

# 100M PoE Injector Datasheet

## Overview

### Product Description

The 100M RAK PoE injector, model R012-4800500 is a device that allows you to combine power and network connectivity to your PoE enabled devices using the same Cat5/5e or Cat6 twisted pair cable. It is suitable to be used with WisGate Edge Series Gateways, WisGate Developer PoE-enabled Gateways, and WisHAT 9003 PoE Raspberry Pi Hat.

### Product Features

- Input: 100-240 V AC (50~60 Hz)
- Output: 48.0 V<sub>DC</sub> 0.5 A
- Overcurrent protection
- Supports 10/100 Mbps Ethernet

### Specifications

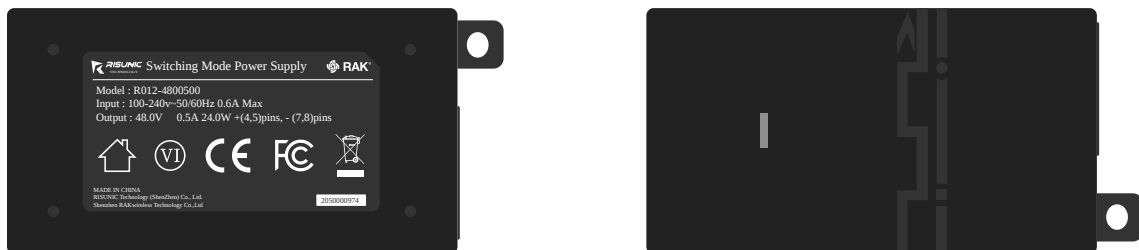


Figure 1: PoE Injector Front and Back View

## Hardware

### Interfaces

- 1x AC Input 100-240 V power input

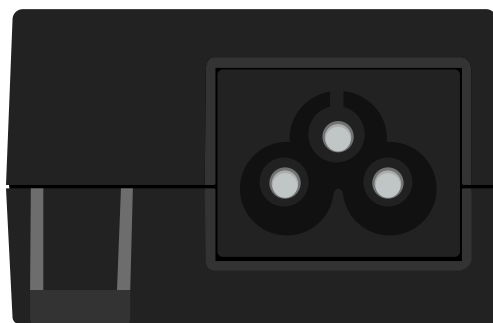
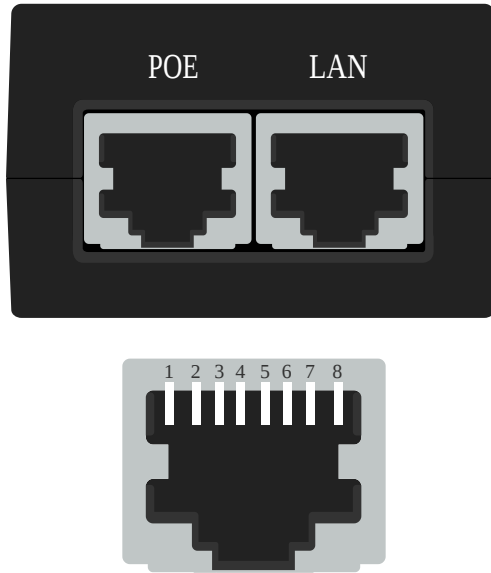


Figure 2: Power Input Interface



**Figure 3:** RJ45 PoE and LAN interface and pins

- 1x PoE RJ45 connection to the PoE enabled device

Pin	Designation
4 and 5	Positive
7 and 8	Negative
1, 2, 3, and 6	For data communication, directly connected to RJ45 LAN 1, 2, 3, and 6

- 1x LAN RJ45 connection to the network

Pin	Designation
1, 2, 3, and 6	For data communication, directly connected with RJ45 PoE 1, 2, 3, and 6
4, 5, 7, and 8	Not connected

## Electrical Requirements

Parameter	Value
Input	100-240 V <sub>AC</sub> (50-60 Hz)
Output	48.0 V <sub>DC</sub> 0.5 A
EMC standards	EN55032, EN55013, EN55024, EN55020, FCC Part 15 Class B, GB9254, GB17625.1, Tested according to EN61000-4-4, Tested according to EN61000-4-5

## Environmental requirements

<b>Feature</b>	<b>Specifications</b>
Type of use	Indoor environment
Operating temperature	0 to 40 °C
Storage temperature	-30 °C to 70 °C
Operating humidity	35~90% RH non-condensing
Storage humidity	10~95% RH non-condensing
Enclosure material	Plastic
Weight	98 g (±1 g)
Dimensions	92.5 x 47 x 29.8 mm (±1 mm)

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