



## Product introduction

Telephone voice over fiber optic transceiver adopts advanced all-digital video and optical fiber transmission technology. This avoids the shortcomings of analog frequency modulation, phase modulation, and amplitude modulation optical transceivers that are prone to inter-modulation distortion interference, crosstalk between two telephone lines, and product performance that is easily affected by environmental factors. Transmit calls from 1 to 8 channels on a single-core optical fiber in real time, without distortion and with high quality. The plug-and-play design makes installation simple and requires no on-site adjustments. Its optical modules and core circuits adopt imported industrial-grade chips, anti-electromagnetic radiation device and other technologies, with high stability. Both RJ45 and fiber optic interface comply with international standards, ensuring that the product can operate continuously without problems for a long time in various complex environments. Through the all-digital uncompressed transmission method of telephone signals, the all-digital series optical transceivers have the ability to ensure high-quality signal transmission indicators no matter how complex the optical transmission link conditions are. The all-digital telephone optical transceiver supports single-mode or multi-mode optical fiber transmission, and the optical interface type FC/ST/SC is optional.

## Product feature

- Extend PCM Voice Telephones and Network signal: 4 Independent telephone lines + 1 Fast Ethernet (10/100Mbps) port through same fiber optic cable to far end
- Transmission distance for Single-mode fiber for a long distance up to 20 km; Multi-mode fiber for a distance up to 500m
- Ethernet standards IEEE802.3,1000Base-TX, 1000Base-FX, IEEE 802.3, IEEE 802.3U, IEEE 802.3X, IEEE 802.1d
- Support full-duplex flow control or half-duplex back pressure flow control
- Supports 10/100BASE-T auto-negotiation and auto-MDI/MDI-X
- 6 performance monitoring LEDs
- After-sales service is complete, providing up to three years of quality assurance and maintenance services

## Packing list

- PIN-DH08E-RJ11
- Power adapter
- User manual & warranty card

## Application

- Urban Intelligent Traffic Monitoring System (ITS)
- Tunnel communication intercom and monitoring system
- Remote multimedia teaching/campus monitoring
- Video and telephone conference transmission system
- Security monitoring system for large factories and mines
- Long distance radio and television transmission system
- Building video intercom control system
- Highway monitoring/communication system
- Integrated wiring system
- Community intelligent monitoring system
- Military communications
- Electrical/Hydraulic Safety Monitoring System

## RJ11 interface

Physical interface terminal: RJ11

FXS phone port: connect to telephone

Ring voltage: 75V

Ring frequency: 25HZ

Second-wire input impedance: 600Ω (off-hook)

Return loss: 40 dB

FXO switch interface: connect to program-controlled switch

Ring detection voltage: 35V

Ring detection frequency: 17HZ-60HZ

Second-wire input impedance: 600Ω (off-hook)

Return loss: 40 dB

Lightning protection characteristics: IEC61000-4-2 (ESD): Air - 15kV, Contact - 8kV

Lightning protection characteristics: IEC 61000-4-4 (EFT): 40A - 5/50ns

Lightning protection characteristics: IEC 61000-4-5 (Surge): 24A, 8/20μs - Level 1(Line-Ground) & Level 1(Line-Line)

## 10/100Mbps Ethernet port

Physical interface: RJ-45 port

Data rate: 10/100Mbps

Support protocol: IEEE 802.3 100Base-TX, 10/100/1000M Ethernet standard

Communication working mode: full duplex or half duplex

Support AUTO-MDIX (cross line straight line adaptive)

Lightning protection characteristics: IEC61000-4-2 (ESD): Air - 15kV, Contact - 8kV

Lightning protection characteristics: IEC 61000-4-4 (EFT): 40A - 5/50ns

Lightning protection characteristics: IEC 61000-4-5 (Surge): 24A, 8/20 $\mu$ s - Level 4(Line-Ground) & Level 4(Line-Line)

Lightning protection characteristics: IEC61000-4-2 (ESD): Air - 15kV, Contact - 8kV

Lightning protection characteristics: IEC 61000-4-4 (EFT): 40A - 5/50ns

Lightning protection characteristics: IEC 61000-4-5 (Surge): 24A, 8/20 $\mu$ s - Level 1(Line-Ground) & Level 1(Line-Line)

## Environmental requirements

Ambient temperature: -20 °C ~ +70 °C

Storage temperature: -60°C~+100°C

Relative humidity: 0~95% (no condensation)

Rated power supply voltage: AC85-260V/50Hz/60Hz

MTBF:  $\geq$  100,000 hours

Power consumption: 10W (Input: DC5V 2A)

## Specifications

Model	PIN-DH08E-RJ11
Product	8 port RJ11 telephone and Ethernet over fiber optic extenders
Fixed port	1*SC/FC fiber optic interface 8*RJ11 1*100Mbps RJ45
Data speed	10/100Mbps
Standard	IEEE802.3 (10BASE-T) IEEE802.3u (100BASE-TX) IEEE802.3u (100BASE-FX) IEEE 802.3x
PoE	No
Auto MDIX	Yes
Fiber Operating Mode	Half/Full-Duplex
Wavelength	1310/1550nm or 1550/1310nm
Transmission Distance	Single mode: 20KM Multi-mode: 500meters
Power supply	DC5V 2A (AC110~240V)

Operating temperature/Humidity	0~+50°C; 10%~90% RH non-condensing
Storage temperature/Humidity	-10~+65°C; 10%~90%RH non-condensing
Product size (L*W*H)	185*105*25mm
Installation	Desktop/ wall mount installation
Casing	Metal
Warranty	Whole device for 1 year (Accessories not included)