



Product Description

The KBC Extended Ethernet 100 Series is a 10/100 Ethernet line driver providing excellent repeatable performance for today's CCTV systems. The line driver provides connectivity for one, 10/100Mbps IEEE standard twisted pair copper port over a 75Ω coaxial cable interface allowing new IP technology to pass over existing legacy cable up to a distance of 3km⁽¹⁾. The unit has four selectable transmission modes which provide the flexibility to obtain the best connectivity depending on the cable quality or distance required. Maximum data rates of up to 100Mbps are achievable.

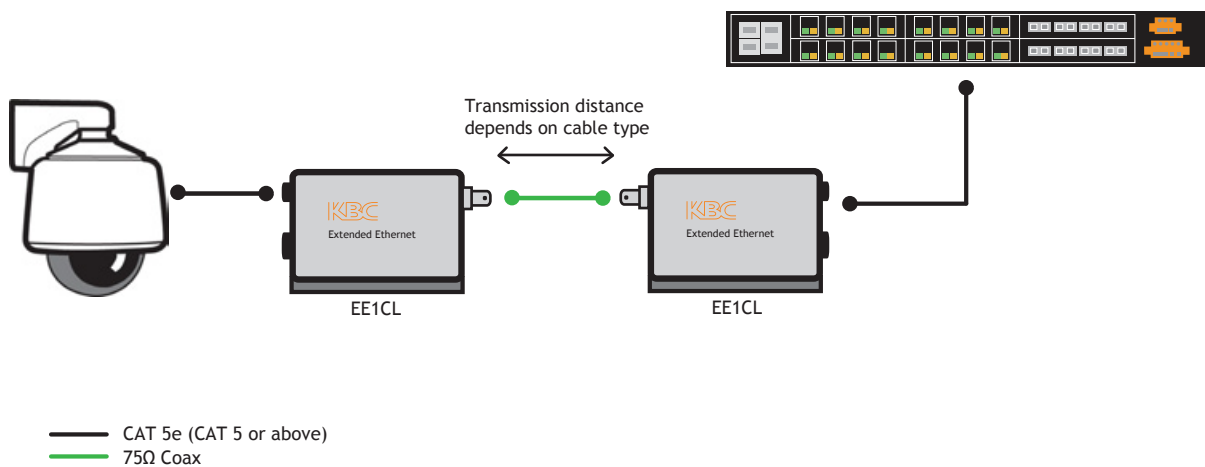
The series is available in compact format only but units can also be mounted into a 2.4U, 19" rack configuration.



Product Features

- Automatic data rate adjustment
- Up to 100Mbps symmetrical line rate supported
- Transmission distances up to 3km
- Selectable transmission modes
- Compact unit
- High density rack system
- 10/100 auto sensing
- MDI/MDIX

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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RJ45 Port (Ethernet)

Data Format	Ethernet
Data Rate	10/100Mbps Auto-Sensing Full Duplex

Coax

Data Rate & Transmission Distance ⁽¹⁾	Data rate (Mbps)	Distance (m)
Asymmetric Mode	100/65	200
RG-6 cable	100/64	400
	100/59	600
	100/53	800
	94/44	1000
	84/36	1200
	74/28	1400
	66/19	1600
	60/14	1800
	44/15	2000
	35/12	2200
	32/10	2400
	29/8	2600
	27/6	2800
	25/5	3000

Symmetric Mode	100/100	200
RG-6 cable	97/100	400
	86/91	600
	79/80	800
	69/66	1000
	60/52	1200
	51/41	1400
	45/36	1600
	40/29	1800
	27/26	2000
	23/24	2200
	22/21	2400
	20/18	2600
	18/15	2800
	17/13	3000

Power

Power Input	5Vdc, 2A
Power Consumption	6.3W

Mechanical

Dimensions (Compact WxHxD) ⁽²⁾	97mm x 70mm x 26mm 3.82" x 2.76" x 1.02"
Weight	0.2kg / 7.05oz

Environmental

Operating Temperature	0° - +50°C / 32° - +122°F
Storage Temperature	-10° - +70°C / 14° - +158°F
Operating Humidity	5 to 90% non-condensing
Mean Time Between Failure (MTBF)	> 100,000 hours

Connectors

10/100 Electrical	1x RJ45
Coax	1 x 75Ω coaxial
Power	Jack socket, 2.5mm

Dip Switch Settings

Unit Type	CO/CPE
Channel	Interleave/Fast
Transmission Mode	Symmetrical/asymmetrical
SNR	9dB/6dB

Part Number Configurator

EE1CL-1-WB

A: US Power Connection
B: UK Power Connection
C: Euro Power Connection
D: Special Product
E: Australian Power Connection

Accessory Part Numbers

EE1R3-* 19" 2.4U converter chassis with PSU, 15 units

* A: USA power connector, B: UK power connector, C: Euro power connector, E: Australian power connector

1. Transmission distances supplied are for indication purposes only. Actual achievable transmission distances on site will depend on cable type installed and quality and age of installation.
2. Please consult with KBC for dimensional drawings.

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