EECF1-LS4-T-WN-B

Industrial Ethernet Over Coax Transmitter with PoC and PoE+
One BNC and Four RJ-45 Ports

Product Description

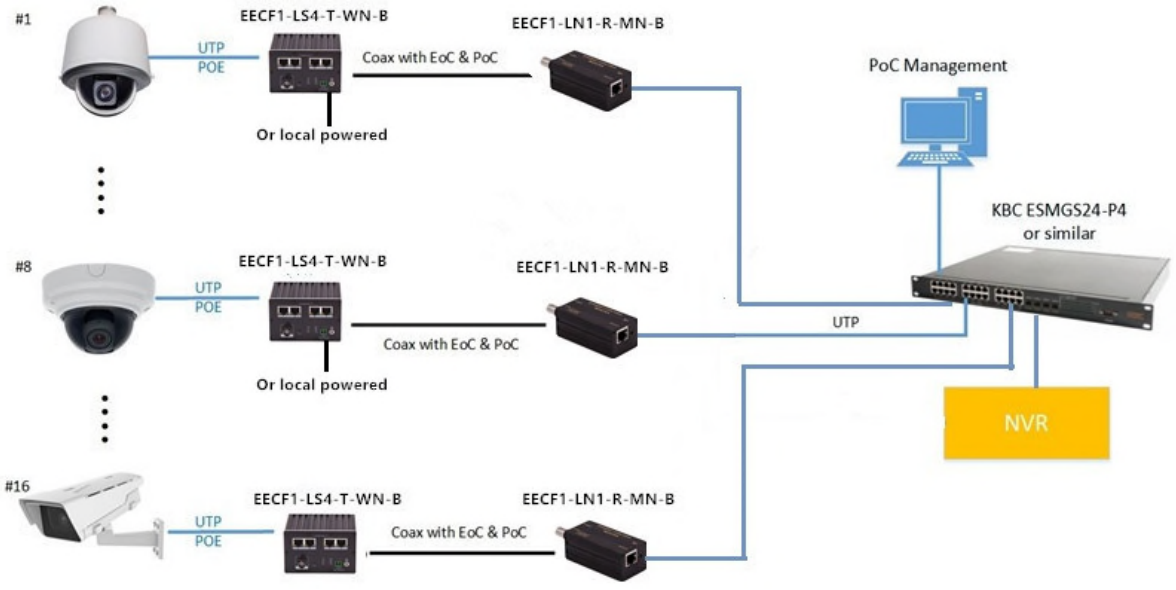
Over the past few years, the video surveillance industry has moved heavily into IP networks, more and more HD and Megapixel IP cameras are being installed. Most new systems are now HD or Megapixel IP cameras connected by CAT5/5e/6 cables or making use of existing fibers. The biggest challenge of upgrading 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. PoE IP cameras powered by the headend offers an easier solution for both IP and Power. KBC have designed **eCopper™** products to meet such constraints.

The KBC EECF1-LS4-T-WN-B is a fully ruggedized Ethernet over coax transmitter. This transmitter provides connectivity for four 10/100Mbps IEEE standard twisted pair copper ports over a 75ohm coaxial cable. Power is supplied from the headend receiver EECF1-LN1-R through the coaxial cable by Power over Coax (PoC) technology. This transmitter provides PoE/PoE+ support. 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.

Product Features

- 802.3af/802.3at compliant
- PoE+ (30W) and Power over Coax
- Coax data rate >50Mbps (300m) based on coax quality
- PoE+ is supported up to 300m based on coax quality and applied voltage to headend
- Powered by PoC from headend EECF1-LN1-R receiver (30W max. shared by the 4 ports)
- Complete protection design including surge protection, lightning protection
- Unique PoC transmission protection design together with 1 channel receiver headend
- PoC management
- Local power input

Typical System Configuration



Specifications

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

LAN Port
Number of Ports	4
Data Rate	10/100Mbps auto-sensing Half & full duplex

PoE
Standard	802.3af/at
PSE Type	End-span
PoE Power Output	30 watts max.

Coax Port
Cable	Coaxial Cable (75Ω)
Data Rate [1]	>50Mbps (300m)
Maximum PoE Distance [2]	700m
Maximum PoE+ Distance [2]	300m

Power
PoC Power Input	>40Vdc (30W max. shared by the 4 ports)
Local Power Input	45~57Vdc
Power Consumption	≤1W (Without PoC)

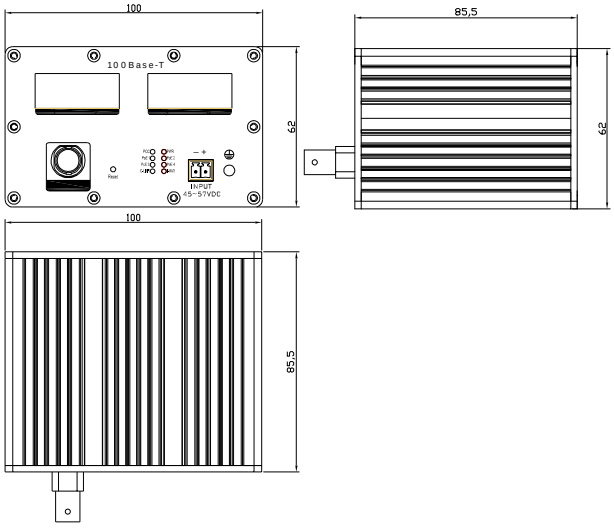
Environmental
Operating Temperature	-20° ~ +70°C
Storage Temperature	-40° ~ +85°C
Operating Humidity	0 to 95% non-condensing
Mean Time Between Failure (MTBF)	> 100,000 Hours

Mechanical
Dimensions (L x W x H)	100*85.5*62 mm
Mount	Metal clip mount

Connectors
Ethernet	RJ45
Coax	BNC

Protection
Surge	Coax: 6kV; Ethernet: 2kV

Dimension



Part Number

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(1) The data is based on RG59 and is related to coax quality.
(2) The data is based on RG59 test; it is related to coax quality and applied voltage(48~57VDC) to receiver end.