LR1002-1ET/LR1002-1EC

Single-Port Long Reach Ethernet over Coax Extender

LR1002-1ET

LR1002-1EC

Features

- Supports IEEE802.3, IEEE802.3u standards
- Supports IEEE802.3af and IEEE802.3at power supply standards
- Port: 1*RJ45 10/100Mbps, 1*BNC
- Supports RG59 coaxial cable: 400m/100Mbps, 1000m/10Mbps
- Supports MDI/MDIX self-adaption
- Supports long range power supply transmission via coaxial cable

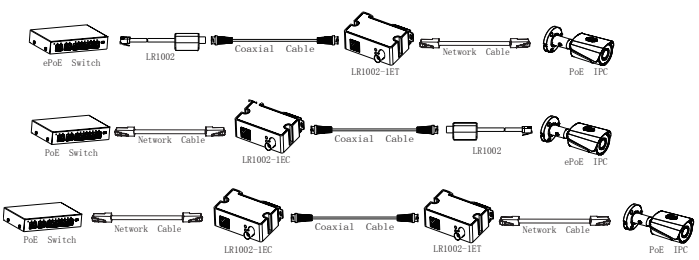
Product Overview

The product is divided into transmitter (LR1002-1ET) and receiver (LR1002-1EC). It is designed to work as a type of converter from RJ45 to BNC port, which supports long range power supply transmission via coaxial cable. It provides one BNC coaxial port and one RJ45 port. The product is equipped with two transmission modes which are 100Mbps and 10Mbps. It can be modified according to the transmission distance.

Technical Specification

Model	LR1002-1ET	LR1002-1EC
Function Port	1*10/100 Mbps Base-TX 1*BNC	
Power Consumption	<2W	
Transmission Bandwidth	RG59 coaxial cable: 400m/100Mbps, 1000m/10Mbps	
PoE Protocol	IEEE802.3af, IEEE802.3at	
Network Standard	IEEE802.3, IEEE802.3u, IEEE802.3x	
Lightning Protection	Common Mode 4KV Differential Mode 2KV	
Operating Temperature	-30°C-65°C	
Operating Humidity	5%~95%	
Weight	61g	
Dimension (W×D×H)	79mm×52mm×23mm	

Diagram



Take RG59 as an example (Max. DC resistance < 5.0Ω/100m)

LR1002-1ET/LR1002-1EC		Supports with 48V	Supports with 53V
100m	Bandwidth (Mbps)	100	100
	Load Capacity (W)	21	25.5
200m	Bandwidth (Mbps)	100	100
	Load Capacity (W)	15	24
300m	Bandwidth (Mbps)	100	100
	Load Capacity (W)	11	19
400m	Bandwidth (Mbps)	100	100
	Load Capacity (W)	9	16
500m	Bandwidth (Mbps)	10	10
	Load Capacity (W)	7	13
800m	Bandwidth (Mbps)	10	10
	Load Capacity (W)	5	8
1000m	Bandwidth (Mbps)	10	10
	Load Capacity (W)	4	6