3onedata
Make network communication more reliable

MODEL3012 Series
Gigabit Ethernet Media Converter
Quick Installation Guide

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【Packet List】

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

1 Media Converter 2 Certificate

3 Wall Mounting lug x 2 4 Warranty card

5 5VDC power adapter or 220VAC power line (not for -48VDC)

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 Gigabit Ethernet Media Converters. For convenience, the products of this series adopt the following number on the left in this guide, please affirm the number of your product.

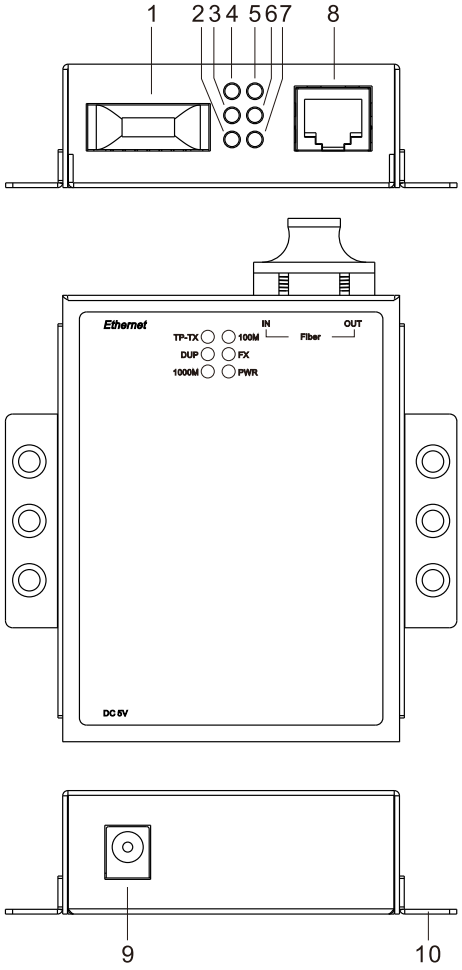
Model I MODEL3012-5VDC (1 Gigabit copper port + 1 Gigabit fiber port, external 5VDC power supply)

Model II MODEL3012-220VAC (1 Gigabit copper port + 1 Gigabit fiber port, built-in 220VAC/DC power supply)

Model III MODEL3012-48VDC (1 Gigabit copper port + 1 Gigabit fiber port, built-in -48VDC power supply)

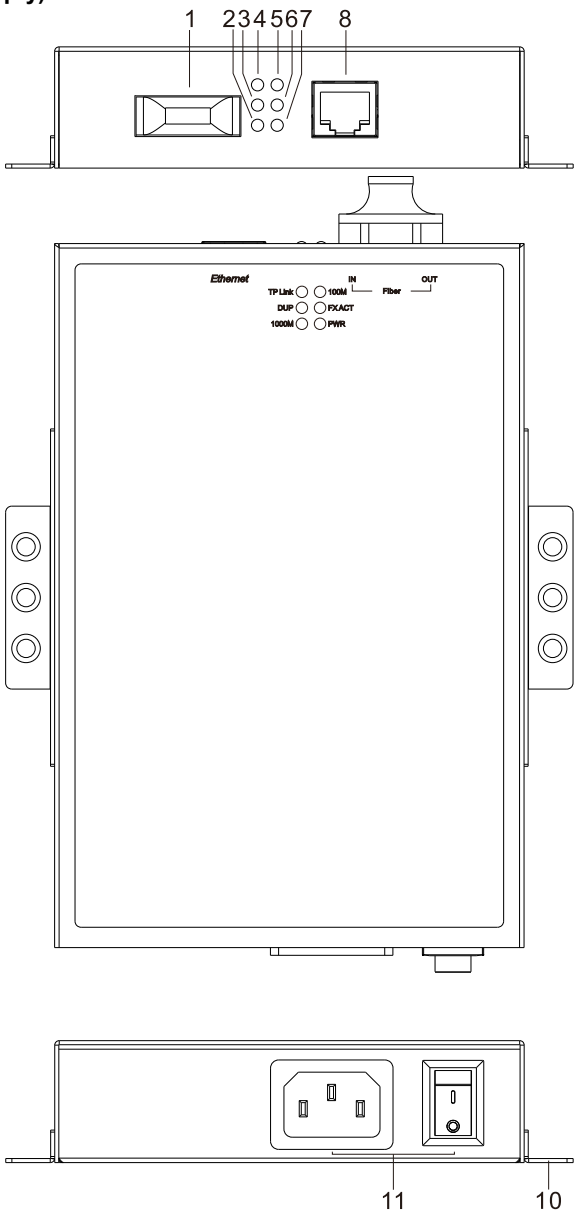
【Panel Design】

➢ **Rear view, Top view and Front view (external power supply)**

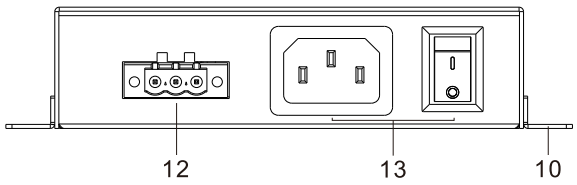


Model I

➢ **Rear view, Top view and Front view (built-in power supply)**



Model II



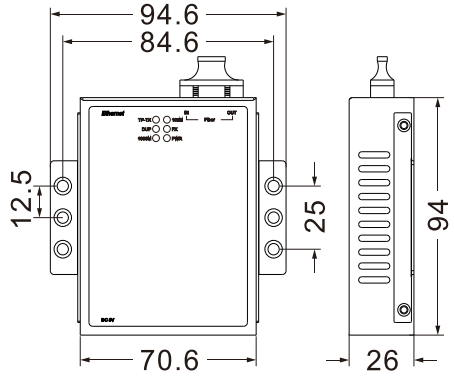
Model III

1. Gigabit Ethernet fiber port
2. Power supply indicator PWR
3. Gigabit Ethernet fiber port indicator (FX / FX ACT)
4. Ethernet copper port 100M speed indicator (100M)
5. 10M/100M/Gigabit Ethernet copper port indicator (TP-TX / TP Link)
6. Ethernet copper port duplex indicator (DUP)
7. Ethernet copper port Gigabit speed indicator (1000M)
8. 10M/100M/Gigabit Ethernet copper port
9. 5VDC Terminal block for power input
10. Wall Mounting lug
11. 220VAC/DC power input outlet and switch
12. Terminal block of -48VDC power supply input
13. Reserved

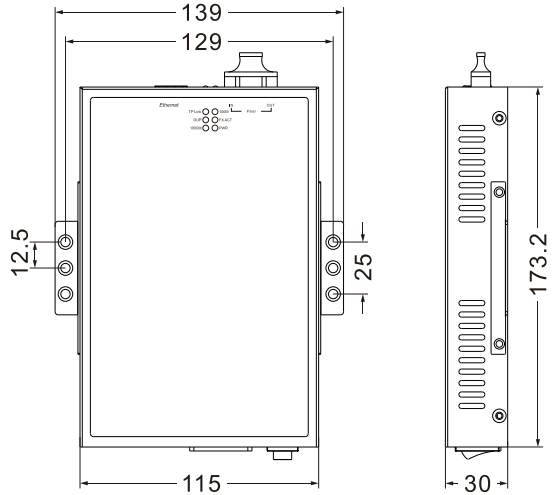
【Mounting Dimension】

Unit: mm

➢ **Model I**



➢ **Model II** **Model III**



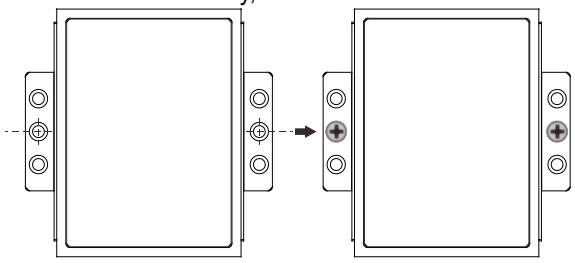
Note Before Mounting:

- 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.

【Wall-mounted Device Mounting】

Step 1 Place the device on the wall as reference or reference installation dimension; mark 2 bolt positions on the wall.

Step 2 Hang the device on the labeled wall; align the bolt to the labeled position, then screw the bolt to enhance stability, installation ends.



【Wall-mounted Device Disassembling】

Step 1 Device power off.

Step 2 Hold the equipment steady and unscrew the screw on the wall

Step 3 Take out the device, disassembling ends.

Note 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 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.

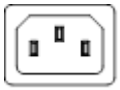
【Power Supply Connection】

➢ **5VDC power supply**



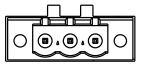
Model I provides 1 DC round head for power supply input and support 5VDC power supply.

➢ **220VAC/DC power supply**



Model II provides 1 AC outlet with switch for power supply input and support 220VAC/DC power supply.

➢ **-48VDC power supply**



Model III provides 3 5.08mm pitch terminal block for power input, supports -48DC power supply. The pin definition as follows:

PIN	1	2	3
PIN definition	FG	-48VDC+	-48VDC-

【Checking LED Indicator】

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

LED	Indicate	Description
PWR	ON	PWR is connected and running normally

LED	Indicate	Description
	OFF	PWR is disconnected and running abnormally
FX / FX ACT	ON	Fiber port has established valid network connection
	OFF	Fiber port hasn't established valid network connection
100M/ 1000M	ON	The copper port is in 100M /1000M speed mode
	OFF	The copper port is in 10M speed mode
TP-TX / TP Link	ON	Copper port has established an active network connection.
	Blinking	Copper port is in a network activity state.
	OFF	Copper port has not established an active network connection.
DUP	Blinking	The copper port is in full duplex mode
	OFF	The copper port is in half duplex mode

【Specification】

Panel	
Gigabit fiber port	1000Base-X, optional SC/ST/FC fiber port
1000 Base-T(X)	10/100/1000 Base-T(X) self-adapting RJ45 port, half/full duplex self-adaption support MDI/MDI-X self-adaption
Indicator	Power supply indicator, fiber port indicator, copper port/speed/duplex indicator
Power supply	
Model I	External power supply: 5VDC, DC round head
Model II	Built-in power supply: 220VAC/DC, AC outlet with switch
Model III	Built-in power supply: -48VDC 3-pin 5.08mm pitch terminal blocks
Power consumption	
Full-load	≤4W
Working environment	
Working temperature	-10～60℃
Storage temperature	-20～70℃
Working humidity	5%～95% (no condensation)