

Ethernet Extender



Description:

The CAIEK01 is an Ethernet extender that consists of two parts: SV unit and IPC unit. The extender can transfer Ethernet signal of the IPC unit to carrier signal through the coaxial or network cable and extend to the SV unit then transfer the carrier signal and transmit power synchronously. The SV unit has one power port, one PoE input port, and two output ports: BNC and RJ45. The IPC unit has two input ports: BNC and RJ45 and one PoE output port.

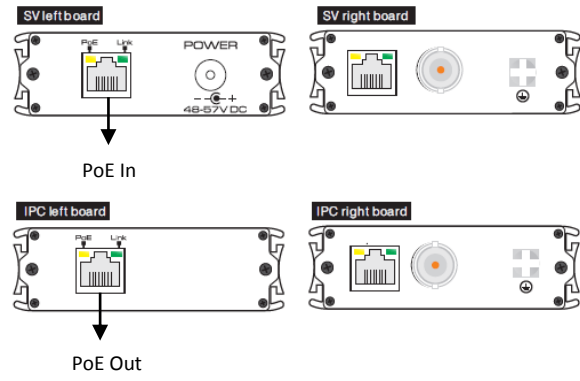
Features:

- SV Unit
 - 48~57 V DC power port
 - PoE input port
 - BNC output port
 - RJ45 output port
- IPC Unit
 - PoE output port
 - BNC input port
 - RJ45 input port
- Transmits Ethernet signal and power up to 1,640 feet (500m) through coaxial cable
- Transmits Ethernet signal and power up to 1,315 feet (400m) through network cable
- Use 75~5 standard or above coaxial cable and CAT5e / 6 cable to get the longest transmission
- Plug-and-play, no set-up required

CAIEK01 Specifications

Model	Coaxial Cable	Network Cable
CAIEK01	75~5 and higher	CAT5e / 6

Power	
Source	DC 48~57 V
Consumption	< 2W
Power Supply	PoE power supply or adapter power supply
Ethernet Port	
Ethernet Port	EPOC: 0 – 100 Mbps Ethernet: 10/100 Mbps <i>Transmission bandwidth changes with transmission distance. Please refer to the table below.</i>
Transmission Distance	EPOC Coaxial Cable: 0-500m EPOC Network Cable: 0-400m
Transmission Medium	Coaxial Cable: 75~5 and above Network Cable: CAT5e / 6
PoE Protocol	IEEE802.3af, IEEE802.3at
PoE Mode	Support end-span and mid-span
Ethernet Standard	IEEE802.3 10 BASE-T IEEE802.3u 100 BASE-TX
Ethernet Delay	< 1 ms
Protection Level	
ESD	1a Contact Discharge – Level 3 1b Air Discharge – Level 3 Per: IEC61000-4-2
Anti-thunder Protection	Per: IEC61000-4-5 – Level 3

General Information	
Temperature	32°F to 131°F (0°C to 55°C)
Humidity	≤ 95%
Weight	0.35 lbs. (154g)
Dimensions (L x W x H)	2.48" x 3.22" x 0.98" (63 x 82 x 25 mm)
Dimensions	
	

Power Supply		PoE Ethernet Power Supply		54V DC Power Supply	
SV ↔ IPC Cable		75 ~ 5	CAT5E	75 ~ 5	CAT5E
100m	Bandwidth (Mbps)	92.6	91.2	92.6	91.2
	Load Capacity (W)	16.1	17.2	23	23
200m	Bandwidth (Mbps)	91	84.2	91	84.2
	Load Capacity (W)	10	12	17	22
300m	Bandwidth (Mbps)	90.8	74.5	90.8	74.5
	Load Capacity (W)	8	9.1	12	16
400m	Bandwidth (Mbps)	90.5	55.7	90.5	55.7
	Load Capacity (W)	5	6.5	10	12
500m	Bandwidth (Mbps)	83.7	/	83.7	/
	Load Capacity (W)	4.5	/	8	/

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Specifications and design are subject to change without notice. Conversions: 1" = 25.4mm Measurement conversions are approximate.