Quick Start Guide
EECF1-LN1-R-MN-B
1 Channel EoC Receiver with PoC

Introduction

The KBC EECF1-LN1-R-MN-B is a fully ruggedized Ethernet over Coax (EoC) one-channel receiver. It has one BNC port connecting the coaxial cable and one 10/100Base-T port connecting the switch. This receiver provides connectivity for 1* PoC/PoE version EECF1-LS1-T-IN-B or EECF1-LS1-T-MN-B transmitter. Power is supplied to the transmitter through the coaxial cable. Varying data rates are supported depending on cable distance and quality. Plug-and-play design ensures ease of installation with no electrical adjustment needed. LED indicators are provided to show the operational status of the unit clearly.

This one-channel receiver is installed with a metal clip.

Features

- 1 coax port with PoC
- 1*10/100Base-T port
- Connect to 1 unit of EECF1-LS1-T-IN-B or EECF1-LS1-T-MN-B
- Coax data rate >50Mbps (300m)
- Over current and short circuit protection
- Unique PoC transmission protection design so that no power is output when the transmitter end is not connected.

Downloads

Full specifications, features and additional information can be found on the KBC website: www.kbcnetworks.com.

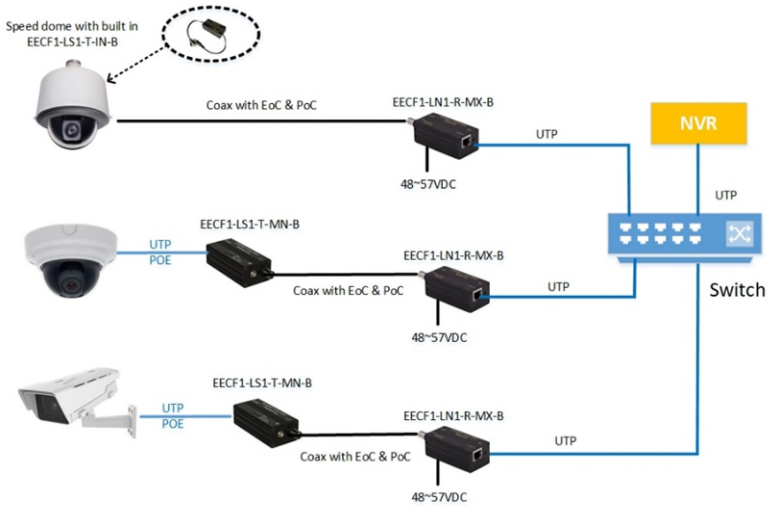
General

Check the product upon receipt for any visible damage which may have been caused during shipping.

Physical Deployment

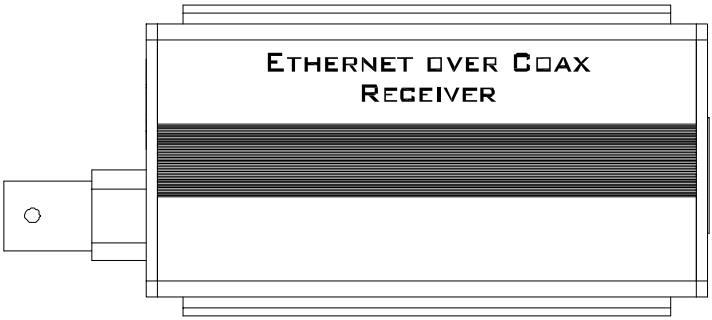
This equipment must be installed and operated in accordance with instructions found in this document. Failure to comply with these instructions will invalidate warranty.

Application

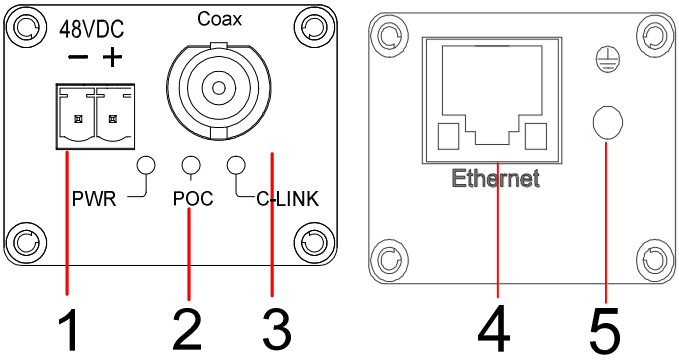


Panel Views

Top View



Panel View



Coax panel Ethernet panel

1 - Power input; 2 - LED indicators; 3 - Coax cable connecter;
4 - Ethernet RJ45 port; 5 – Grounding terminal

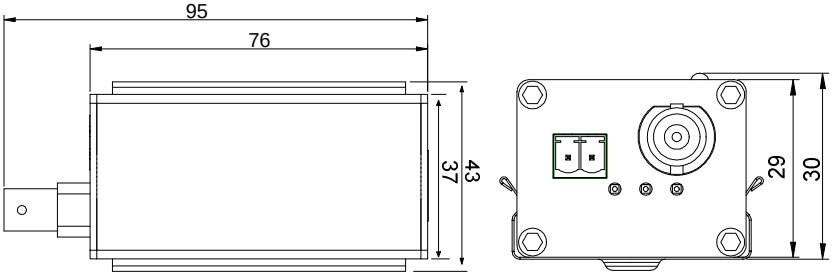
LED	Color	Status	Description
PWR	orange	On	Power supply is normal.
PoC	Green	On	PoC power supply is normal.
C-LINK	Green	On	EoC connection is normal.
Ethernet Link/Act	orange	On/Blink	On: Ethernet link is normal. Blink: The data is active.

RJ45 Definition

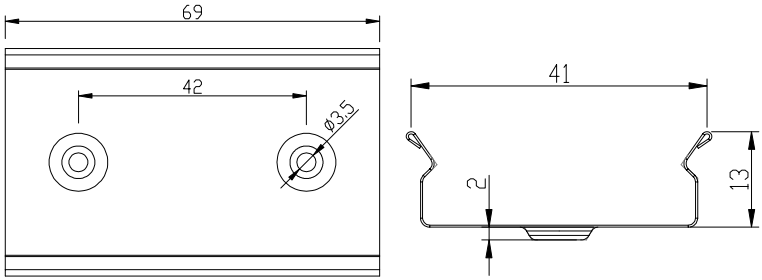
Pin	Signal
1	TD+
2	TD-
3	RD+
4	N/A
5	N/A
6	RD-
7	N/A
8	N/A

Dimensions (Unit = mm)

Equipment:



Installation Accessories:



Specifications

Item		Description
Power	Power Supply	48VDC/1A
	Consumption	<2W
Cable	Transmission Medium	75-5 or above coaxial cable and Cat5e/6 cable
	Operating Frequency	2M~28M
	Modulation	Wavelet-OFDM
	Transmission Rate	210Mbps (Max.)
	Power Negotiation Cycle	1S
	Overcurrent	720mA
	Overcurrent Protection Time	<2mS
	Transmission Distance	*500m
Ethernet Port	Transmission Medium	Cat5e/6
	Standard	IEEE802.3，IEEE802.3U
	Ethernet Delay	<1mS
Protection	ESD	IEC61000-4-2
	Anti-Thunder Protection	IEC61000-4-5 level 3
Operation Environment	Operating Temperature	-20℃~+60℃
	Storage Temperature	-40℃~+85℃
	Humidity (Non-Condensing)	0~90%
Mechanical	Dimensions (L×W×H)	76mm*37mm*29mm
	Material	Aluminum
	Color	Black
	Weight	0.2Kg

*Transmission distance depends on signal source and cable quality.

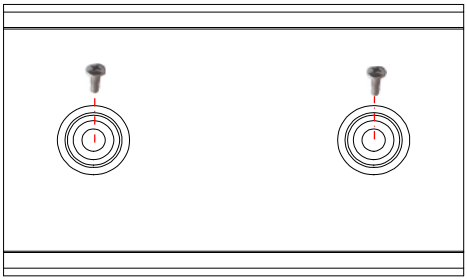
Installation Instructions

Please check the following items before installation. If any are missing, please contact the dealer.

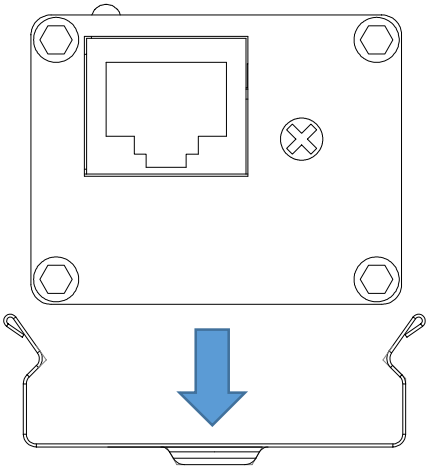
- EoC receiver---------- x1
- Wall mounting clamp ---------- x1
- QSG/User manual---------- x1
- Screws---------- x2

Please follow the installation steps below:

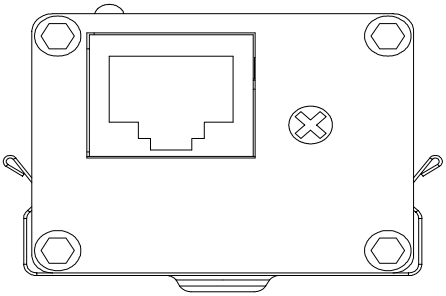
1) Attach the clamp to the wall using the 2X10mm screws.



2) Press the receiver into the clamp.



3) Use a network cable to connect the RJ45 port of the receiver and the Ethernet switch, use a coaxial cable to connect the BNC port of the receiver and the transmitter, and use a grounding wire to connect the grounding terminal.



4) Check if the installation is correct and power on the device to be sure it is operating normally.

Troubleshooting

Please refer to the following information if the device does not work:

- Confirm the installation is done according to factory installation requirements.
- Confirm if the RJ45 cable order is following the EIA/TIA568A or 568B industry standards.
- The maximum transmission distance depends on the signal source and cable quality. Please do not exceed the maximum transmission distance.
- Please replace the failed device with a known working unit to determine if you have a damaged or faulty unit.
- If the problem persists, please contact your nearest KBC office or dealer.

Need Help?

Please visit our website www.kbcnetworks.com or contact your nearest KBC office or dealer.