Model: TT-8001T-PoE

Features

Single Channel Ethernet and Power Transmitter over Cat5e/6 or above

•Support cascade mode; maximum four transmitters can be cascaded

•Ethernet transmission distance max up to 600 meters

•Power transmission distance max up to 600 meters with max 12W output power

•Meet standards of IEEE802.3 10BASE-T, IEEE802.3u 100BASE-TX

•Support IEEE802.3af/at/bt standard; automatically detect and recognize standard PD equipment

 and provide power to PD equipment, max 60 watts of output

•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

Overview

The TT-8001T-PoE is an Ethernet and power signal transmitter over Cat5e/6 or above with max 60 watts of output. The TT-8001T-PoE is used with TT-8001R, which is an ideal solution for reconstruction of old projects without any change of existing Cat5e/6 or above. Both of Ethernet and power transmission distance max up to 600meters. The TT-8001T-PoE is able to provide power to PoE cameras over network cable.

With high speed modem technology, the physical bandwidth reaches up to 100Mbps (bidirectional). The TT-8001T-PoE 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-8001T-PoE 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 TT-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.

[L / P]

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 power of POE IP camera exceeds 12W within distance of 600 meters.

Technical Specifications

Model	TT-8001T-PoE		
Product Name	Single Channel Ethernet and Power Transmitter over Cat5e/6 or above		
Power Supply	Power	Input:53VDC/1.85A (Optional)	
	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, IEEE 802.3af/at/bt	
	Physical speed	100Mbps(bidirectional)	
P1/P2 Interface	Impedance	100Ω	
	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 or above 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	129g	
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