

## PLR-2012 PoE Long Reach Extender



1-kilometer 10/100Mbps Ethernet PoE Extender

### Features

- **1-kilometer PoE and Data Extender Solution**  
Provides 802.3af/at PoE up to 1 kilometer for remote powered device, beyond 100 meters distance limitation.
- **Point-to-point PoE Long Reach Solution**  
PLR-2012-TX: 1-port PoE PD to 1-port PLR Injector  
PLR-2012-RX: 1-port PLR Extender to 1-port PoE PSE
- **7-segment Digital LED**  
Displays current PoE output and diagnostic ID with rich 7-segment digital LED on the front panel.
- **Dual Power Input Design**  
Supports PoE (IEEE 802.3af/at, 60W PoE++) or 54 ~ 57VDC power supply input under different environments.
- **2 Installation Methods**  
Supports DIN-rail or wall mounting installation, thereby making its usability more flexible.

### Description

Connection Technology Systems (CTS) PLR-2012 PoE long reach extender is the best solution that could extend your PoE up to 1km, and allows you to deploy surveillance IP cam or Wi-Fi AP to the location where power cannot be easily accessed.

CTS PLR-2012 is fully compliant with IEEE 802.3, 802.3u, 802.3af and 802.3at standards. It also allows you to retrieve power from either a PoE switch or a DC power supply, depending on the deployment environment, providing maximum flexibility.

The operation status can be monitored through a set of diagnostic LED indicators on the front panel. In addition, a 7-segment digital LED display will demonstrate the current output wattage and also codes for any abnormality that is taking place, making on-site technical support so much easier. Both the modules can be installed on a DIN-rail or onto a wall.

### Target Applications

- To solve transmission data and PoE distance issue.

## Specification

### Interface

- LRP Port (Type):  
1 x 10/100Mbps (RJ-45 /w long reach PoE)
- TP Port (Type):  
1 x 10/100Mbps (RJ-45 /w PoE)

### Power over Ethernet

- PLR-2012-TX:  
1 x 60W PoE++ Input  
(Compatible with 802.3af/at)
- PLR-2012-RX:  
1 x IEEE 802.3af/at Output

### Standards

- IEEE 802.3 10Base-T
- IEEE 802.3u 100Base-TX
- IEEE 802.3af Power over Ethernet
- IEEE 802.3at Power over Ethernet PLUS

### H/W Specification

- Auto-Cross Over for MDI/MDIX
- Auto-Negotiation
- Full/Half Duplex Mode Operation

### LED

- Link/Act, Speed, Status, Warning, Error,  
7-segment Digital Display

### Forward/Filter Rate

- 10M: 14,880/14,880pps
- 100M: 148,800/148,800pps

### Ethernet Feature

- DIP Switch  
Auto speed/Link speed/PSE mode

### Power Requirement

- DC Power Input: 54 ~ 57V DC
- PoE Input:  
IEEE 802.3af/at and 60W PoE++
- Power Consumption: 2.5W

### Environmental Condition

- Operation: 0°C ~ 60°C
- Storage Temperature: -20°C ~ 60°C
- Humidity: 5%~90%, Non-condensing

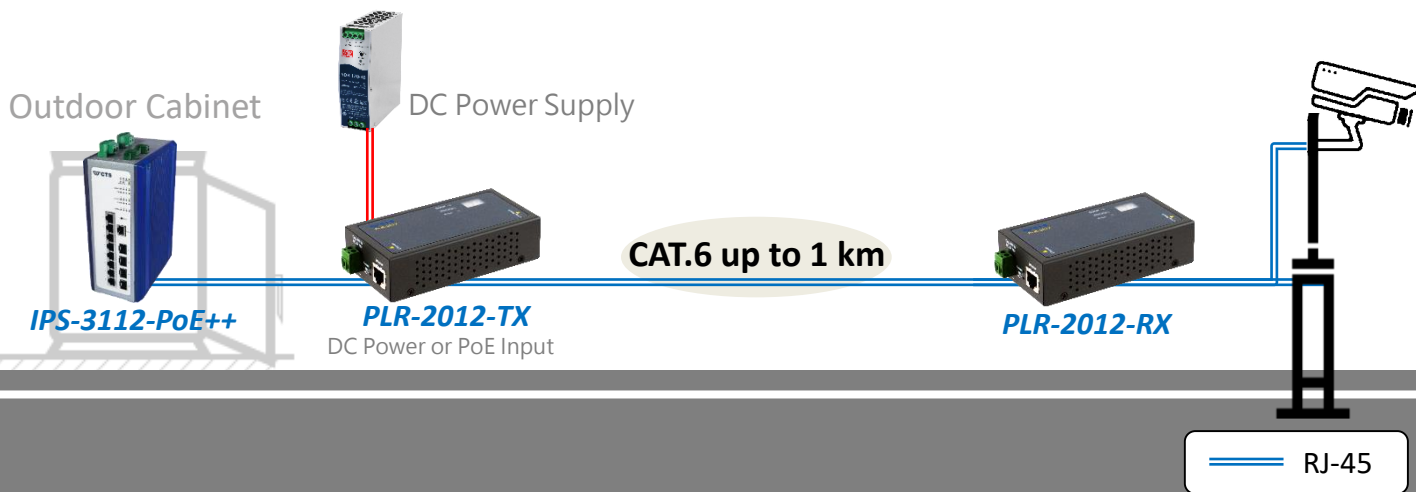
### Dimension & Weight

- Size: 60 x 120 x 32 mm (W x D x H)
- Weight: 0.29

### EMC/Safety

- FCC Class A, CE

## Application Diagram



## Performance

Distance	Data Rate (Upload/Download)	Power Input @ PLR-2012-TX	PoE Output @ PLR-2012-RX *
500 meters	10/100Mbps	44W	24 Watts
500 meters	10/100Mbps	60W	29 Watts
1,000 meters	10/10Mbps	25W	13 Watts
1,000 meters	10/10Mbps	36W	16 Watts

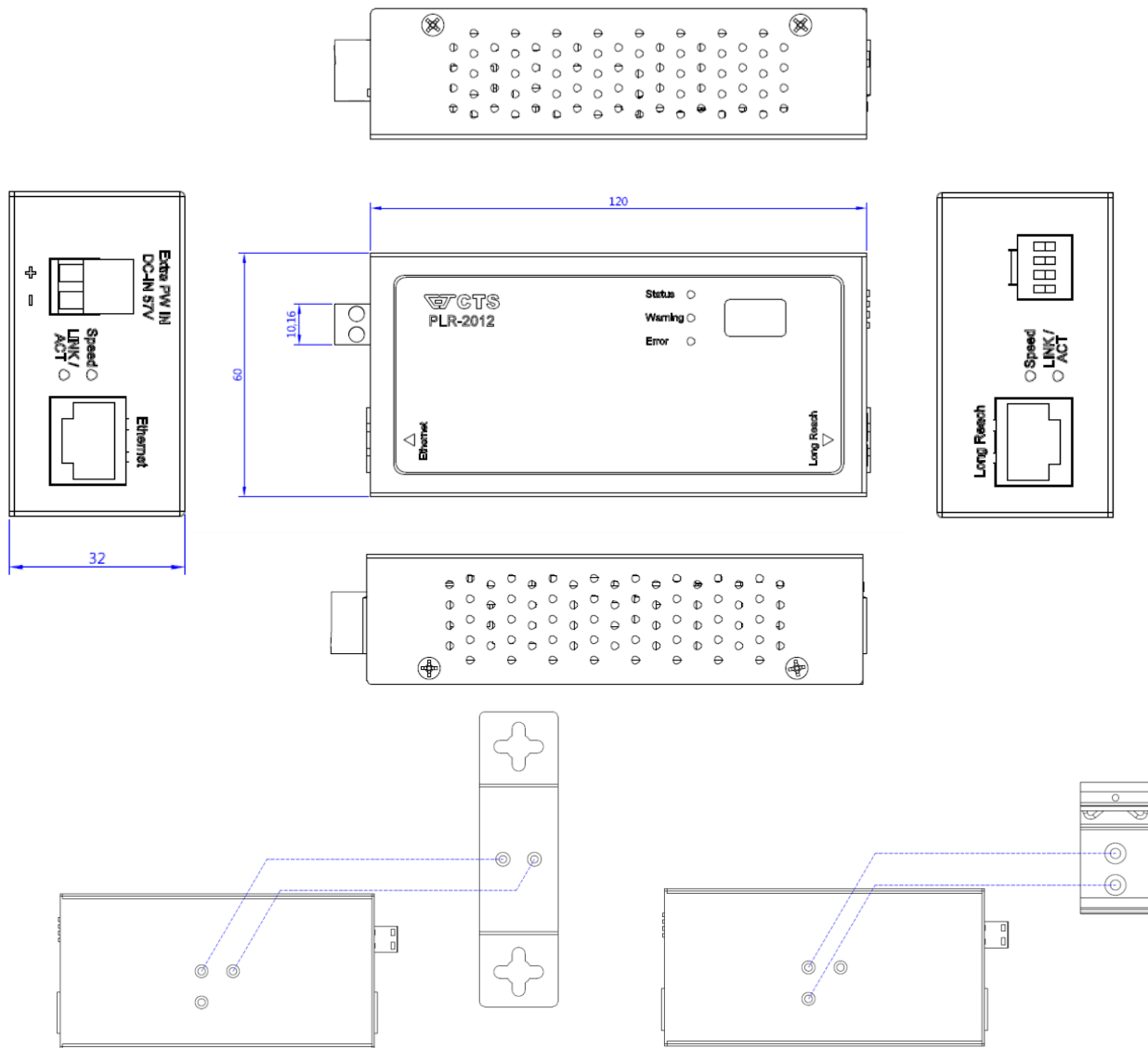
\* As there are various PoE output values in category of 6 23AWG, the PoE output will vary on the quality of the copper wire and environment factors.

## Order Information

### PLR-2012

Model	PoE Port			LRP Port			Support Power Source	
	Speed	Type	Port	Speed	Type	Port		
PLR-2012-TX	10/100Mbps	PD	1	10/100Mbps	Injector	1	54 ~ 57V DC Power Supply IEEE802.3af/at, 60W PoE++	
PLR-2012-RX	10/100Mbps	PSE	1	10/100Mbps	Extender	1	PLR-2012-TX	
PLR-2012-KIT	TX	10/100Mbps	PD	1	10/100Mbps	Injector	1	54 ~ 57V DC Power Supply IEEE802.3af/at, 60W PoE++
	RX	10/100Mbps	PSE	1	10/100Mbps	Extender	1	PLR-2012-TX

## Dimension



Dimensions (unit = mm)