

PoE Repeater – 1x In, 2x Out

GRMPOE102



Quick Start Guide

Please read these instructions carefully before operating the unit and keep for further reference. All the examples and pictures used here are for reference only. The contents of this manual are subject to change without notice.

The Genie GRMPOE102 is a PoE ethernet repeater which uses advanced network cable drive and power supply technology to extend 100m ethernet signal to 200m, greatly extending the transmission distance and providing PoE at the same time.

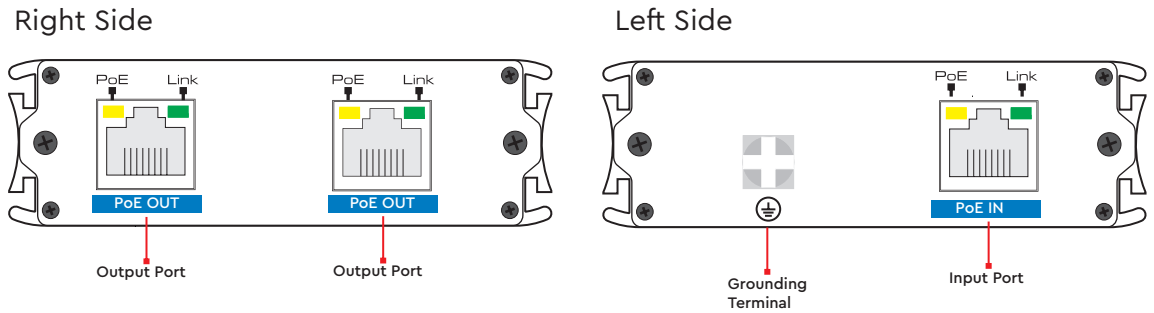
Features

- 3x 10/100Mbps Ethernet ports, one PoE input port, two PoE output ports
- Meets the requirements of local monitor, long distance transmission and PoE power supply
- Wall and desktop easy install
- PoE power supply is compatible with End-Span and Mid-Span
- Circuit isolation protection, effectively improves lightning protection
- Plug and play, no setting required
- Uses advanced network cable drive technology and is able to reach a distance up to 200m

Specifications

Power	Power Supply	PoE Power Supply
	Consumption	<3W
Ethernet Port	Transmission Distance	100m (See Table on page 3)
	Transmission Medium	Cat5e/6
	PoE Protocol	Supports IEEE802.3af, IEEE802.3at Protocol
	PoE Mode	Compatible with End-Span and Mid-Span
Network Switch	Network Standard	IEEE802.3 10BASE-T, IEEE802.3u 100BASE-TX
	Network Delay	<20us
Others	LED Status Indicator	PoE IN Port and PoE OUT Port: RJ45 yellow light indicates PoE status. Green light indicates data exchange
	ESD Protection	1a Contact Discharge Level 3 1b Air Discharge Level 3 Per: IEC61000-4-2
	Communication Lightning Protection	Per: IEC61000-4-5 Level 3
	Working Temperature	-40°C~75°C
	Storage Temperature	-40°C~85°C
	Humidity (Non-Condensing)	0~95%
	Material	Aluminum
	Dimensions	103 × 82 × 25 mm
	Weight	195g

Board Diagram



LED Indicator

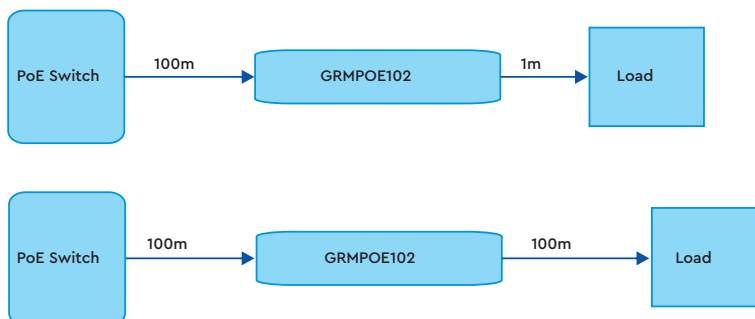
Device must be connected with lightning protection grounding; otherwise protection level will reduce. Please use above No.20 wire to connect the grounding terminal.

	PoE IN RJ45		PoE OUT RJ45	
LED Indicator	Yellow	Green	Yellow	Green
Blink	-	Data connecting	-	Data connecting
On	PoE input working	Cable connecting	PoE output working	Cable connecting

Transmission Distance

Relationship between Single Port power and distance, power divides equally when dual ports work.

PoE IN Side Distance	100m	100m
PoE OUT Side Distance	1m	100m
Max. Load Power Supply	22.5W	20W



The test data in table above gained through the test method in picture above.

Installation Steps

Please check the following items before installation.

If anything is missing, please contact dealer.

- 1x GRMPOE102
- 2x Mounting Plates
- 1x User Manual

Please follow the steps as below:

1. Please turn off the signal source and the device's power, installation with power on may damage the device.
2. Check if the network cable and other transmission line that will be used is occupied by other device
3. Use a network cable to connect PoE Ethernet repeater's PoE IN port with PoE Ethernet switch.
4. Use 2 network cables to connect 2 PoE IP cameras with PoE Ethernet repeater's PoE output port.
5. Check if the installation is correct and device is good, make sure all the connection is reliable and power up the system.
6. Make sure the network is normal.

Troubleshoot

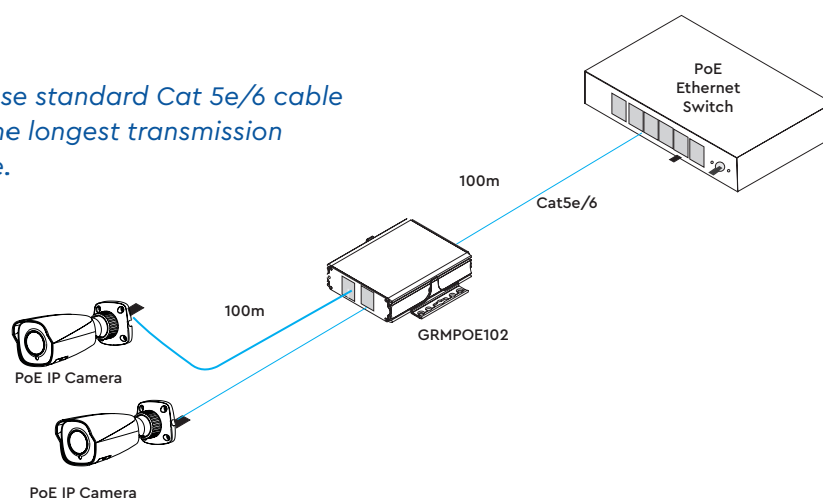
Please find the following solution when the device doesn't work:

- Please make sure you have followed the instruction to install the device.
- Please confirm if the RJ45 cable order is in accordance with the EIA/TIA568A or 568B industry standards.
- The maximum transmission distance depends on the signal source and cable quality, please do not exceed the maximum transmission distance.
- Please replace a failure device with a normal one to check if the device is broken.
- If the problem still exists, please contact your distributor.

Application

Note:

Please use standard Cat 5e/6 cable to get the longest transmission distance.



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