



Long Reach PoE Extender

Operation Manual

DA-LP1101R

DA-LP1101T

Powered by **Direct IP™**

Before Using the Product

FCC Compliance Statement

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

Note: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment.

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. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

User's Caution Statement

Caution: Any changes or modifications to the equipment not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

Product Overview

DA-LP1101R / DA-LP1101T can be used as Ethernet network device, either PoE repeater or PoE injector. When connected to DA-LP1101R and DA-LP1101T, supporting LRP(Long Reach PoE), it features an extended Ethernet and PoE(Power over Ethernet) networking up to 500 meters but not limited to the normal 100 meters.

Product Features

- Makes it possible to be used as PoE repeater or PoE injector if needed.
- Enables Ethernet communication and PoE connection in the distance of 500 meters in case of using LRP function
- Supports Plug & Play without setting up special IP addresses.

Accessories

The product consists of the following components.



Main unit



56V DC adapter &
AC power cable (Not
included, purchase
separately)

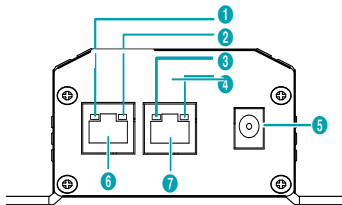


Operation
Manual

Overview

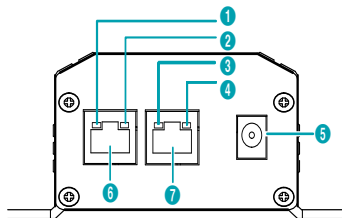
Front

DA-LP1101R



| | |
|---|----------------------|
| 1 | L/A LED (Orange) |
| 2 | PoE LED (Green) |
| 3 | L/A LED (Orange) |
| 4 | Power LED (Green) |
| 5 | Power Input |
| 6 | RJ 45 Port (LRP OUT) |
| 7 | RJ 45 Port (PoE IN) |

DA-LP1101T



| | |
|---|----------------------|
| 1 | L/A LED (Orange) |
| 2 | PoE LED (Green) |
| 3 | L/A LED (Orange) |
| 4 | Power LED (Green) |
| 5 | Power Input |
| 6 | RJ 45 Port (PoE OUT) |
| 7 | RJ 45 Port (LRP IN) |

LED Description

| | | |
|-----|---------------|---------------------------------|
| L/A | On | Link up |
| | Off | Link down |
| | Blink (2.5Hz) | Activity (with LRP function) |
| | Blink (10Hz) | Activity (without LRP function) |

| | | |
|-----|-------------|----------------------------|
| PoE | On | PoE on |
| | Off | PoE off |
| | Blink (1Hz) | Overload or short circuit |
| | Blink (4Hz) | Overvoltage or overheating |

* When connecting to the device using an adapter instead of PoE, it is normal operation to blink PoE LED.

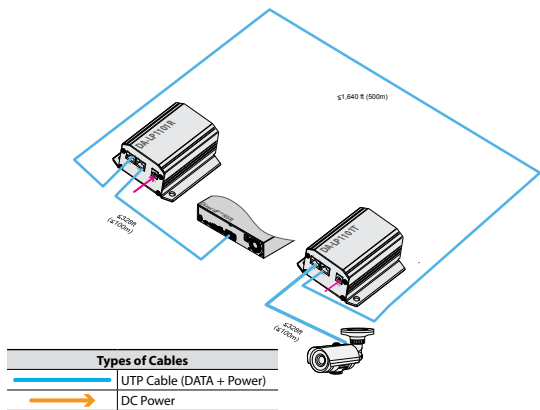
* Even if PoE LED is on, it may not link if the power is low. For more information, refer to the PoE Output Capability by Distance section in this manual.

Installation

<In Case of Using Long Reach PoE Function>

- 1 Connect Video In or Ext port of DirectIP™ NVR and PoE In of DA-LP1101R using a network cable.
- 2 Connect LRP Out port of DA-LP1101R and LRP In port of DA-LP1101T using a network cable.
- 3 Connect PoE Out port of DA-LP1101T and network port of DirectIP™ Camera using a network cable.
- 4 In case NVR has no PoE function or lacks of power, connect the adapter to DA-LP1101R or DA-LP1101T. (Purchase an adapter separately)
- 5 When DA-LP1101R and DA-LP1101T turns on, Power LED lights up. Also when the communication is initiated, L/A LED blinks.

DA-LP1101R / DA-LP1101T Installation Layout



<In Case of Not Using Long Reach PoE Function>

- 1 Connect Video In or Ext port of DirectIP™ NVR and PoE(LRP) In port of DA-LP1101R or DA-LP1101T using a network cable.
- 2 Connect PoE(LRP) OUT port of DA-LP1101R or DA-LP1101T and network port of DirectIP™ camera using a network cable.



If multiple 1000Mbps levels of the Repeater is needed, you can use multiple DA-LP1101R or DA-LP1101T. In order not to work LRP function, be careful not to connect LRP In and LRP Out.

- 3 In case NVR has no PoE function or lacks of power, connect the adapter to DA-LP1101R or DA-LP1101T. (Purchase an adapter separately)
- 4 When DA-LP1101R and DA-LP1101T turns on, Power LED lights up. Also when the communication is initiated, L/A LED blinks.

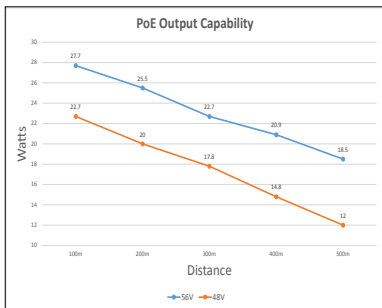
Specifications

| Model | DA-LP1101R | DA-LP1101T | Note |
|--------------------------------|--------------------|------------|--|
| RJ 45 | 10/100/1000Mbps | | |
| | 10/100Mbps | | In case of using LRP function |
| Power | PoE, 48~56V | | 56V is recommended (Separate purchases) |
| Maximum Data Transfer Distance | 100m | | |
| | 500m | | In case of using LRP function |
| PoE | 802.3at, Legacy** | | |
| Weight | 226g | | |
| Dimensions (W)X(D)X(H) | 102 x 34 x 96 (mm) | | |

** Legacy may be misinterpreted as PoE output to PoE input port. Do not connect PoE(LRP) output port to other equipment.

PoE Output Capability by Distance

In Case of Using Long Reach PoE Function



DA-LP1101T PoE Output Capability DA-LP1101R with 56V DC Adaptor

(DA-LP1101R with 48V DC Adaptor)

| Distance | PoE Output Capability* |
|----------|------------------------|
| 100m | 27.7W (22.7W) |
| 200m | 25.5W (20.0W) |
| 300m | 22.7W (17.8W) |
| 400m | 20.9W (14.8W) |
| 500m | 18.5W (12.0W) |

In Case of Not Using Long Reach PoE Function

DA-LP1101R/T PoE Output Capability with 56V DC Adaptor

| Distance | PoE Output Capability* |
|----------|------------------------|
| 100m | 31.7W |

DA-LP1101R/T PoE Output Capability with 48V DC Adaptor

| Distance | PoE Output Capability* |
|----------|------------------------|
| 100m | 26.2W |

* The value may change depending on the power, cable and PoE device you use.



IDIS Co., Ltd.

For more information, please visit at
www.idisglobal.com