group 2
4	GE1-	Negative bi-directional data of
		Gigabit Ethernet group 2
5	GE3+	Positive bi-directional data of
		Gigabit Ethernet group 4
6	GE3-	Negative bi-directional data of
		Gigabit Ethernet group 4
7	GE2-	Negative bi-directional data of
		Gigabit Ethernet group 3
8	GE2+	Positive bi-directional data of
		Gigabit Ethernet group 3

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 helow.

LED	Indicate	Description	
RUN	Blinking	The device is running normally	
	OFF	Device is not started or device is abnormal	
ALM	ON	Power, port or other configuration event has alarms	
	OFF	Power, port and other configuration event has no alarm.	
PWR	ON	Power supply is running normally	
	OFF	Device is not powered on or device is abnormal	
E1-E8, G1-G2	ON	Ethernet port has established a valid network connection	
	Blinking	Ethernet port is in an active network status	
	OFF	Ethernet port has not established a valid network connection.	

【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.

Username	admin
Password	••••••
	Login

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

Note:

The device has no IP address by default, so you can search and configure the IP address of the device through PROFINET configuration software such as STEP 7 and TIA Portal. Or use the command line to configure the IP address of the device through the CONSOLE port. If the IP address of the device is configured to 192.168.1.254, the command line operation is as follows:

User: admin

Password: admin

Switch> enable

Switch# configure terminal

Switch(config)# ip address 192.168.1.254/24

- 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 (including IP address) 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]

Banal	
100M M12	10/100Base-T(X), M12(Female),
	4-Pin D-Code, Automatic Flow
	Control, Full/half Duplex Mode,
	MDI/MDI-X Autotunning
Gigabit M12	10/100/1000Base-T(X),
	M12(Female), 8-Pin X-Coded,
	Automatic Flow Control, Full/half
	Duplex Mode, MDI/MDI-X
	Autotunning;
CONSOLE port	CLI command line management
	port (RS-232), M12(Female),
	4-Pin D-Code
Indicator	RUN indicator, ALM indicator,
	power supply indicator, interface
	indicator
Switch Property	
Backplane bandwidth	20G
Packet buffer size	2Mbit
MAC address table	16K
Power Supply	
Input power supply	12~48VDC dual power supply
	redundancy, support
	anti-reverse connection
Access terminal block	M12 (Male), 5-Pin L-Code
Power Consumption	

No-load	4.7W@48VDC
Full load	6.8W@48VDC
Working Environment	
Working temperature	-40~75°C
Storage temperature	-40~85°C
Working humidity	5% \sim 95% (no condensation)
Protection grade	IP67(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.