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VC-350PoE Ethernet Extender Pair

Description



VC-350PoE Single Port PoE Ethernet Extender is a high-speed Ethernet transmission device.

It can transmit Ethernet and Power signals together for PoE devices. It transmits data network signal up to 1,000 meters over any pair of 2-wire such as Cat5, coaxial cable, telephone line and power line, etc. The maximum physical bandwidth can reach 200Mbps.

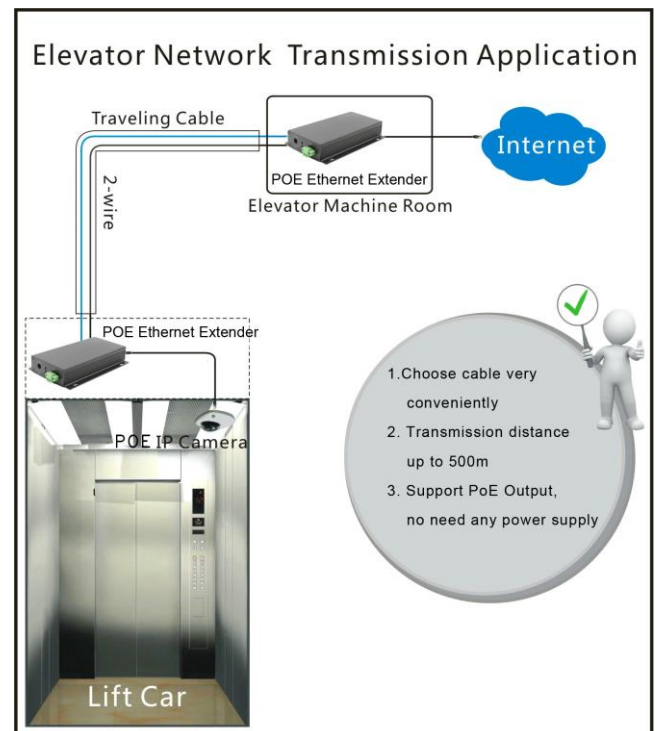
It supports PoC and PoE functions.

It consists of the master unit and slave unit. By PoE power equipment, it can directly supply power for the remote unit, supporting point to point and point to multi-point. It can greatly simplify the project cabling, applied to expand network system and transmit long distances of PoE device signals.

Application



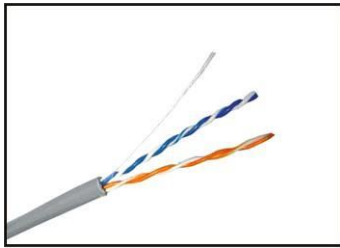
IP Video Surveillance



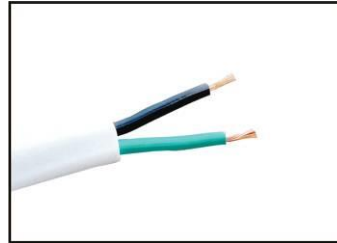
Features

- ◆ Max Transmission distance reach 1,000m (RVS 2×1mm²)
- ◆ Max physical bandwidth reach 200Mbps
- ◆ Support power supply over cable technology
- ◆ Transparent transmission, low power consumption and no adjustment
- ◆ Dip switch for power output: 12VDC/2A or PoE
- ◆ Built-in ESD protection circuit, in case of static damage

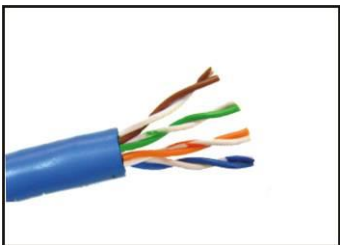
Cable Tips



Telephone line: Cat3 or above



Power line: RVV / RVS / RVVP / RVB 2x0.5mm² above




UTP Cable: Cat5 or above



Coaxial cable: RG59 or above

Accessories Spec

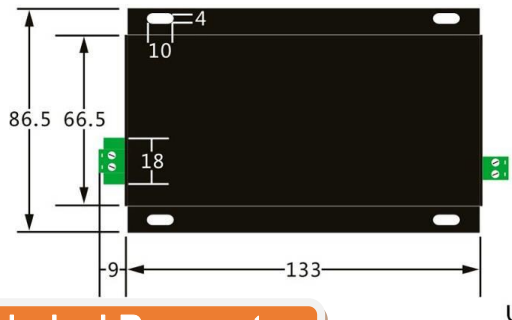
 <p>T568B</p>	1	□/W
	2	□
	3	G/W
	4	BL
	5	BL/W
	6	G
	7	BR/W
	8	BR

RJ45 port by EIA / TIA568B

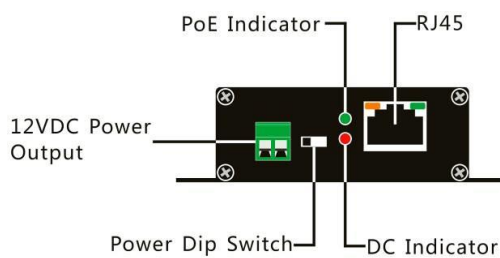


Power Adapter by 48 VDC
5mm female power port (Optional)

Dimension



Terminals

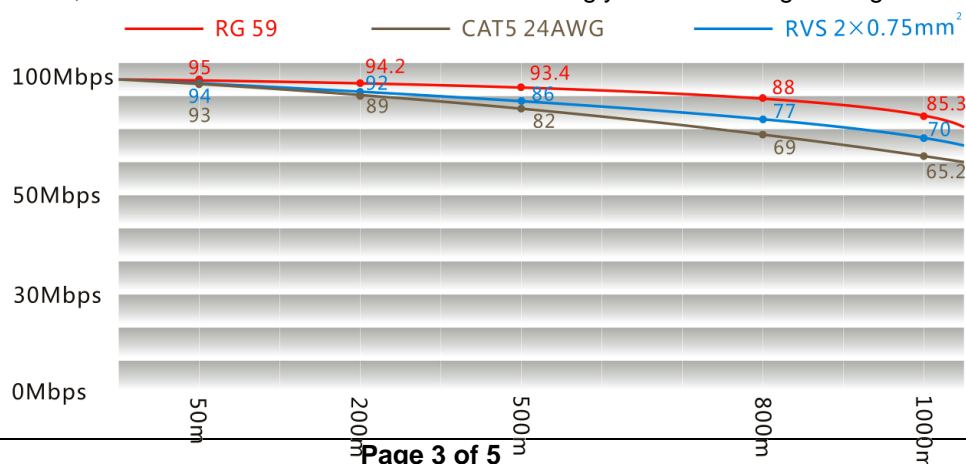


Technical Parameter

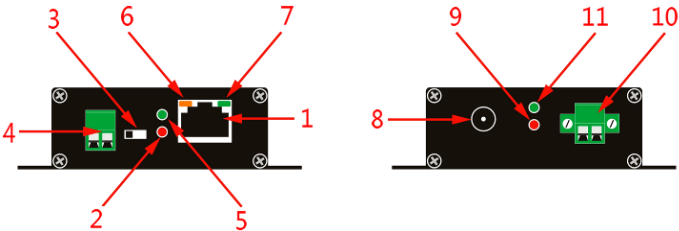
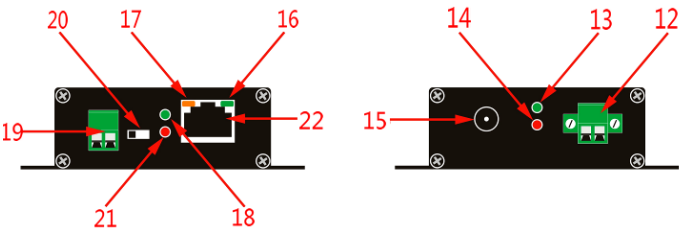
Power Input	DC Input		12VDC, 48 ~ 57VDC
	Power Consumption		≤3.5W / PC
Power Output	Dip Switch	RJ45/PoE output	Standard 48VDC; IEEE802.3af/at
		2P DC output	12VDC 2A (overload protection)
Transmission / Rate	Standard Compliance		IEEE802.3u
	Up Down Agreement		CSMA/CA
	Physical Speed		200Mbps
	Encryption Way		128-bit AES Encryption
Reliability	MTBF		> 31000 hours
Physical Characteristic	Dimension (L x W x H)		133mm x 86.5mm x 25mm
	Material		Aluminum
	Net Weight		220g/PC
Operating Environment	Working Temperature		-20°C ~ 60°C
	Working Humidity		<95% (Non-condensation)

Rate and Power Loss

VC-350PoE supports enhanced high speed network data transmission. The data differs from the cables types. Moreover, the longer distance of cable, the lower the transmission rate accordingly. The following testing details are for your reference:



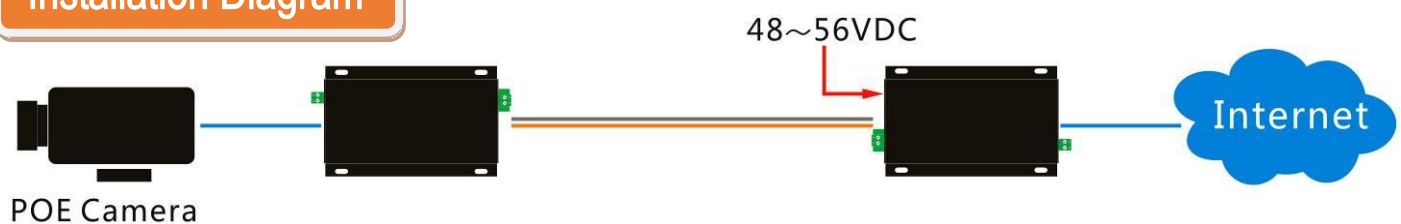
Installation Instructions

Master		Slave	
			
Step	Installation Instruction	Step	Installation Instruction
1	Connect Cat5 cable to RJ45 terminal (1) of master unit	12	2-wire cable connection terminal (12)
2	DC power output indicator (2)	13	Ethernet transmission indicator (13)
3	Power output mode dip switch (3)	14	Power indicator (14)
4	Lower voltage 12VDC power output terminal (4)	15	DC power output indicator (15)
5	PoE power output indicator (5)	16	Ethernet transmission indicator (16)
6	Line status indicator (6)	17	Line status indicator (17)
7	Ethernet transmission indicator (7)	18	PoE power output indicator (18)
8	DC power input terminal (8)	19	Lower voltage 12VDC power output terminal (19)
9	Power indicator (9)	20	Power output mode dip switch (20)
10	2-wire cable terminal (10)	21	DC power output indicator (21)
11	Ethernet transmission indicator (11)	22	Connect Cat5 cable to RJ45 port of slave unit (22)

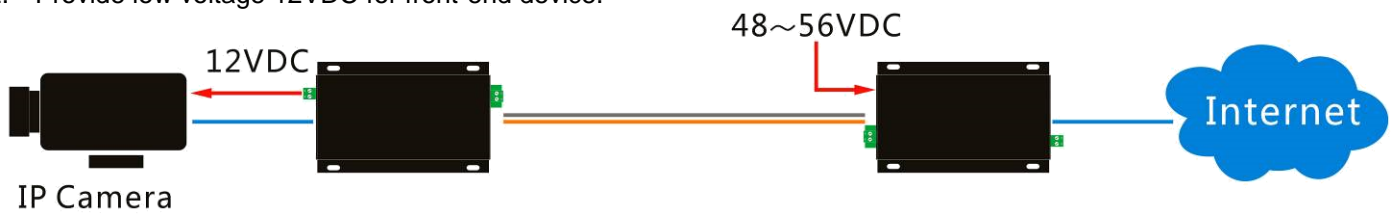
Power Supply Tips

1. Provide PoE Power Supply for front-end PoE device (The device only supports PoE Output, don't support PoE Input).

Installation Diagram



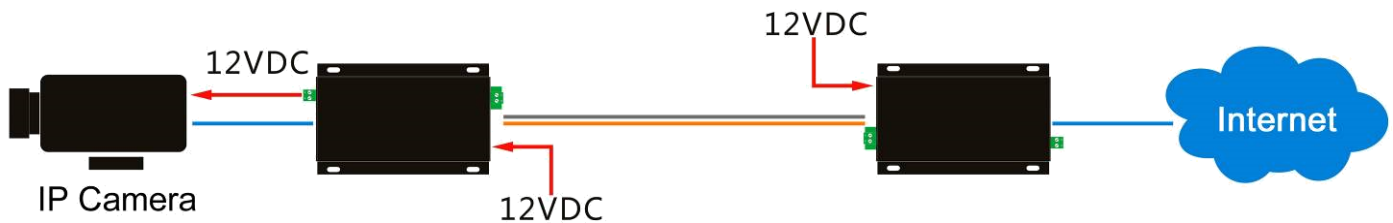
2. Provide low voltage 12VDC for front-end device.



3. When transmission distance is long, to avoid output voltage dropping too much, also provide 48~56VDC power supply for slave unit, at the same time master unit also get power from it.



4. When connect 12VDC power supply for master unit, because long distance causes output voltage to drop too much, it can't satisfy slave unit power requirement, also provide 12VDC power supply for slave unit as supplement.



Tips: The power consumption supports PoE / Non-PoE equipment power supply standard, due to the difference of line loss and transmission distance, it may not be able to meet simultaneously two kinds of power supply requirement, only through dip switch setting to choose one kind of power output mode.

Use Tips

When you use VC-350PoE-2P, please follow the below tips as a reference, in order to reduce the fault in the process of using and the inspection work.

1. The device supports auto-negotiation allocation master and slave. It also can be set master-slave side and grouped by the software. Each group (one point to multi-point communications group) only allows one Master, others are Slaves. Otherwise, the network data won't be able to transmit.
2. Signal transmission cable must be the copper cable. Other material cables will cause the decrease of signal transmission quality and distance.
3. Long-distance cable connections must be by standard connection method, such as welding or using connectors.
4. Make sure the electrode of transmission cable is consistent, otherwise, it is easy to cause the power failure.
5. Please choose matching power adaptor (**12VDC or 48~56VDC**).
6. There is no waterproof design for this product, please make sure that it is used in dry environment.
7. If device fails, do not disassemble or repair it by yourself. Please contact us timely.

Attentions: Specifications are subject to change without notice. Thank you for choosing us. For more details, please visit our website: www.rubyttech.de