Model: HD-EPOC101R

Features

Single Channel Ethernet and Power Receiver over Single Coaxial Cable

- Ethernet transmission distance max up to 1000 meters
- Power transmission distance max up to 1000 meters
- Meet standards of IEEE802.3 10BASE-T, IEEE802.3u 100BASE-TX
- Support IEEE802.3af standard; automatically detect and recognize IEEE802.3af standard PD equipment and provide power to PD equipment
- 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/1.25A power adaptor

Overview

The FS-EPOC7001R is an Ethernet and power signal receiver over single coaxial cable. The FS-EPOC7001R is used with FS-EPOC7001T-PoE, which is an ideal solution for reconstruction of old projects without any change of existing coaxial cable. You needn't change coax into network cable when you want to change analog cameras into IP cameras. Both of Ethernet and power transmission distance max up to 1000 meters.

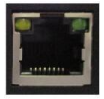
With high speed modem technology, the physical bandwidth reaches up to 100Mbps (bidirectional). The FS-EPOC7001R has a built-in multi-stage surge and lightning protection to protect video equipment against damaging voltage spikes and provide noise immunity to ensure quality signals without disturbing "hum-bars".

The FS-EPOC7001R 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 

of FS-EPOC7001T-PoE with 

of PoE cameras over one cat 5e/6 cable.

Step 3: Connect 

of FS-EPOC7001T-PoE with 

of FS-EPO7001R over one coaxial cable.

Step 4: Connect 

of FS-EPOC7001R with 

of switch or NVR over one cat 5e/6 cable.

Step 5: Connect 53VDC/1.3A power adaptor in 

of FS-EPOC7001R.

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 1000 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 1000 meters.

Technical Specifications

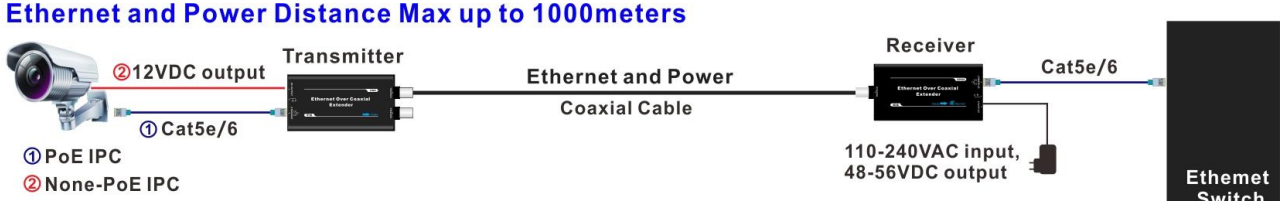
Model		HD-EPOC101R
Product Name		Single Channel Ethernet and Power Receiver over Single Coaxial Cable
Power Supply	Power Adaptor	Input:100-240VAC Output: 53VDC/1.25A
	No-Load Power	1.5W(max)
RJ45 Interface	Ethernet Interface	RJ45 Interface
	Transmission Distance	100m (max) over cat5e/6
	Standards	IEEE802.3 10BASE-T, IEEE802.3u 100BASE-TX, IEEE 802.3af
	Physical Speed	100Mbps(bidirectional)
Coaxial Cable Interface	Coaxial Cable Interface	BNC connector
	Coaxial Cable Impedance	75Ohm
	Maximum Distance	1000m (SYV75-5 Cable)
Transmission Distance	Distance	Bandwidth
	300m	100Mbps
	500m	90Mbps
	800m	70Mbps
	1000m	55Mbps
LED Indicators	Green Light	Coaxial cable 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： IEC61000-4-2
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

A. Ethernet and Power Distance Max up to 1000meters



B. Ethernet and Power Distance Max up to 600meters