

## Model: TT-8001R

### Features

#### Single Channel Ethernet and Power Receiver over Single Cat5e/6 or above

- Ethernet transmission distance max up to 600 meters
- Power transmission distance max up to 600 meters
- Meet standards of IEEE802.3 10BASE-T, IEEE802.3u 100BASE-TX
- High speed modem technology, the physical bandwidth reaches up to 100Mbps (bidirectional)
- Multi-stage strong surge and lightning protection design
- Low power consumption, automatic error-correction coding technology
- Easy to install, plug-and-play mode, fast network connection
- Include extra 53VDC/1.85A power adaptor



### Overview


The TT-8001R is an Ethernet and power signal receiver over Cat5e/6 or above. The TT-8001R is used with TT-8001T-PoE, which is an ideal solution for reconstruction of old projects without any change of existing Cat5e/6. Both of Ethernet and power transmission distance max up to 600 meters.



With high speed modem technology, the physical bandwidth reaches up to 100Mbps (bidirectional). The TT-8001R has a built-in multi-stage surge and lightning protection to protect video equipment against damaging voltage spikes and provide noise immunity to ensure quality signals without disturbing "hum-bars".

The TT-8001R is widely applied to the fields such as network expanding system, network security system, network information distribution system, network upgrading & expanding system, railway and urban transportation, metallurgy and mining, field operations, etc.


## Quick Setup Guide

Step 1: Begin with all input/output devices turned off and power cables are removed.

Step 2: Connect  Ethernet RJ45 of TT-8001T-PoE with  Ethernet RJ45 of PoE cameras over one Cat5e/6 cable.

Step 3: Connect  Ethernet RJ45 of TT-8001T-PoE with  Ethernet RJ45 of TT-8001R over one Cat5e/6 or above.

Step 4: Connect  Ethernet RJ45 of TT-8001R with  Ethernet RJ45 of switch or NVR over one Cat5e/6 cable.

Step 5: Connect 53VDC/1.85A power adaptor into  Input DC 48~56V of FS-8001R.

Step 6: Make sure above connection is properly finished, then turn on the power.

When Green indicator is on, which indicates Ethernet signal works.

When Red indicator is on, which indicates power works.



### Note:

1. Max four transmitters can be cascaded.
2. Ethernet and power signals reach up to 600 meters when transmitter is used with receiver in pairs.
3. The distance between the farthest transmitter and receiver is not more than 600 meters when the transmitters are cascaded.
4. Additional power will be required if the power of PoE IP camera exceeds 12W within distance of 600 meters.

## Technical Specifications

Model		TT-8001R		
Product Name		Single Channel Ethernet and Power Receiver over Single Cat5e/6		
Power Supply	Power Adaptor	Input:100-240VAC      Output: 53VDC/1.85A		
	No-Load Power	1.5W(max)		
Ethernet Interface	Ethernet Interface	RJ45 Interface		
	Transmission Distance	100m (max) over cat5e/6		
	Standards	IEEE802.3 10BASE-T, IEEE802.3u 100BASE-TX		
	Physical Speed	100Mbps(bidirectional)		
P1 Interface	Impedance	100Ohm		
	Maximum Distance	600m(Cat5e/6 or above)		
Transmission Parameters	Distance	Bandwidth	Power(with power adapter at TX over Cat5e cable)	Power(without power adapter at TX over Cat5e cable)
	30m	100Mbps	60W	43.5W
	100m	100Mbps	57W	41W
	200m	100Mbps	54W	38W
	300m	100Mbps	50W	35W
	400m	90Mbps	46W	31W
	500m	80Mbps	42W	27W
	600m	60Mbps	38W	23W
LED Indicators	Green Light	Cat5e/6 connecting indicator		
	Red Light	Power indicator		
Lightning Protection Grade	Network Port	Differential Mode:2KV      Common Mode:4KV Executive Standard: IEC61000-4-5		
	Device	contact discharge: 3 grade      air discharge: 3 Grade Executive Standard: IEC61000-4-5		
Mechanical	Dimensions(L*W*H)	123*54*24mm		
	Housing	Aluminum		
	Body Color	Black		
	Weight	122g		
Environmental	Operating Temperature	0~55		
	Storing Temperature	-25 ~85		
	Relative Humidity	0~95% (non-condensing)		

## Applications

- Security Monitoring System
- Multimedia Network Teaching System
- Medical Monitoring Display System
- Industrial Automation Control System
- Banking, securities, financial information display system
- Remote Network Server Monitoring
- Department Store Security
- Casino Security
- Hospitals, Airports and banks
- School Campuses

## Application Diagram

