EECF1-LS1-T-IN-B

Industrial Ethernet Over Coax Transmitter with PoC and Direct PoE+ BNC and RJ-45 ports with flying cable

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 EECF1-LS1-T-IN-B is a fully ruggedized Ethernet over coax transmitter. This transmitter provides connectivity for one 10/100Mbps IEEE standard twisted-pair copper port over a 75ohm coaxial cable. Power is supplied from one of the headend Receivers, EECF16-GN3-R, EECF8-GN3-R, EECF4-DN1-R, or EECF1-LN1 –R Ethernet over coax receivers 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.

The Ethernet and coax ports of the transmitter includes flying cables. Its size is suited for fitting inside camera housing and where space is minimal.

Product Features

- 802.3af/802.3at compliant
- PoE+ (30W) and Power over Coax
- The Ethernet and coax ports of the transmitter include flying cables
- 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: EECF16-GN3-R, EECF8-GN3-R, EECF4-DN1-R, or EECF1-LN1-R
- Complete protection design including surge and lightning protection
- Unique PoC transmission protection design together with 1, 4, 8 and 16 channels receiver at headend

Typical System Configuration
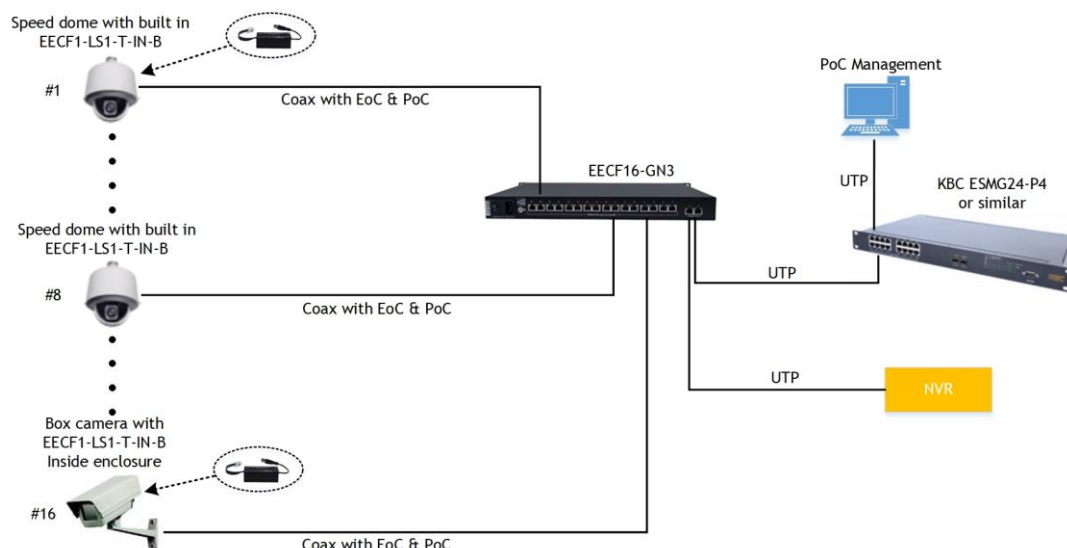
Specifications

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

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
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)	76mm x 37mm x 25mm
Mount	Velcro strip mount

Connectors
Ethernet	RJ45 (17cm)
Coax	BNC (45cm)

Protection
Surge	Coax: 6kV; Ethernet: 2kV

Dimension
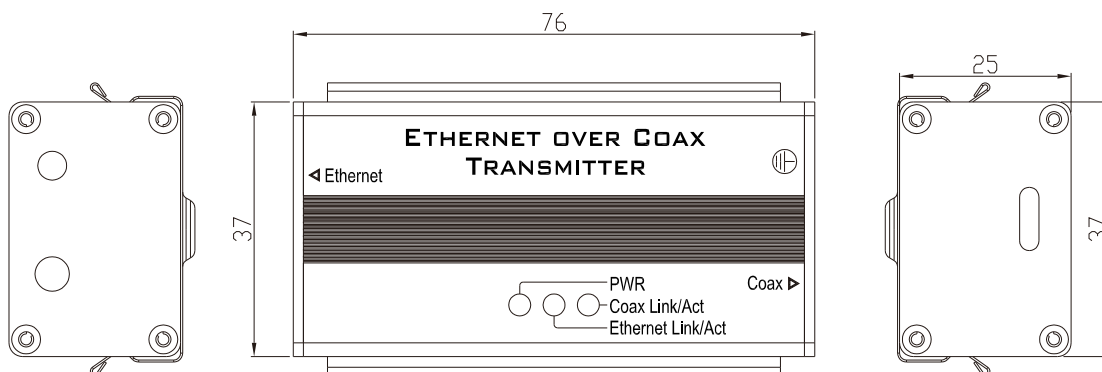
Part Number

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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 the receiver end.