PROmesh B12 PoE



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[Package Checklist]

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

- 1. Industrial Ethernet switch
- 2. Quick installation guide
- 3. DIN-Rail mounting attachment
- 4. CD

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

[Product Overview]

PROmesh B12 PoE (8 Gigabit PoE copper ports + 2 Gigabit SFP + 2 2.5G SFP, 24VDC redundant power supply, 120W PoE power consumption)

[Panel Design]

> Top view, bottom view and rear view



Terminal blocks for relay alarm output RELAY

10/100/1000Base-T(X) Gigabit PoE copper port (G1-G8)

1.

3.

4.

5.

6.

7.

8.

9.

10.

12.

13.

18.

19.

20.

DIP switch

Console port

Grounding screw

Power indicator

DIN-Rail mounting kit

Alarm indicator (ALM)

Running indicator (RUN)

Ethernet port indicator (G1-G12)

Wall-mounting location hole

100/1000Base-X SFP slot (G11-G12)

100/1000/2.5GBase-X, SFP slot(G9-G10)

(Mounting Dimension) Unit: mm



Notice 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]

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 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.

[DC Power Supply Connection]



The DC device of the series provides 6-pin 5.08mm pitch power supply terminal blocks and power supply occupies the left 4 pins. It supports two independent DC power supply systems, P1 and P2. The series of device supports redundant power

supply, two power supply can work at the same time. The device will still run non-stop when one power supply fails. The pin definitions of power supply are shown in the left figure. This series supports 3 different power supply ranges. Please notice the corresponding power supply type of the device in case it damages the device.

24VDC redundant power supply

The power supply support anti-reverse connection, which cannot power the device but won't damage it. The definitions of power pin are shown in the figure above, and the power input is 24VDC.

[Relay Connection]



This device provides 6-pin 5.08mm pitch terminal blocks, relay occupies the right 2 pins. Relay terminals are

a set of normally open contacts of the device alarm relay. They are open circuit in the state of normal non alarm, closed when any alarm information occurs. For example, they are closed when powered off, and send out alarm. The product supports 1 relay alarm information output that can output DC power supply alarm information 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.

[DIP Switch Settings]



The series of devices provide 4-bits DIP switch for function setting, where "ON" is enable valid terminal.

The definitions of DIP switch are as follows:

No	Definition	Operation	
1		Set the DIP switch to ON, the	
	Restore Factory	device will root automatically	
	Settings	and restore to factory settings,	
		then turn off the DIP switch.	
2-4	Reserved	_	

[Console Port Connection]



The device 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

[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	Power supply is running		
		normally		
	OFF	Power supply is disconnected		
		or running abnormally		
	ON	Power supply or port link has		
		alarm		
	OFF	Power supply and port link have		
		no alarm		
	ON	Device is not started or		
		abnormal		
RUN	Blinking	Blinking 1 time per second,		
Ron		system is running normally		
	OFF	The device is powered off or the		
		device is abnormal.		
	ON	Ethernet port has established a		
		valid network connection		
LINK	Blinking	Ethernet port is in an active		
(G1-G12)	Diriking	network status		
(01 012)	OFF	Ethernet port has not		
		established valid network		
		connection		
	ON	POE port is powering other PD		
PoE		devices normally		
(G1-G8)	OFF	POE is disabled or		
		disconnected		

[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: https://192.168.1.254
- Step 3 Enter device's username and password in the login window as shown below.

Indicator

Switch Property

Packet buffer size

Power Supply

MAC Address Table

Backplane bandwidth

Username	admin		
Password	•••••		
Login			

Click the "login" button. Change the initial password Step 4 when logging into the device for the first time, after that, relog into the device to access the device's Web interface.

= Note:

- The default IP address of the device is "192.168.1.254".
- The default user name and password of the device are "admin".
- When logging in to the device for the first time, the system will prompt to change the initial password of the default user; The length of the new password string must be greater than or equal to 8 and be composed of two or more kinds of uppercase letters, lowercase letters, numbers and special characters.
- If the user name or password is lost, the factory settings . can be restored through management software of the device; or make a physical loopback between Port 1 and Port 2 within the first minute when the switch restarts.
- Please refer to user manual for specific configuration

method of logg configurations al	ging in to WEB interface and other bout network management function.	Access terminal block	6-pin 5.08mm pitch terminal blocks, power supply occupies 4
[Specification]			24VDC PoE opti rovoroo
Panel			24VDC POE, anu-reverse
Gigabit PoE copper port	10/100/1000Base-T(X), RJ45, Automatic Flow Control, Full/Half Duplex Mode, MDI/MDI-X Autotunning. PoE power supply	Power input	built-in 5A overcurrent protection
		Power Consumption	
		No-load	≤5.76W@24VDC
pin: V+, V+, V-, V- correspond to pin 1, 2, 3, 6. The maximum output power of single port: 30W		Full-load	≤ 12W@24VDC (without PoE load) ≤ 132W@24VDC (with 120W PoE
Gigabit copper port	10/100/1000Base-T(X), RJ45, Automatic Flow Control, Full/Half		load)
	Autotunaiaa	Working Environment	
		Working temperature	-40~75°C
Gigabit SFP slot	100/1000 Base-X self-adaption	Storage temperature	-40~85°C
	100/1000/2.5GBase-X self- adaption or forced mode. SFP slot	Working humidity	5% \sim 95% (no condensation)
2.5G SFP SIOI		Protection grade	IP40 (metal shell)
Console port	CLI command management port (RS-232), RJ45		
Alarm interface	6-pin 5.08mm pitch terminal blocks, alarm occupies the right 2 pins, supports 1 relay alarm information output, and the current load capacity is 1A@30VDC or 0.3A@125VAC		
Indicator	Running indicator alarm indicator		

power supply indicator, interface

indicator, PoE indicator

30G

4Mbit

8K

