

PCBM710 series independent outdoor master User manual

1. Brief

PCBM710 series independent master(based at AR7411 chip) is the multi-media access device which is based on HomePlug AV technique, the master make Ethernet signal modulate, and mixed it with TV signal, transmit the multi-media signal to terminal through the CATV coaxial network.

2. Feature

PCBM710 adopt plug and play design, set up very easily, no need adjustment, the working status and frequency may auto scan and allocated.

2.1 Common feature

- Aluminum die-casting housing, excellent water-proof and heat dissipation performance
- Compatible with mature technique HomePlug AV(IEEE P1901)
- Physic rate is up to 500Mbps
- OFDM modulation technique, have good anti-noise performance
- Upstream and downstream transmit symmetry
- Support 10/100/1000Base-T/Tx Ethernet interface, support MDI/MDIX
- Comply with many kinds of network protocols
- Plug and play, setup program is not request
- It is no need to change the existing HFC network by using taps/splitters.
- Support VLAN, total QoS quality guarantee
- Support MIB library based at broadcast and television standard, support SNMP v1/v2/v3

2.2 Special function

- Multi-module design, high shielding performance
- Support modules upgrade
- Provide 1/2 way TV input
- Provide 1/2 way cable signal output
- AC220V or AC60V power is option

3. Primary allocation

PCBM710 master's default IP address: 192.168.1.228, default user name and password: admin/password.
Connect the device to PC, ensure this PC has the network segment's address, open IE, input 192.168.1.228 at the address bar, enter into the system, input user name and password, log on, Then make the setting as per the left guide bar. If want to recover the default setting, please press the "reset" button while power on.

4. Common faults and indicator description

LED	Color	status	description
PWR	green	light	Power is normal
		dark	Power or module is abnormal
CAB	green	green light	Cable interface connected normal
		dark	Cable interface connected abnormal
ETH1	green	light	Ethernet interface connected but no communication
		flash	Ethernet interface has DATA transceiving
		dark	Ethernet interface un-connected
ETH2	green	light	Ethernet interface connected but no communication
		flash	Ethernet interface has DATA transceiving
		dark	Ethernet interface un-connected

According to the above table, the user may make the initial analysis and alarm adjustment, if occur the problem which don't list, please contact our technique department.

5. Specification

Item	Description
Standard	IEEE802.3, IEEE802.3x, IEEE802.3u, IEEE802.11
EoC protocol	Comply with HomePlug AV standard
Protocol	CSMA/CA
Physical rate	500Mbps
Modulation method	support 4096/1024/256/64/16/8-QAM、QPSK、BPSK,ROBO
Data channel	Support data transmit between ethernet and coaxial cable network
Transmission distance	1 km through coaxial cable
Security	128-bit AES encryption
VLAN	IEEE802.1Q(VLAN tagging)
QoS	Support ToS and CoS package classification
flow control	Support flow control based at port
SNMP	SNMPv1v2v3
802.1X	Support IEEE802.1X access certification
Watchdog	Support monitoring CPU by watchdog
Management	Support user management based at SNMP,WEB and CLI
LED light	Power, Ethernet, Cable
Interface	1/2 TV interface
	1/2 RF interface
	2 Gbps ethernet ports
	1 RST button
Power consumption	≤9W
Power supply	Input : AC220 / AC60V
Dimension	275mm×200mm×125mm
Weight	3.5KG
Operation Temperature	0~45℃
Storage Temperature	-20~70℃
Operation humidity	10% - 90% (non-condensing)