Trouble shooting

When the device encountered with troubles, it can be solved by the methods below:
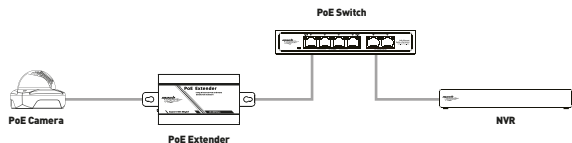
1. Make sure the device is installed correctly referring to the requirements;

2. Make sure RJ45 cable is good contacted without open circuit; the cable design complies with EIA/TIA568A or 568B international standards.

3. Each PoE port can provides max 15W to PoE devices, so please don't connect with the PoE device which is more than 15W.

4. Replace the trouble device with a normal working NW-PE100M to check if the device is damaged.

5. If all the above methods still don't work, please contact with manufacturer directly.

PoE Extender

Long Distance PoE and
Extension Solution

USER MANUAL   NW-PE100M

Overview

PoE extender can extend power and ethernet signals to 100m over UTP cable to connect PD devices compatible with IEEE802.3 af/at (such as IP camera) and supply power to PD devices compatible with IEEE802.3af/at. This PoE extender is widely used in video surveillance and office net cabling system. Max 3 pieces could be cascaded and transmit max up to 400 meter with PoE switch.

Typical applications diagram is as below:

Features

Provide two ports : one PoE input and one PoE output
Bandwidth: 10/100Mbps
Input Voltage: 48-57V
Complies with IEEE802.3 10BASE-T, IEEE802.3u, 100BASE-TX/100BASE-FX, IEEE802.3az, IEEE802.3af
Easy to install and operate on walls or on the desktops.
Support overheating and short circuit protection as well as over-voltage and over-load protection.

Technical Specification

Port	One RJ45 port for PoE input, one RJ45 port for PoE output
Power Supply Mode	Powered via PoE input port, support Mid-Span and End-Span
Transmission Media	Cat5e/6 standard UTP cable
Output Wattage	15.4w(max)
Bandwidth	10/100Mbps
Standard	IEEE802.3 10BASE-T, IEEE802.3u 100BASE-TX/100BASE-FX, IEEE802.3az, IEEE802.3af
Status Indicator	PoE Indicator, Link/ActIndicator
Dimensions (mm)	83.0L x 51.5W x 24.0H
Weight	88.6g
Operating Environment	Working Temperature: -10°C – 55°C
	Storage Temperature: -40°C – 85°C
	Humidity (non-congeal): 5% – 95%

Note: If any changes with product specification, forgive without prior notice

1. As transmission distance has certain relation with the cable, so you are suggested to use standard cat5e/6 cable for longest distance needed.

Installation

Before installation, please check the following equipment and accessories, if there are any missing, please contact with your supplier.
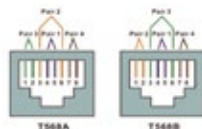
- n°1 NW-PE100M
- n°1 User manual

1. Before installation, please turn off the power of all signal sources and the monitor in case of the damage to transmission device.

2. Using ONE network cableto connect with PoE input port and switch, as well as powered devices such as IP camera via the other port.

3. Check whether installation is correct and the device undamaged. Before power on NW-PE100M, make sure that all connections are reliable.

4. Confirm all network devices are powered and can work normally.

Making methods of RJ45 connector

Required tools: wire crimpers, network cable tester.

The wire sequence of RJ45l connector must complies with international standard of EIA/TIA 568A or EIA/TIA 568B.

1. Strip about 2cm's of insulating jacket to let 4 pairs UTP can be seen.

2. Separate 4 pairs UTP cable, and try to straighten each pair.

3. Arrange 8 cables with correct line sequence of EIA/TIA 568A or EIA/TIA 568B.

4. Cut thread residue and leave 1.5cm wire which exposed outside the insulating layer, and ensure 8 wires are straight and neat.

5. Put 8 wires in RJ 45 connector, then press with wire crimpers.

6. Repeat above five steps , make the other side of UTP cable; Then using the cable tester to test whether the cat5e/6 works normally.

Note:
Ports of this device support Auto MDI/MDIX, so the different wire sequence at two sides of the cable is allowed when using RJ45 port for transmission.

	1	2	3	4	5	6	7	8
T568A	white greeen	greeen	white orange	blue	white blue	orange	white brown	brown
T568B	white orange	orange	white green	blue	white blue	green	white brown	brown