LNK-INJ301

Hardened Gigabit High Power PoE Injector

This quick start guide describes how to install and use the Hardened Gigabit High Power PoE injector. It is the injector of choice for harsh environments.

Overview

The LNK-INJ301 product is a Hardened Gigabit High Power PoE Injector allows you to connect the IEEE 802.3 af/at PoE device such as camera and access point with a non PoE LAN switch within the distance of 100m. Both the Ethernet port (to switch) and the PoE Out port (to PoE device) support 10/100/1000Base-T and are compliant with IEEE 802.3ab. The PoE Out port is also compliant with IEEE 802.3 at.

General

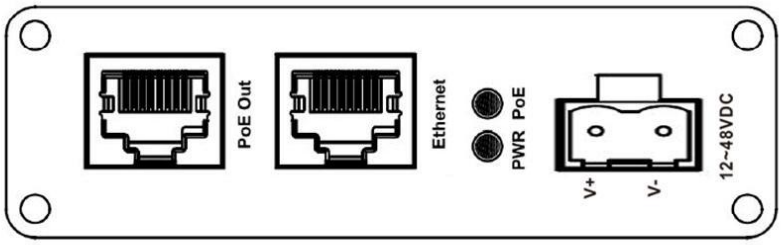
To ensure trouble free transportation and storage, all products must be thoroughly inspected, tested and well packed before delivery. Check the product upon receipt for any visible damage which may have been caused during shipping.

Package Content

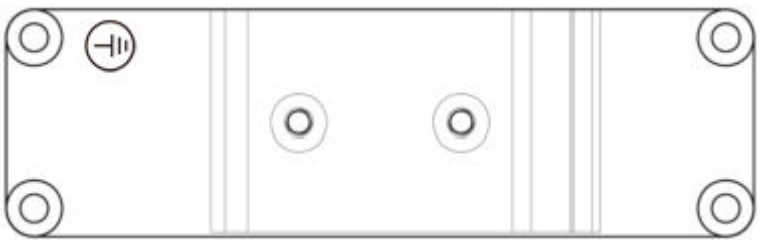
- LNK-INJ301 30W PoE Injector x 1
- Quick Start Guide x 1
- L-Shaped Wall Mount bracket x 1

Physical Description

Front Panel



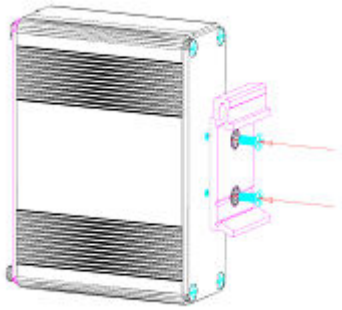
Rear Panel



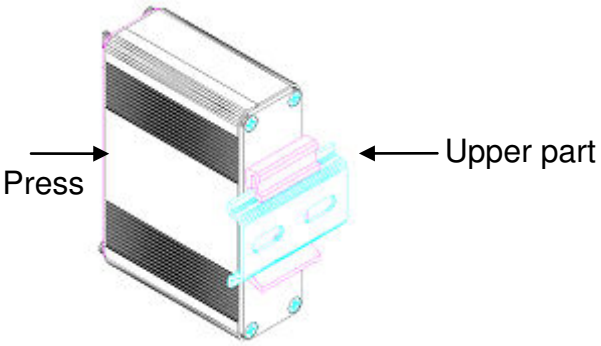
Installation

DIN Rail Installation

LNK-INJ301 can be installed on a DIN rail. Installation steps are as follows:



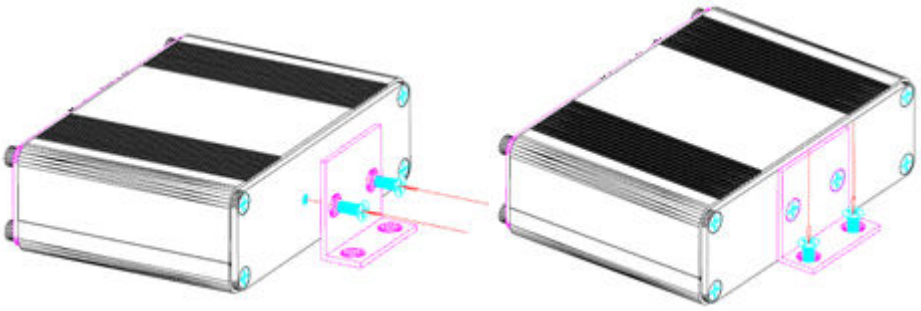
1. Tighten the screws to fix the DIN Rail plate



2. Lock the upper part of the DIN rail clip on the upper side of the track. Gently press it until the clip is securely locked on the track.

Wall Mount Installation

LNK-INJ301 also can be installed on a Wall Mount. Installation steps are as follows:



1. Tighten the screws to fix the Wall Mount plate

2. Mount the switch on the wall or on a flat surface with 2 screws piercing through the mounting holes to secure it in position.

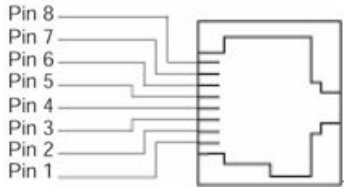
Setup

a) Connect the Ethernet port of the injector to a LAN switch with a network cable.
b) Connect the PoE Out port to the PoE device
c) After the device is powered on, the PWR indicator will all be on. If the indicators are not on, check the power supply connection.
d) After all cables are correctly connected, the indicators will be lit as per port status LEDs (page 3)..

Interface

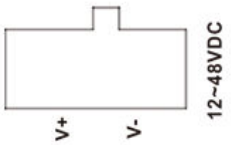
Ethernet/PoE Out Port

RJ-45 Pin Assignment



Pin	Ethernet	PoE Out
1	**TP0+**	**TP0+**
2	**TP0-**	**TP0-**
3	**TP1+**	**TP1+**
4	**TP2+**	**TP2+/VCC+**
5	**TP2-**	**TP2-/VCC+**
6	**TP1-**	**TP1-**
7	**TP3+**	**TP3+/VCC-**
8	**TP3-**	**TP3-/VCC-**

Power Connection：

Pin / Description	-	+	
Power Input	GND	+12-48V (DC)	

Cable Connections

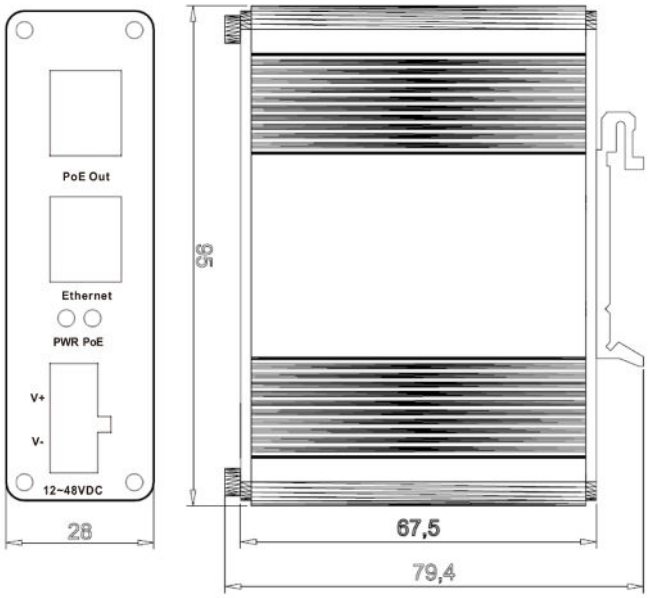
Signal Type	Cable Type	Connector
Ethernet	Cat. 5 or above	RJ45
Power supply	Power cable	2-pin Terminal Block

The Port Status LEDs

Indicators

Indicator	Color	Status	Description
PWR	Green	ON	Powered on
PoE	Green	ON	PoE is activated.
		Blinking	A Power Device (PD) is being detected.
		OFF	No device is connected or the connected device is not a PD.

Dimensions Drawing of the Product (Unit: mm)



DIN Rail

Functional Description

- **1 RJ-45 Gigabit Ethernet Data Input Port + 1 RJ-45 Gigabit with High Power PoE Ethernet Output Port (Data + Power)**
- **Supports IEEE 802.3at Power over Ethernet (PoE) Power Sourcing Equipment (PSE).**
- **Plug and Play**
- **Support 10/100/1000 Base-T**
- **Operating temperature: -40℃ to 75℃ (-40℉ to 167℉)**
- **Mini Case DIN-Rail installation**
- **Complies with EN55022 class A standard**
- **Extensive LED indicators for network diagnostics**