EERF16-GN3-R-RX-B

Ethernet and Power over UTP Receiver
16 UTP RJ45 Ports & 3 Gigabit RJ45 Ports
with Power over Wire Management

Product Description

The KBC **eCopper™** line of products offer a cost-effective way to connect the latest IP cameras using existing coax or copper (UTP) wiring to a remote monitoring station. In addition to saving costs and time from cabling infrastructure upgrades to CAT5/5e/6, **eCopper™** powers both its transmitter and remote cameras, eliminating the need for any additional power source at the camera site. **eCopper™** also extends the IP camera cable run distance from 100 to 300 meters, making it ideal for upgrading analog to IP cameras and other systems in large corporate buildings, retail, casinos, banks, prisons, stadiums and other applications.

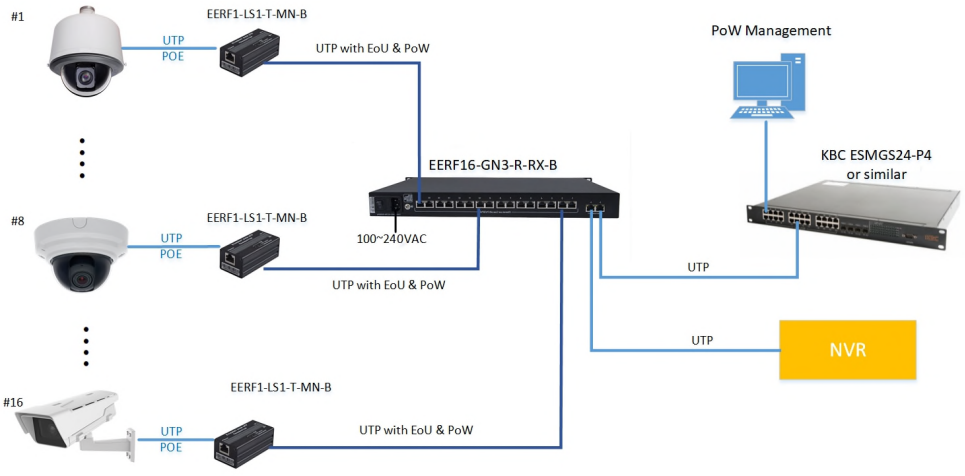
The KBC EERF16-GN3-R-RX-B series is an Ethernet over UTP (EoU) receiver with 16 UTP ports supplying Power over Wire (PoW) and 3*10/100/1000M Ethernet ports. This receiver provides connectivity up to 16 PoW/PoE (EERF1-LS1-T-MN-B) transmitters. Power is supplied to the transmitter through the UTP cable. Varying data rates are supported depending on cable distance and quality. This product also provides PoW management which allows the operator to remotely switch power on or off to any of the UTP channels. 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.

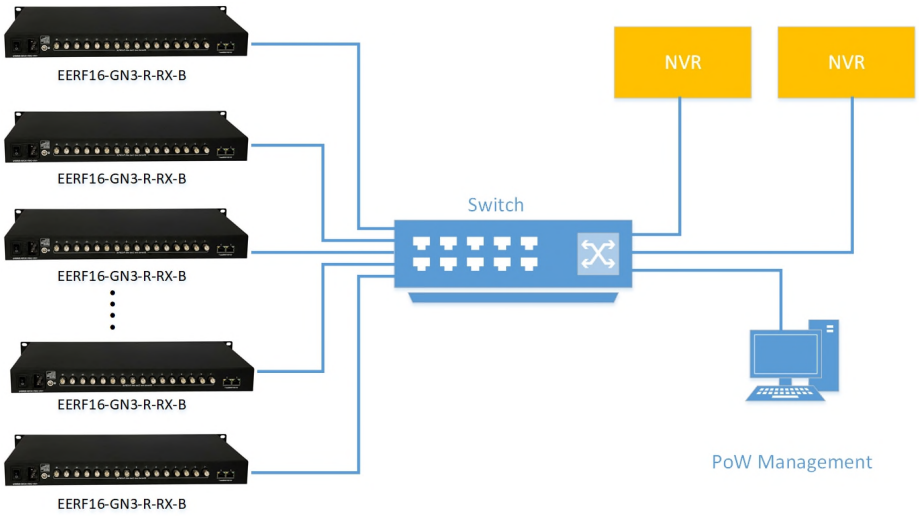
This receiver is available in 1U rack configuration.

Product Features

- 16 UTP ports with PoW
- 3 *10/100/1000M Ethernet ports (1 on the front and 2 at the rear)
- PoW management
- Connect up to 16 transmitters EERF1-LS1-T-MN-B.
- UTP data rate >40Mbps (300m)
- Based on cable quality, cable pairs used (1, 2 or 4 pairs) and voltage applied to cable (48~57VDC) from headend. PoE and PoE+ are supported by PoW up to 400m.
- Over current and short circuit protection
- Unique PoW transmission protection design so that no power is output when transmitter end is not connected.

Typical System Configuration





Specifications

Standards

IEEE Standard	IEEE 802.3 10BASE-T IEEE 802.3u 100BASE-TX IEEE802.3ab 1000Base-T

LAN Port

No of Ports	3
Data Rate	10/100/1000Mbps auto-sensing Half & full duplex

UTP Port

No of Ports	16
Cable	UTP
Data Rate(2&4 Pairs)	>40Mbps (300m)
Load Power (2 Pairs) @54VDC[1]	PoE+: 200m ; PoE: 400m
Load Power (4 pairs) @54VDC[1]	PoE+: 400m ; PoE: 800m

PoW Management

	Individual channel status LEDs Individual channel PoW on/off

Power

Power Input [2]	100-240Vac input
Power Consumption	≤500W

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)	482mm x 290mm x 44mm

Connectors

Ethernet	RJ45
UTP	RJ45
Power	IEC

Protection

Surge	UTP: 6kV

Part Number Configurator

EERF16-GN3-R-RX-B

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

1. It is assumed that the transmitter installed together with PD devices, that means the distance between the transmitter and PD device is very short (less than 5m). Per the IEEE802.3 af/at standard, the maximum power of PD for 802.3af and IEEE802.3at are 12.95w and 25.5w respectively.
2. Please select the power plug from US Standard, Euro 2 Circular, UK 3 Pin square or Australian when placing order