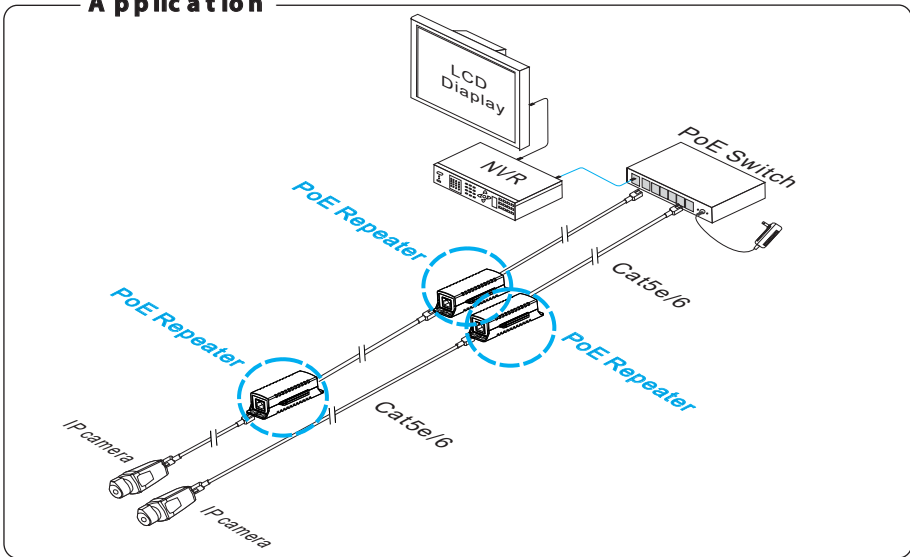




DATASHEET
CY-EXT

The PoE Ethernet extender can transmit Ethernet signal and power through one single network cable, which solve the transmission distance limitation of devices as for network camera and so on. The product supports IEEE802.3u 100Base-TX and IEEE802.3 af/at standards. The Max power consumption transmission can up to 30 watts, which can supply 25.4 watts power consumption for terminal devices. The product can extend to 100M and thus the cascading distance can up to 400m after be cascaded for several times. And it can support 100Mbps full duplex transmission mode with good protection ability of anti-ESD and anti-surge. The special design of built-in splicing slot on both sides and magnetic attraction as well as hanger on the bottom enables multiple installation methods of wall-mounting, splicing and adsorption. Above all, the product can give a better systematic solution of transmission distance and power supplying for network camera and other device.

Application



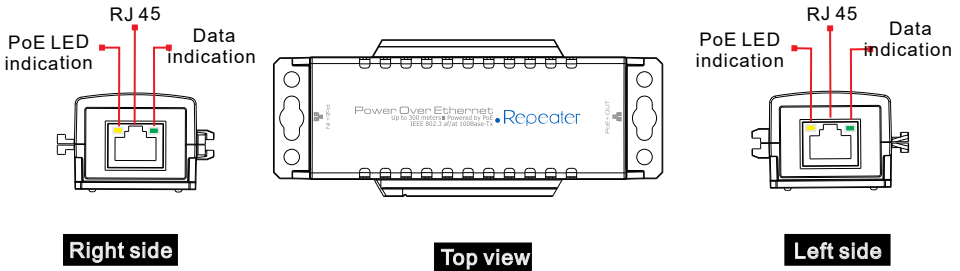
Features

- Each can repeat Ethernet and power signal to 100m and cascade connection up to 400m;
- Support IEEE 802.3u, 100Base-TX standard and IEEE 802.3 af/at PoE standard;
- Real-time, 0 time-delay, with no-store & forward technology;
- Superior ESD and surge protection ability;
- Plug and play, no software and agreement transformation necessary;
- Built-in splicing slot, with magnet and hanger, unique and integrated design, wall-mounted, splicing and adsorption installations available, which suits in all kinds of engineering installation.

⚠ Notice

- 1) Please use standard Cat5e/6 cable to reach the longest transmission distance;
- 2) Please make sure the transmission directivity of PoE is correct.

■ Panel diagram



- 1) The photo Top view's "PoE IN" and "PoE OUT" indicate the PoE transmission direction;
- 2) The photo Right side's "PoE LED indication" is yellow LED for PoE status; and "Data indication" is green LED data connection. Different LED status have different means. Green LED lasting ON: Data connection is OK. Green LED out: Data connection is fail. Green LED flick: Data connection and transmission is OK.
- 3) The photo Left side's LED function is same as the photo Right side.

■ Installation steps

Please check the following items before installation, if anything missing, please contact the dealer .

- PoE Ethernet repeater 1PCS
- User Manual 1PCS

Please follow installation steps as below:

- 1) Turn off the power of all the related devices before the installation, otherwise the device would be damaged;
- 2) Check if the Ethernet cable and other cables are connected correctly;
- 3) Connect the PoE IN port of PoE Ethernet repeater and PoE Switch by Ethernet cable;
- 4) Connect the PoE OUT port of POE Ethernet repeater and PoE IP Camera by Ethernet cable;
- 5) Check if the installation is correct and device is good, make sure all the connection is reliable and then power up the system;
- 6) Make sure the network and PoE transmission are working.

■ Specification

Item		Description
Power	Power Supply	PoE
	Consumption	< 3 Watt
Network Port	Port	PoE IN : 100Mbps、 PoE In port PoE OUT : 100Mbps、 PoE Output port
	Transmission distance	Max: 400m (Please reference to the diagram I to distinguish the relation between power consumption and transmission distance)
	Media	Cat5e/6
	PoE standard	Supports IEEE802.3af、 IEEE802.3at standards
	PoE Power supply	Media-span and End-span
Ethernet Exchange	Standard	IEEE802.3u 100BASE-TX
	Delay	<20us
Status	Indicator LED	PoE IN port and PoE OUT port : RJ 45 Yellow LED indicate PoE status ; Green LED indicate working status.
Protection	ESD	Lever III 1a Contact Discharge Lever III 1b Air Discharge Per : IEC61000- 4- 2
	Surge Protection	Lever III Per : IEC61000- 4- 5
Environment	Working Temperature	-10 ~55
	Storage Temperature	-40 ~85
	Humidity	0~95%
Mechanical	Size(Lx Wx H)	113mm×45.5mm×29mm
	Material	ABS
	Color	Black
	Weight(Gross)	58g

Product are subject to change without prior notice

■ Distributive relation between power consumption and transmission distance

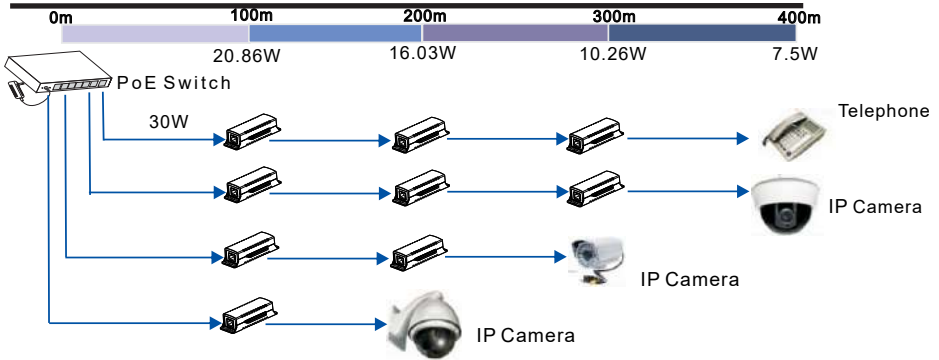
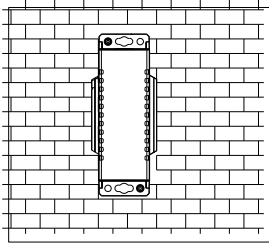
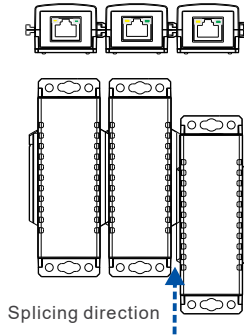


Diagram I

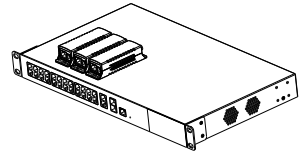
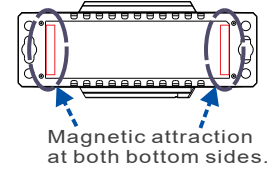
■ Installation method



1. Wall-Mounting type

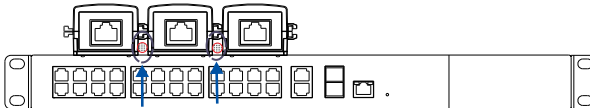


2. Splicing type

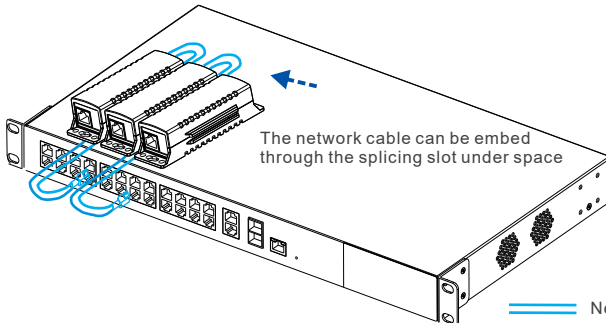


3. Magnetic attraction type
(Optional component, you need to buy them if necessary)

■ Network cable collating



The network cable can be embed through the splicing slot under space



Network cable

■ Troubleshooting

If any trouble in installation, please follow these steps:

- Please make sure you have followed the instruction to install the device;
- Please confirm if the RJ45 cable order is in accordance with the EIA/TIA568A or 568B industry standards;
- The transmission distance depends on the signal source and cable quality, please do not exceed the maximum transmission distance;
- Please replace a failure device with a proper one to check if the device is broken;
- If the problem still exists, please contact the dealer.

CYGNUS
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