



## EOC master

### 1. Introduction

EOC Master is developed based on HomePlug AV/IEEE P1901 standard. Bidirectional transformation is based on the original HFC network, simultaneously transmit TV and data signals over the coaxial cable, and realize TV and broadband data access simultaneously, with advantage of the long distance transmission, good network adaptability and high bandwidth. It's used with EoC slave together in the CATV cable network to transmit and receive Ethernet signals without affecting the original CATV signals. It is the best choice to develop digital TV network of radio and television system.

### 2. Feature

- (1) Support point to multipoint. At most 1 to 253.
- (2) High speed: Adopt high-speed multi-carrier modulation technology, MAC layer rate up to more than 300Mbps.
- (3) Strong anti-interference ability: OFDM modulation, multi-carrier technology ensures to transmit the data stably in the noise environment.
- (4) High security: Adopt 128 bit AES data encryption, effectively protect the data transmission security.
- (5) Long transmission distance: The maximum attenuation distance of the coaxial network is 1000m.
- (6) Rich network management: Support SNMP protocol, manage EOC Master and Slave by the remote NMS, local WEB or CLI interface
- (7) Simple application: Plug-and-play operation for easy setup and installation.

### 3. Technical Parameters

Parameters	Specification
Channel frequency	7.5~65MHz
Output Power	≥105dBμV
Receive Sensitivity	25-30dBμV
RF Connector	F type Female socket(metric/ English system)
Output impedance	75Ω
Modulation mode	OFDM BPSK QPSK 16/32/64/128/256/512/1024/2048/4096QAM The number of subcarrier: 2880
Work mode at MAC layer	CSMA/CA
Data rate	500Mbps
Throughput rate	350Mbps
Eth Connector	RJ-45
Standard	IEEE802.3, IEEE802.3af, 10/100/1000Base-T
Smart bit	64Byte~1518Byte

VLAN	IEEE802.1Q (VLAN tagging)
Security	128-bit AES data encryption
Qos	Support 802.1P Support the priority number:8 Support different business isolation for different users Support different business isolation for one user Support the isolation between business and software upgrading
EoC SNMP Management	Meet HomePlug AV/IEEE P1901 relative standard Support SNMP protocol, manage EOC Master and Slave by the remote NMS, local WEB or CLI interface
Power supply	Master: AC220V/AC60V /DC12V Slave:DC12V
Operating Temp.	-20°C ~ +70°C
Power consumption	<10W
Relative Humidity	Less than 95%
Gas pressure	70kpa~106kpa
No causticity gas, no dust, no magnetic field disturb	
In the real operation, there is no filter noise problem. when working at $-20^{\circ}\text{C} \sim +70^{\circ}\text{C}$ , no hang.	

### EoC Master Indoor type, DC12V.

