

afi

120 Belmont Drive  
Somerset, NJ 08873-1204

american fibertek Phone: 732.302.0660 Fax: 732.302.0667



## UTPT-1 & UTPR-1 Series Instruction Manual

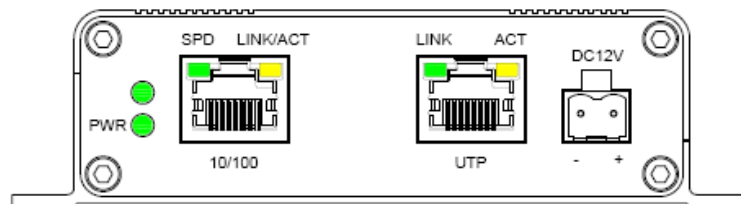
## UTPT-1 & UTPR-1

### Overview

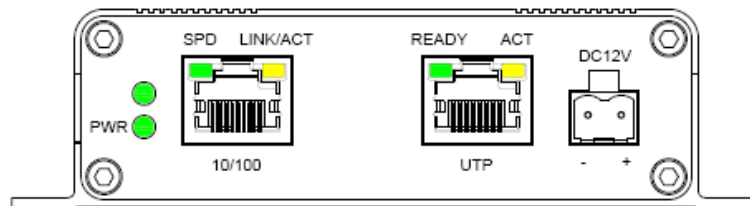
The UTP-1 Series product provides Ethernet Extension of 1-CH 10/100BASE-TX over UTP cable (600m max with Cat5e cable). The product is good for IP transmission between network devices which require transmission distance longer than the 100m (maximum distance of Ethernet transmission).

### Hardware

#### Transmitter



#### Receiver



### Connecting to Power

The extender is a plug-and-play device. Connect the DC power supply (12VDC output) to the power connector (2 pin terminal block), and then attach the plug into a standard AC outlet. The PWR LED of both transmitter and receiver will be on. After a while, the READY LED of the receiver will turn on.


### Connecting to UTP

Connect the RJ-45 of a Cat5e Cable to the UTP Port of the transmitter and receiver. If the transmitter and receiver are properly connected and communicated with each other, the Link LED (LINK) on the UTP port of the transmitter will turn (ON).

## Connecting to Ethernet

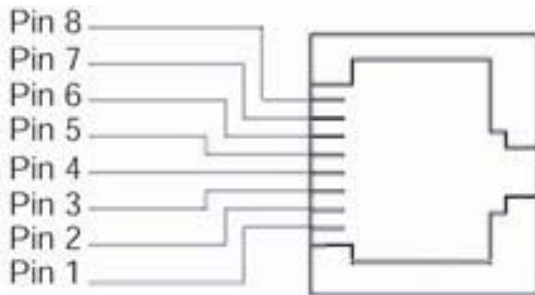
Connect the Ethernet cable from the IP camera to the Ethernet port (10/100) of the transmitter. If the cable is properly connected, the LINK/ACT LED of the Ethernet port of the transmitter will start flashing. Connect the Ethernet cable from the NVR or an Ethernet switch or similar equipment to the Ethernet port (10/100) of the receiver. If the cable is properly connected, the LINK/ACT LED of the Ethernet port of the receiver will start flashing. Then the ACT LED of the UTP port on the transmitter and receiver will start flashing.

## Power Connector

Description \ Pin	-	+	
Power Input	GND	12V (DC)	

## The 10/100Base-TX Connector

RJ45 pin assignment:

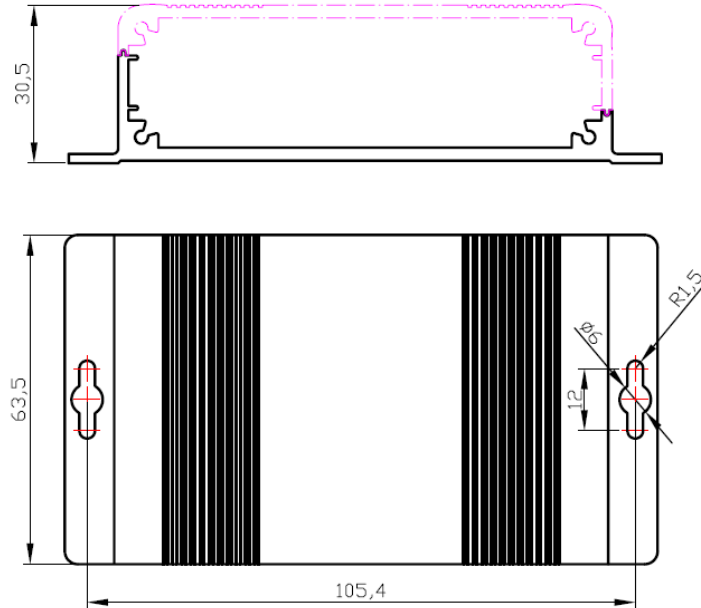


Pin	MDI	MDI-X
1	TD+	RD +
2	TD-	RD-
3	RD +	TD+
4	N/A	N/A
5	N/A	N/A
6	RD-	TD-
7	N/A	N/A
8	N/A	N/A

## Cable Connection

Interface Type	Support Description	Cable Type
<b>RJ45</b>	10BASE-T 100BASE-TX	Category 3 or above cable Category 5 or above cable
<b>UTP Port</b>	---	Cat5e Cable
<b>2-pin Terminal Block</b>	Power input (12VDC)	2-wire

## Dimensions Drawing of the Product (Unit: mm), (4.5x3.0x1.2 inches)



### LEDs:

LEDs	Colour	State	Indication	
PWR	Green	Steady	Power on, PWR stands for POWER	
		Off	Power off	
UTP	LINK(TX)	Green	Steady	The transmitter and receiver are communicating and linked.
		Off	The transmitter and receiver do not communicate or the Cat5 cable is disconnected.	
	ACT	Green	Flashing	Data is being transferred between the UTP ports
		Off	No data transfer between the UTP ports	
	READY (RX)	Green	Steady	The receiver is ready for data transfer
			Off	The receiver is not ready
<b>10/100 (Ethernet)</b>				
LINK/ACT	Green	Steady	A valid Ethernet connection established	
		Flashing	Transmitting or receiving Ethernet data, Act stands for ACTIVITY	
		Off	Neither valid Ethernet connection established nor transmitting/receiving Ethernet data	
SPD	Yellow	Steady	Ethernet Connection transferring at 100Mbps	
		Off	Ethernet Connection transferring at 10Mbps	