

EoC Indoor Master



1. Summary

EoC Indoor Master is the active EoC network concentrator that design and develop based on HomePlug AV/IEEE P1901 technique. Bidirectional transformation on the basis of original HFC network, simultaneously transmit television and data signals on one coaxial cable, realize TV and broadband data simultaneously access. Have advantages such as long distance transmission, good network adaptability and high bandwidth. It is the first choice to develop digital TV network of radio and television system.

2. Performance Characteristics

- ◆ High speed: Adopt high-speed multi-carrier modulation technique, physical layer rate up to 700Mbps.
- ◆ Strong anti-interference ability: OFDM modulation, multi-carrier technology ensures stable data transmission in the noise environment.
- ◆ High security: Adopt 128 bit DES data encryption, effectively protect the data transmission security.
- ◆ Strong network adaptability: Adopt standard interface, signal can transparently transmit to amplifier, tap etc equipment, and realize fast installation and debugging.
- ◆ Rich service application types: Support EoC link multicast monitor, multicast manage the whole EoC network. Support service priorities distinction based on IP-TOS, ensure the time-sensitive application of VOD and VoIP. Support VLAN (802.1Q) standard, ensure privacy requirements.
- ◆ Strong network management function: Support SNMP protocol, through remote NMS, local WEB or CLI interface to manage the device. Support online configuration and offline configuration; support automatic configuration and batch configuration of network node. Provide support for the effective and stable operational network.
- ◆ Long transmission distance: The maximum attenuation distance of the coaxial network is 500m.

3. Technical Parameters

Parameters	Specification
Standard	Ethernet standard IEEE802.3, IEEE802.3X, IEEE802.3u
EoC SNMP	Meet HomePlug AV/IEEE P1901 relative standard
Protocol	CSMA/CA
Transmission rate	Physical layer rate: 700Mbps, MAC layer throughput: 350Mbps
Product Type	Indoor CBAT
Interface Description	RF port: 2 TV input + 2 mixed-signal output port Ethernet: 2 gigabit uplink ethernet ports Debug: 1 console port + 1 usb device port
Frequency range	7.5~65MHz
Transmitting power	≤114 dBuV
Modulation technique	OFDM anti-noise modulation 1024/256/64/16/8-QAM, QPSK, BPSK, ROBO
Transmission distance	<500m (<60dB attenuation)
Security	128-bit DES data encryption
VLAN	IEEE802.1Q (VLAN tagging)
QoS	Support ToS and CoS data packet classification
Flow control	Support port-based flow control
Management	Support SNMP protocol, through remote NMS, local WEB or CLI interface to manage the device; support online configuration and offline configuration; support automatic configuration and batch configuration of network node and provide rich log and alarm function.
Concurrent users	CNU concurrency number up to 64
Power consumption	<6W
Operating power supply	12V/1A DC Power Adapter input
Environmental requirements	<ul style="list-style-type: none"> ● Operating temperature: 0°C~50°C ● Storage temperature: -20°C~70°C ● Operating humidity: 10%~90% (No condensation) ● Storage humidity: 5%~90% (No condensation)
Operating system	Support Windows 98SE, Windows 2000, Windows ME, Windows XP 32/64 bit and Vista 32/64 bit