



Outdoor EoC Master

**User Manual**

**TCEOC9001**

**Digital Innovations**

### Preface

Thank you for choosing Coaxial Broadband product. It is our honor for you to become our customer. This product is used to carry Ethernet data signal through coaxial cable. After broadcast and television operator complete television and data fiber to the Premises (FTTB), this product helps realize household coaxial cable data, television signal transmission. It is widely used in broadband Internet access, IP TV, voice over IP and other service.

Please read this manual carefully before you install, use and maintain the product. If you have any problem, please contact our customer service, we will provide remote technical support service for you.

#### Product list:

- |               |   |
|---------------|---|
| ● Device      | 1 |
| ● User Manual | 1 |



**Note: if you find the packing list of items and equipment does not match, please contact the supplier in time.**

## Product Introduction

This EOC (coaxial Ethernet) adopts Homeplug AV technology, which has the features of high speed, high receive sensitivity, high stability and so on. It is suitable for long distance transmission, high rate and high stability requirements place. The device not only has the advantages of single way EOC, but also can respond flexibly to variety of corridor applications to realize the transformation of one-way ordinary television network (CATV) network to the bidirectional network under the condition of not change existing TV network equipment and wiring. Products of the main features are as follows:

Item	Description
<b>Standard</b>	HomePlug-AV P1901
<b>Interface</b>	1*10/100/1000Base-T <b>Ethernet Port</b>
	1*Console management Port
	1 * MGMT Port
<b>RF Feature</b>	RF interface: 4*( F type Metric interface, 2*TV input, 2/*TV+ Data out
	Modulation Mode: OFDM 4096/1024/256/64/16QAM,QPSK,BPSK
	MAC Protocol: CSMA/CA、TDMA
	Working Frequency: 7.5~67.5 MHz (Channel bandwidth: 60 MHz)
	Out-off-Band Rejection: $\geq 50$ dB
	RF Interface Impedance: $75\Omega$
	RF Interface Reflection Loss: $\geq 16$ dB (87 MHz~1000 MHz)
	In-band flatness: $\pm 1$ dB (8MHz is less than $\pm 0.5$ )
	Insertion Loss: $\leq 1.5$ (87~1000 MHz)
	Output Level:120dBuV
<b>Software Function</b>	Transmission Loss: 90 dB
	Support 802.1Q VLAN
	Support loop detection
	Support QoS
	Support Slave configuration
	Support Slave access authentication
	Bidirectional 128 bits AES encryption transmission packet
	Support isolation based on Slave
	Support isolation switch based on Slave
	Support MAC address dynamic learning
	Support black and white list
	Support storm control
	Support multi-cast IGMP Snooping function (v1/v2/ v3)

	Support in-band management
	Support remote upgrade
	Support Web、Telnet、Console and SNMP（V1 V2 V3）web management
<b>Equipment Performance</b>	Max. number of concurrent Slave: 64
	Max on line slaves at the same time: 32
	MAC layer throughput > 300 Mbps（1518 bytes packet）
	Forwarding latency: <30 ms（512 bytes packet, 80% max. throughput）
<b>Compatibility feature</b>	Compatible with INT64 slave
	Compatible with other manufacturer's INT64 slave
	Compatible with manufacturer's INT74 slave
<b>Equipment Performance</b>	Operation Temperature: -25 ~ 60℃
	Operation Humidity: 10% ~ 90%, Non-condensation
	Storage Temperature: -30℃ ~ 70℃
	Storage Humidity: 5% ~ 90%, Non-condensation
<b>Physical Features</b>	Reliability: Average trouble-free working hours（MTBF） $\geq 40000$ hour
	Electromagnetic compatibility: GB9254-2008 Class B GB/T 17618-1998
	Dimension: 230x130x100mm
	Protection: waterproof, lightning protection, dust prevention
	Product characteristics: corridor, outdoor（die-casting aluminum shell）
	IP protection level: IP67
	Lightning protection level: 4, 4 kV lightning protection（power supply module, RF interface）
	Equipment grounding
<b>Power Supply</b>	Local power supply: AC220V
	Support coaxial-cable power supply: AC60V（Optional）
	Over current capacity :10A
	Power Consumption: $\leq 5W$

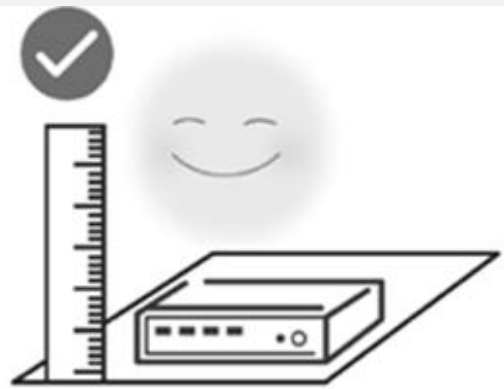
## Installation Instructions

Coaxial broadband masters are installed in weak current box of corridor or outside; the working environment is relatively poor. To ensure the stable long-term work, please follow the below environmental requirements to install the equipment:

1. Keep away from heat, keep ventilated;
2. Place the device on a flat surface;
3. Keep away from dust, keep dry.



Use equipment rated power adapter




Place the device on a flat surface



Keep away from heat, keep ventilated

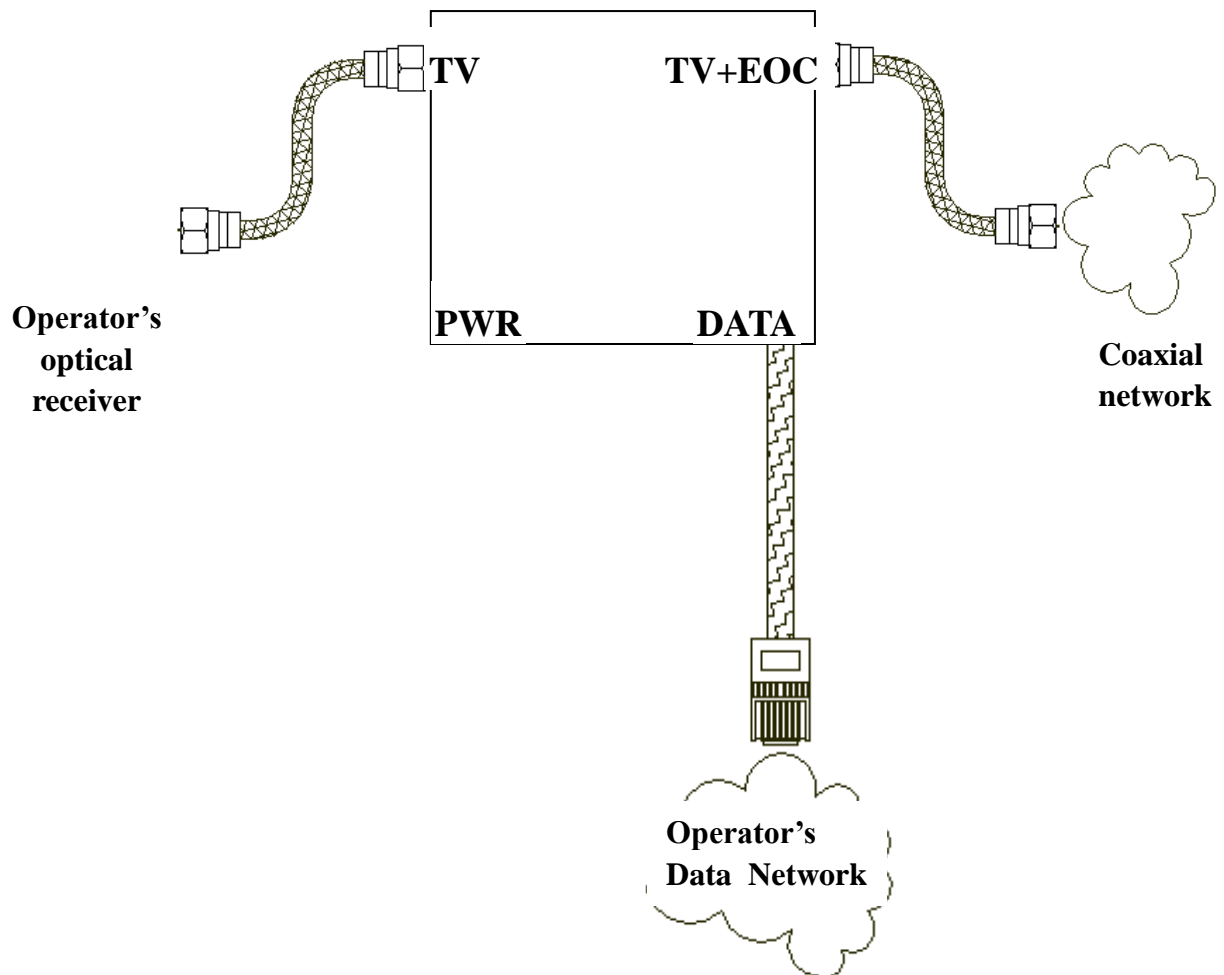


Keep away from dust, keep dry

 To ensure normal work, please use the device according to instructions !

## Installation

### 1 Equipment connection diagram



Above is the typical application of the product, please construct according to the picture above. TV signal from optical receiver (TV In) combine with the modulated data signal (TV+EOC Out), then sent to the corridor coaxial cable network. Data port is used to connect to operators' data network. Debug port (Console) is used to configure product parameters, configuration method please check software configuration manual. Power is supplied by **AC110V** or AC60V adapter.

## 2 Wiring instructions

Port	Port type	Function
TV Signal *2	Imperial -5F	TV Signal input port. Used to connect to corridor optical receiver
Composite signal *2	Imperial -5F	Signal output port, output TV/Data composite signal User to connect to coaxial cable network
Data signal	RJ45	10M/100M/1000M Ethernet port, Used to uplink operator network。 (MGMT management port; ETH data port)
Console	RJ45	Debug port, Command line Port, baud rate 115200。
Power	AC/Imperial -5F	AC110V/AC60V

## Warranty Card

<b>Product model</b>		<b>MAC</b>	
<b>Purchase date</b>		<b>Remark</b>	
<b>Customer name</b>		<b>Address</b>	
<b>Telephone</b>		<b>Mobile phone</b>	

### Warranty Service Terms:

- I. In case of quality problems with the product within 15 days from the date of sale, the users are entitled to return the product unconditionally. (The product and external package should be free of damage or stain).
- II. The warranty period of the product is one year. For the quality problems occurred in the warranty period, we provide free repair services. After the quality warranty period, we will charge for the accessories appropriately.
- III. In case of damages caused by improper use, accidental damage or disassembly, or alteration to the warranty card, the warranty does not apply.
- IV. The user is required to well keep the warranty card. In case of loss, we do not re-issue another one.
- V. The warranty card is valid with the seal of the distributor.

<p>Seal</p> <p>Valid after completing and sealing</p>
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