

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. Some older analog systems used UTP for better anti-interference with distances between 100m to 300m. The biggest challenge of upgrading these older analog systems with UTP to IP is the cabling. In most cases, it is cost prohibitive and often impractical to re-lay the new cables. Furthermore, IEEE Ethernet standards limit the distance to 100m. In this case, using the existing UTP to transmit HD and Megapixel IP cameras is the most economical choice. KBC designed the **eCopper™** products to meet such constraints.



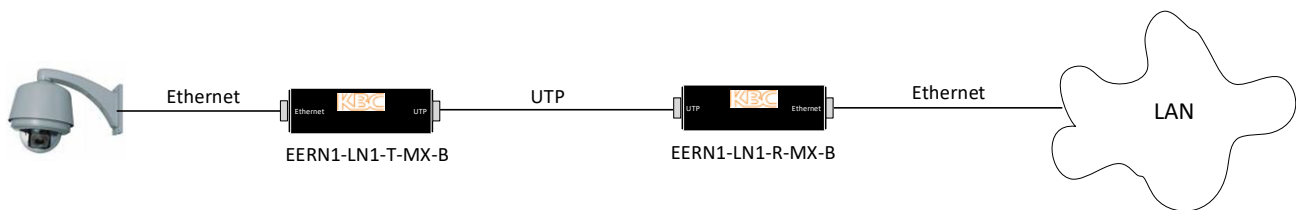
The KBC EERN1-LN1-T-MX-B is a fully ruggedized Ethernet over UTP transmitter and the KBC EERN1-LN1-R-MX-B is a fully ruggedized Ethernet over UTP receiver. The transmitter provides connectivity for one 10/100Mbps IEEE standard electrical copper port over UTP cable. Varying data rates are supported depending on cable distance and quality. The plug-and-play design ensures ease of installation with no electrical adjustment needed. LED indicators are provided to clearly show the operational status of the unit.

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

Product Features

- UTP data rate >40Mbps (1000m)
- Complete protection design including surge protection, lightning protection

Typical System Configuration



Specifications

Standards

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

LAN Port

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

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

UTP Port

Cable	CAT5, CAT5e, CAT6
Data Rate (2/4 Pairs)	>40Mbps (300m)

Connectors

Ethernet	RJ45
UTP	RJ45
Power	Screw Block Terminal

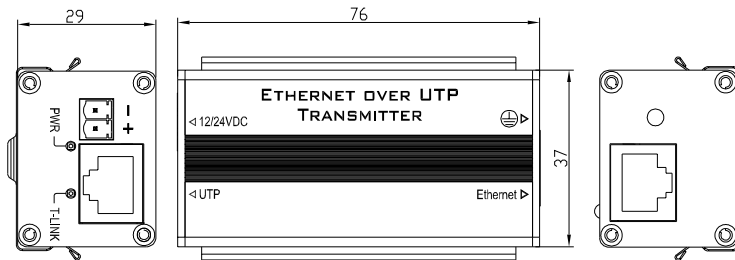
Power

Power Input	12-24Vdc
Power Supply ⁽¹⁾	Input: 100-240Vac Output: 12Vdc
Power Consumption	≤1W

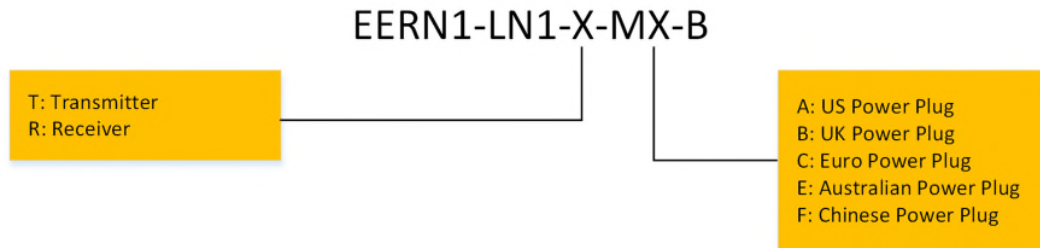
Protection

Surge	UTP: 6kV
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Dimension



Part Number



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

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