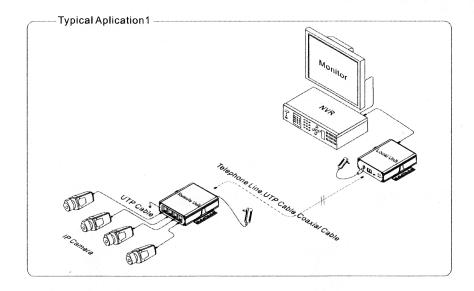
Ethernet Extender

Ethernet extender is a new type of network extender that adopting VDSL2 technology. It can extend network signal up to 1500m via coax(or UTP cable telephone line) with transmission band up to 100M bps. The extender can also support ethernet switch. Several host can use the same network via the ethernet extender. It also support 4ch ethernet signal transmission. The network extender kit includes one server unit and one camera unit. The network extender kit features strong isolation, lighting protection, anti-interference. It is recommended in CCTV system, meeting system and smart construction project etc..



Features

- Power Supply: 12V DC;
- Transmission Cable: Coax, UTP Cable, Telephone Cable;
- Transmission Distance: 0-1500m;
- Standard: Support IEEE802.3XILIE, 10/100Base-TX Ethernet Standard;
- Operation: Upgrade existing network, easy operation, plug&play;
- Structure: Delicate design, support MIT rack, easy installation.



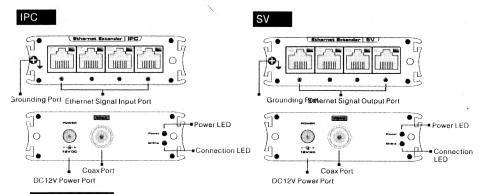
Notice

The transmission distance is related to the quality of the cable, please use standard coax or UTP cable for best transmission quality.



Ethernet Extender

■Board Diagram



LED Instruction

LED	Status	Instruction		
POWER	On	Power on		
	Off	Power off or power supply error		
ONLINE	Flash Twice	Flash twice after power on. Device is in initialization.		
	Slow Flash	After initialization, the LED will be in slow flash to search an device. The duration of the process will be 1min.		
	Intermittent Flash	Connection success		
RJ45 LED	Green on	Network port connected		
	Yellow on	Network port not connected		
	Yellow Flash	Device in communication		

Package Contents

Please check the following list. If you find out the item missed, please contact your local dealer.

Ethernet Extender	1kit
 MIT Hanger Accessory Kit 	2kit
 BNC Converter 	2set
 DC12V/1A Power Adaptor 	2set
Application Manual	1pcs

- Power off the system before the installation. Installation with system power on may cause damage to the device.
- 2. Connect RJ45 port of the IPC unit to the IP cameras;
- 3. Connect RJ45 port of the SV unit to the NVR;
- 4. Connect the SV unit and IPC unit with the coax, UTP cable or telephone cable;
- 5. Examine the system and make sure the connection is stable. Power the system.
- 6. Examine the network.



Specification

	Item	Description				
Power	Power Supply	Power Adapter				
	Power Range	DC12V				
	Consumption	<6W				
Ethernet Port	Port	RJ45 Port, Support MDI/MDIX Function				
	Signal	10/100Mbps High Speed Ethernet Signal				
	Transmission Distance	100m				
EOC Port	Port	Female BNC Port				
	Signal	VDSL2 Standard				
	Distance	Max Rate(Max)	Upstream Rate(Max)	Download Rate(Max)		
	300m	128Mbps	44Mbps	84Mbps		
	600m	112Mbps	36Mbps	76Mbps		
	900m	82Mbps	23Mbps	59Mbps		
	1200m	59Mbps	13Mbps	46Mbps		
	1500m	43Mbps	9Mbps	34Mbps		
EOC to 24AWG UTP Transmission Rate	Distance	Max Rate(Max)	Upstream Rate(Max)	Download Rate(Max)		
	300m	130Mbps	45Mbps	85Mbps		
	600m	88Mbps	27Mbps	61Mbps		
	900m	48Mbps	10Mbps	38Mbps		
	1200m	32Mbps	6Mbps	26Mbps		
	1500m	15Mbps	2Mbps	13Mbps		
Status	Power LED	1个 (Red)				
	Connection LED	1个(Green)				
Protection	Surge Protection	2KV (Different Mode) 4KV (Common Mode) Per: IEC61000-4-5				
	ESD	1a Contact Discharge Level 3 1b Air Discharge Level 3 Per:IEC61000-4-2				
Environment	Working Temperature	0℃~55℃				
	Storage Temperature	-20℃~70℃				
	Humidity	0~95%				
Structure	Size	138mm × 82mm × 25mm (With Port Length)				
	Material	Aluminum				
	Color	Black				
	Weight	206g				
Stability	MTBF >30000h					

Specifications suject to change without notice.

Problem Examination

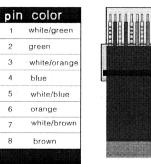
Please examine the device according the following instruction:

- Please installing the system according to the instruction;
- Please check if the RJ45 cable reach the standard of EIA/TIA568A pr 568B:
- Please make sure the transmission distance is not surpass the max distance;
- Please replace the failure device with a working one;
- If the problem still exist, please contact your local dealer.

RJ45 Making Method

Instruments to be used: wire crimper, network tester. Wire sequence of RJ45 plug should conform with EIA/TIA568A or 568B.

- 1. Shuck off about 2cm long the insulating layer, and bar the 4 pairs UTP cable;
- 2.Depart the 4 pairs UTP cable and straighten them;
- 3. Line up the 8 pieces of cables per EIA/TIA 568A or 568B.
- 4. Cut out 1.5 cm cable wrap and leave the bare wire:
- 5. Plug 8 cables into RJ45 plug, make sure each cable is in each pin.
- 6. Then use wire crimper to crimp it;
- 7. Follow the 5 steps above to make the another end, following the same sequence of the first plug;
- 8. Using network tester to test the cable whether is working.







EIA/TIA 568A

FIA/TIA 568B



attention

- When choose RJ-45 make sure if one end is EIA/TIA568A, the other end should also be EIA/TIA568A.
- When choose RJ-45 make sure if one end is EIA/TIA568B, the other end should also be EIA/TIA568B.