EECF4-DN1-R-XN-B

Ethernet and Power over Coax Receiver
4 Coax Ports, 1*10/100/1000M Base-T & 1*Gigabit SFP
With Power over Coax 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 EECF4-DN1-R is an Ethernet over Coax (EoC) receiver with 4 coax ports with Power Over Coax (PoC) and 1*10/100/1000M Ethernet ports,1*1000Base-FX SFP port. This receiver provides connectivity up to 4 units PoC/PoE version EECF1-LS1-T-MN-B transmitter. Power is supplied to the transmitter through the coaxial cable. Varying data rates are supported depending on cable distance and quality. This product also provides PoC management which allows the operator to remotely switch power on or off to any of the coax 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 clearly. This receiver is available in DIN rail mount and wall mount.

Product Features

- 4 coax ports with PoC
- 1 *10/100/1000M Ethernet ports,1*1000Base-FX SFP port
- PoC management
- Connect up to 4 units EECF1-LS1-T-IN-B or EECF1-LS1-T-MN-B or any combination
- Coax data rate >50Mbps (300m)
- PoE+ is supported up to 300m based on coax quality and applied voltage to coax (48~57VDC)
- Over current and short circuit protection
- Unique PoC transmission protection design so that no power is output when transmitter end is not connected.

Typical System Configuration
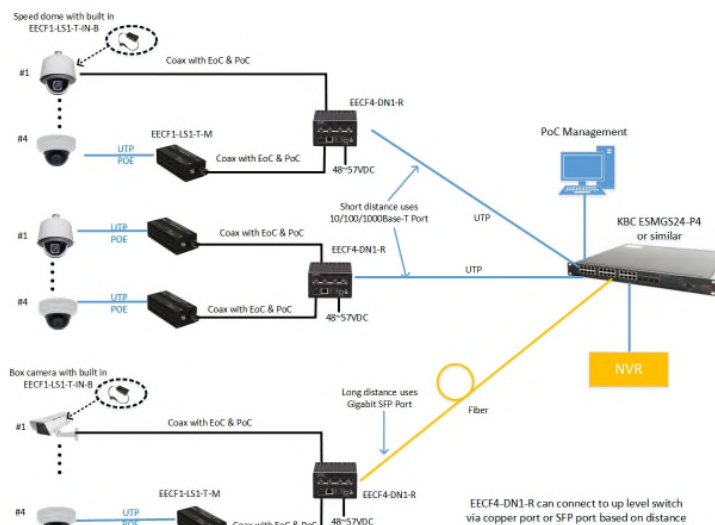
Specifications

Standards

IEEE Standard	IEEE 802.3, IEEE802.3u
	IEEE802.3ab, IEEE802.3z

LAN Port

10/100/1000M Base-T	1
Gigabit SFP[1]	1

Coax Port

No of Ports	4
Cable	Coaxial Cable (75Ω)
Data Rate[2]	>50Mbps (300m)
Maximum PoE Distance[3]	700m
Maximum PoE+ Distance[3]	300m

PoC Management

	Individual channel PoC on/off
	Individual channel status LEDs

Power[4]

Power Input	48–57VDC
Power Consumption	≤ 5W

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

Dimension (L×W×H)	100mm x 85mm x 62mm

Connectors

Ethernet	RJ45
Coax	BNC
Power	Terminal

Protection

Surge	Coax: 6kV; Ethernet: 2kV

Dimensions Drawing
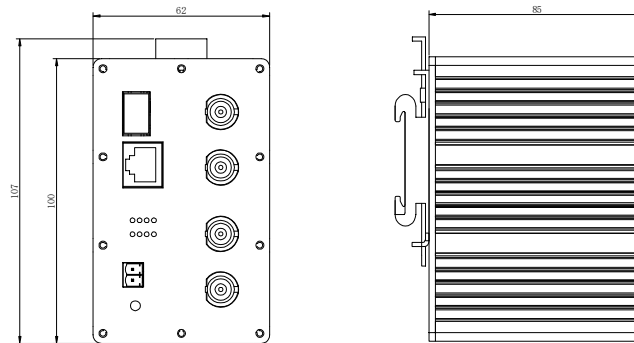
Part Number Configurator

EECF4-DN1-R-WN-B

W: Wall Mount
D: DIN Rail

(1) SFP sold separately
(2) The data is based on RG59 and is related with coax quality
(3) The data is based on RG59 test and it is related to coax quality and applied voltage(48–57VDC) to coax
(4) Power Supply sold separately; suggested power supply is KBC NDR120-48, NDR240-48, GST160A48

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