

IVSEC Transmitter/Receiver

Single-Port Long Reach Ethernet over Coax Extender



Transmitter

Receiver

Features

- Supports IEEE802.3, IEEE802.3u standards
- Supports IEEE802.3af and IEEE802.3at power supply standards
- Port: 1*RJ45 10/100Mbps, 1*BNC
- Supports RG59 coaxial cable: 400m/100Mbps, 1000m/10Mbps
- Supports MDI/MDIX self-adaption
- Supports long range power supply transmission via coaxial cable

Product Overview

The product is divided into transmitter and receiver. It is designed to work as a type of converter from RJ45 to BNC port, which supports long range power supply transmission via coaxial cable. It provides one BNC coaxial port and one RJ45 port. The product is equipped with two transmission modes which are 100Mbps and 10Mbps. It can be modified according to the transmission distance.

Technical Specification

| Type | Transmitter | Receiver |
|------------------------|---|----------|
| Function Port | 1*10/100 Mbps Base-TX 1*BNC | |
| Power Consumption | <2W | |
| Transmission Bandwidth | RG59 coaxial cable: 400m/100Mbps, 1000m/10Mbps | |
| PoE Protocol | IEEE802.3af, IEEE802.3at | |
| Network Standard | IEEE802.3, IEEE802.3u, IEEE802.3x | |
| Lightning Protection | Common Mode 4KV Differential Mode 2KV | |
| Operating Temperature | -30°C-65°C | |
| Operating Humidity | 5%~95% | |
| Weight | 61g | |
| Dimension (W×D×H) | 79mm×52mm×23mm | |

Take RG59 as an example (Max. DC resistance < 5.0Ω/100m)

| | | Supports with 48V | Supports with 53V |
|-------|-------------------|-------------------|-------------------|
| 100m | Bandwidth (Mbps) | 100 | 100 |
| | Load Capacity (W) | 21 | 25.5 |
| 200m | Bandwidth (Mbps) | 100 | 100 |
| | Load Capacity (W) | 15 | 24 |
| 300m | Bandwidth (Mbps) | 100 | 100 |
| | Load Capacity (W) | 11 | 19 |
| 400m | Bandwidth (Mbps) | 100 | 100 |
| | Load Capacity (W) | 9 | 16 |
| 500m | Bandwidth (Mbps) | 10 | 10 |
| | Load Capacity (W) | 7 | 13 |
| 800m | Bandwidth (Mbps) | 10 | 10 |
| | Load Capacity (W) | 5 | 8 |
| 1000m | Bandwidth (Mbps) | 10 | 10 |
| | Load Capacity (W) | 4 | 6 |

Diagram

