EECN1-LN1-X-MX-B

Industrial Ethernet Over Coax
Fixed BNC and RJ-45 Port

Product Description

Over the past few years, the video surveillance industry has moved heavily into IP networks, more and more HD and Megapixel IP cameras are being installed. Most new systems are now HD or Megapixel IP cameras connected by CAT5/5e/6 cables or making use of existing fibers. The biggest challenge of upgrading older analog systems with coax cables to IP is the cabling.   In most cases, it is cost prohibitive and often impractical to re-lay new cables. Using the existing coax to transmit HD and Megapixel IP cameras is the most economical choice. KBC have designed **eCopper™** products to meet such constraints.
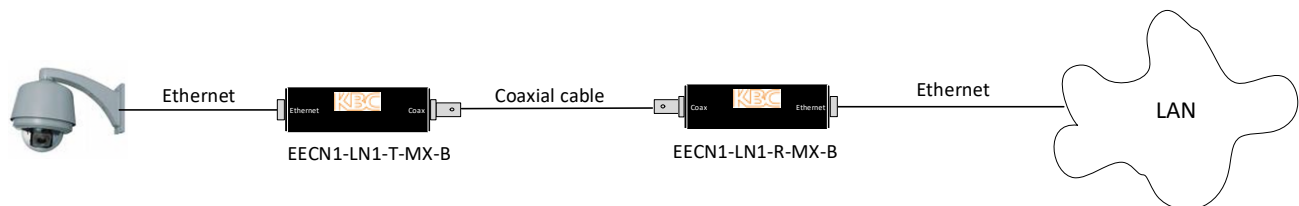
The KBC EECN1-LN1-T-MX-B is a fully ruggedized Ethernet over coax transmitter and the EECN1-LN1-R-MX-B is a fully ruggedized Ethernet over coax receiver. This transmitter provides connectivity for one 10/100Mbps IEEE standard twisted pair copper port over a 75ohm coaxial cable. Varying data rates are supported depending on cable distance and quality. The 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.

The size of the transmitter is suited for fitting inside camera housing and where space is minimal.

Product Features

- Coax data rate >50Mbps (700m) based on coax quality
- Complete protection design including surge protection, lightning protection

Typical System Configuration

EECN1-LN1-T-MX-B   EECN1-LN1-R-MX-B

Ethernet   Coaxial cable   Ethernet   LAN

Specifications

Standards
IEEE Standard IEEE 802.3 10BASE-T
IEEE 802.3u 100BASE-TX
IEEE 802.3x Full Duplex

LAN Port
Data Rate 10/100Mbps auto-sensing
Half & full duplex

Coax Port
Cable Coaxial Cable (75Ω)
Data Rate [1] >50Mbps (300m)

Power
Power Input 12~24Vdc
Power Supply [1] Input: 100~240Vac
Output: 12Vdc
Power Consumption ≤1W

Environmental
Operating Temperature -20° ~ +70°C
Storage Temperature -40° ~ +85°C
Operating Humidity 0 to 95% non-condensing
Mean Time Between Failure (MTBF) > 100,000 Hours

Mechanical
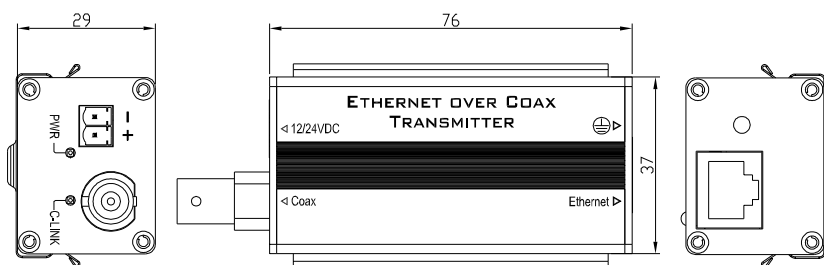Dimensions (L x W x H) 29mm x 37mm x 76mm
Mount Metal clip mount

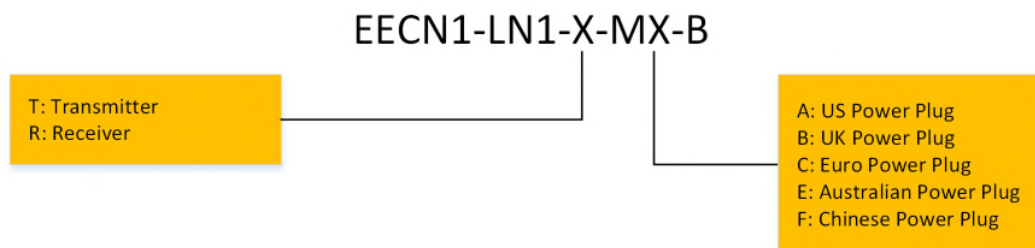**Connectors**
Ethernet RJ45
Coax BNC
Power Screw Block Terminal

Protection
Surge Coax: 6kV

Dimension

Part Number

EECN1-LN1-X-MX-B

T: Transmitter
R: Receiver

A: US Power Plug
B: UK Power Plug
C: Euro Power Plug
E: Australian Power Plug
F: Chinese Power Plug

1. Please select the power plug from US Standard, Euro 2 Circular, UK 3 Pin square or Australian Standard when placing order.