PoE Injector RNWA-PoE-100

User Manual

FCC STATEMENT

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

➢   Reorient or relocate the receiving antenna.

➢   Increase the separation between the equipment and receiver.

➢   Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

➢   Consult the dealer or an experienced radio/ TV technician for help.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

1) This device may not cause harmful interference.

2) This device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

CE Mark Warning

This is a class B product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.

Table of Content

Chapter 1

Chapter 1 Overview

Thank you for choosing the RNWA-PoE-100 PoE Injector. The Power over Ethernet (PoE*) Injector is able to supply steady power to Powered Device (PD*) or PoE Splitter over the Ethernet cable. The Ethernet equipment can work as a Power Sourcing Equipment (PSE*) with the help of the RNWA-PoE-100 connection.

PoE technology allows the existing Ethernet infrastructure to transmit electrical power, along with data, to remote IP endpoints over the Ethernet cables, which can greatly save the cost of the external power cables. Your network can benefit from PoE technology for it will ensure the normal working status of your network while keep the existing Ethernet infrastructure secure.

*PoE: This technology describes a system to transmit electrical power, along with data, to remote devices over standard twisted-pair cable in an Ethernet network.

*PD: A device powered by a PSE and thus consumes energy. Examples include powering IP telephones, wireless LAN access points, network cameras, network hubs, embedded computers etc.

*PSE: A device (switch or hub for instance) that will provide power in a PoE setup.

1.1 Package Content

Before getting started, please verify that your package includes the following items:

➢   Rosewill RNWA-PoE-100 PoE Injector

➢   One Power Adapter

➢   One Ethernet (CAT5 UTP) Cable

➢   This User Guide

Note: <u>Please make sure that the package contains the above items. If any of the listed items are damaged or missing, please contact with your distributor.</u>

1.2 Features

➢ Complies with IEEE 802.3, IEEE 802.3u, IEEE 802.3af standards

➢ Compatible with PoE compliant PDs and PoE Splitters

➢ Transmits electrical power along with data in one single cable

➢ External 48V DC power supply

➢ Supports Plug-and-Play for the devices, without any configuration

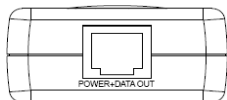➢ Extended Distance up to 100 meters for power and data

1.3 Product Specification

Normal		
Standards		IEEE 802.3, IEEE 802.3u, IEEE 802.3af
Ports	PoE Port	100BASE-TX / 10BASE-T dual purpose port
	LAN Port	
Cabling Type		RJ45 CAT 5 UTP cable
LED		PWR
Safety & Emissions		FCC, CE

Environmental and Physical	
Operating Temp	0℃~40℃ (32℉~104℉)
Storage Temp	-40℃~70℃ (-40℉~158℉)
Operating Humidity	10%~90% RH, Non-condensing
Storage Humidity	5%~90% RH, Non-condensing

4

Chapter 2
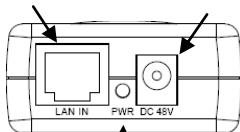
Chapter 2 External Component

2.1 Hardware Diagram

POWER+DATA OUT: Connect to the PD or PoE Splitter with a CAT5 UTP cable.

LAN IN: Connect to a network device (such as a Switch or Router) with CAT5 UTP cable.

DC 48V: Connect to the provided power adapter which can supply steady power of 48V DC.

PWR: Power LED, a steady green light indicates that the PoE system has detected the PD or PoE Splitter and the power adapter is working properly.

Chapter 3

Chapter 3 Connecting the PoE Injector

You can use RNWA-PoE-100 PoE Injector with PD or PoE Splitter to expand your network to where there are no power lines or outlets, where you wish to fix devices such as APs, IP Cameras or IP Phones, etc.

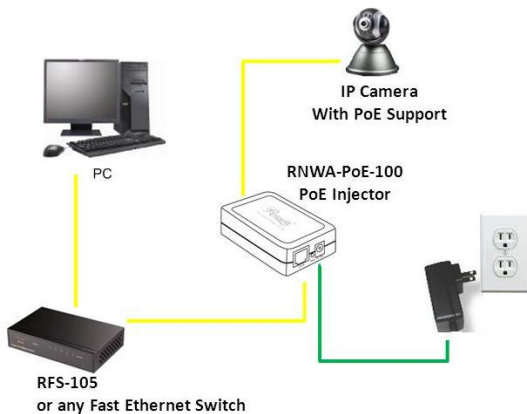The following steps will tell you how to connect the PoE Injector correctly.

1.   Use a CAT5 UTP cable to connect port of Ethernet device (such as a switch, hub or router) to the **LAN IN** port.

2.   Please connect the power adapter properly to a power socket with provided power cable, and then connect the other end of the power adapter to the **DC 48V** port of the RNWA-PoE-100.

3.   Connect the **POWER+DATA OUT** port of the RNWA-PoE-100 to a PD or a PoE Splitter with CAT 5 UTP cable.

Now, the device can work normally with data and power.

Here are some setup examples for the PoE Injector:

●   PoE Injector with the devices that support PoE:

3.1 Wired Setup

IP Camera
With PoE Support

RNWA-PoE-100
PoE Injector

PC

RFS-105
or any Fast Ethernet Switch

3.2 Wireless Setup

Thank you for purchasing a quality Rosewill Product.

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and future support for your product.

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8

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