# IP TRANSMISSION

Ethernet / PoE Extender Kit Over Coax or CAT5

Key Features

- Consists of two parts, SV-Unit and IPC-Unit
- Transmits ethernet signal and PoE signal up to 500m on coaxial cable
- Transmit ethernet signal up to 400m through network cables

- Ethernet delay less than 1ms, point to point application
- Standard: IEEE802.3 10BASE-T, IEEE802.3u 100BASE-TX, IEEE802.3af
- Circuit isolation protection

- MIT Rack mountable
- Plug and play, no setting required

The Genie **GRMPOEOC** is an ethernet extender designed to transmit and receive ethernet and PoE over Coax or CAT5 (using HD baluns). **GRMPOEOC** is supplied as a pair (SV and IPC) as well as with 2 fixing brackets and 2 HD baluns.

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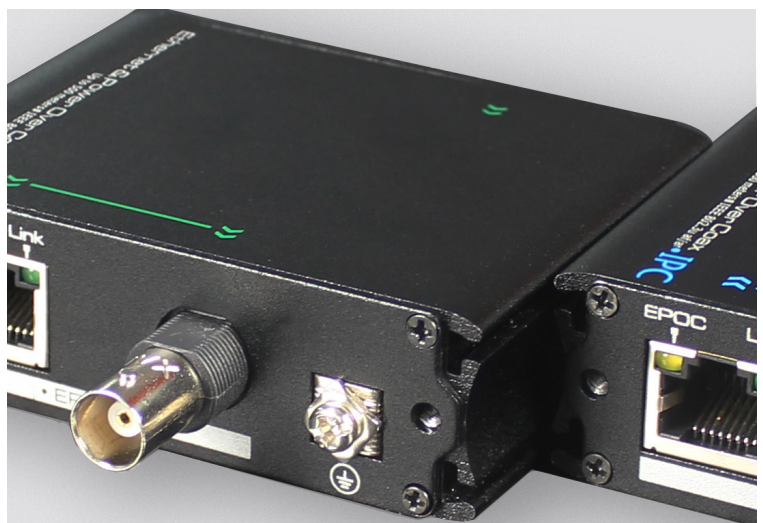
Specification

Power

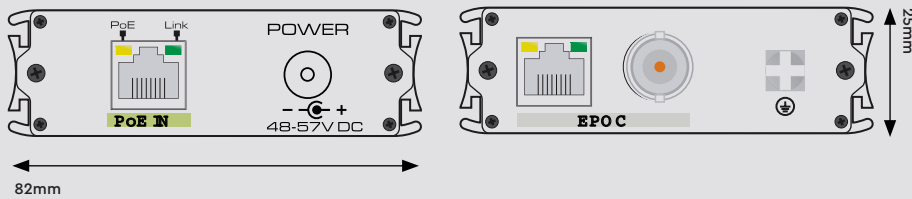|	
Power Supply	PoE power supply or power adapter supply
Voltage Range	DC48V~57V
Consumption	<2W

Ethernet Port

Ethernet Port	EPOC: 0–100Mbps Ethernet: 10/100Mbps Transmission bandwidth changes with transmission distance, see table 1
Transmission Distance	EPOC Coaxial Cable: 0–500m(Max) EPOC Network Cable: 0–400m(Max)
Transmission Medium	75–5 Above Coaxial Cable and Cat5e/6
PoE Agreement	Support IEEE802.3af, IEEE802.3at
PoE Power Supply	Support End-span and Mid-span
Ethernet Standard	IEEE802.3 10BASE-T, IEEE802.3u 100BASE-TX
Ethernet Delay	<1ms

Others

LED Status Indicator	PoE IN Port and PoE OUT Port: RJ45 yellow light indicates PoE or DC power status. RJ45 green light indicates ethernet signal transmission EPOC Port: RJ45 yellow/green indicates signal transmission
ESD Protection	1a Contact Discharge Level 3 1b Air Discharge Level 3 Per: IEC61000–4–2
Communication Lightning Protection	Per: IEC61000–4–5 Level 3
Working Temperature	-40°C~75°C
Storage Temperature	-40°C~85°C
Humidity (Non-Condensing)	0~95%
Material	Aluminum
Dimensions	63.2 × 82 × 25 mm
Weight	IPC: 153g, SV: 154g

Dimensions

POWER
PoE Link
PoE IN
48-57V DC
EPOC
82mm
25mm

Application

Monitor

PoE Ethernet Switch

NVR

SV Unit

IPC Unit

Coaxial Cable

Cat5e/6

IPC Unit

Cat5e/6

PoE IP Camera

SV Unit

PoE IP Camera
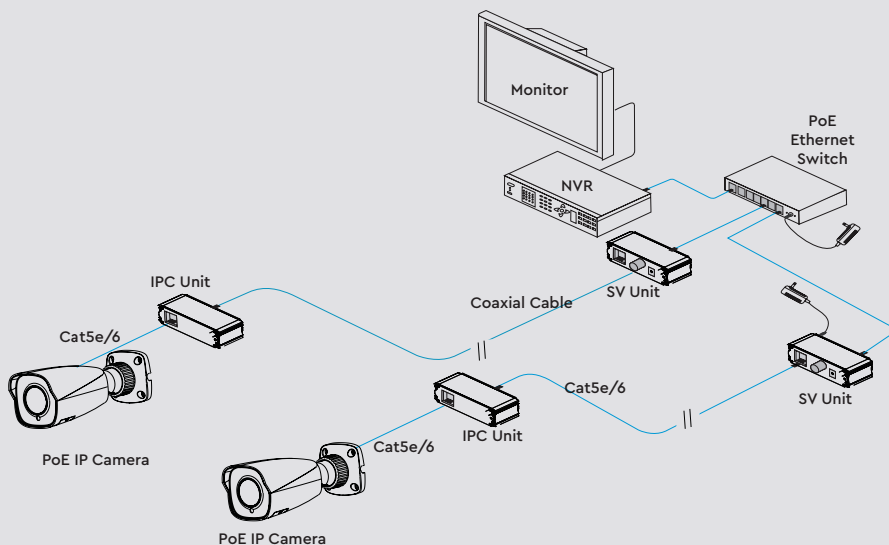
Cat5e/6

Table 1: Transmission Distance

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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