CD7201 - Indoor EOC Master

Product Overview

CD7201 is the EOC master based on HomePlug AV Solution for Ethernet access on coax. It works together with EOC Slave which is based on HomePlug AV Solution. It provides coax cable Ethernet Access to users based on CATV coax cable which has layer-two Ethernet data transmission channel.

Cd7201 uses INT7410 chipset and has OFDM Modulation technology which has highly interference resistance. It takes 7.5MHz-65MHz frequency and 500 Mbps Physical layer speed. The max MAC layer bandwidth is 300 Mbps.

Cd7201 has no influence on CATV service and can be convenient constructed without changing current CATV network.

One Master Equipment could support 253 slaves at most. The network structures can be star or tree topology.

CD7201 is indoor master. It takes up small space and has light weight, so it can be put in corridor or outdoor waterproof box.

Function Features

- Low frequency modulated EOC master, uses INT7410 chipset, HomePlug AV solution.

Shenzhen C-Data Technology Co.,Ltd.
Address: Flat 6, Bldg 4, South 2 of Honghualing Industrial Zone, Liuxian Road, Xili Town, Shenzhen, Guangdong, China (518055)
Tel: +86-755-26014509/4710/4711 Fax: +86-755-26014506
Website: www.cdatatec.com

Edition: 20
Update: 7/9/2012

- Take up 7.5~65 MHZ frequency and has no influence on CATV service.
- Physical layer speed is 500 Mbps and MAC layer bandwidth can be 300 Mbps at most.
- One master could support 253 slaves at most.
- Support encryption of uplink and downlink data.
- Support slave isolation.
- Support VLAN and QOS configuration.
- Dynamic bandwidth allocation.
- Support broadcast storm limitation.
- Support database statistic.
- Auto transmission of slave configuration from uplink EOC master.
- Support in-band and out-band network management.
- Support WEB, CLI and SNMP management.
- Support on-line upgrading.

Technical Specification

Items	Specification	Parameter
Interface & Indicator	RF Interface	One TV (TV signal) output port, metric or British F-Type connector (Female). One CABLE (mixture signal) output port, metric orBritish F-Type connector (Female).
	Ethernet Interface	One 10/100/1000M auto-adaptive Rj45 port.
	Power Supply Interface	220V power supply cable (220V power supply module) or 60V power supply.
	Indicator	One power LED. One System working status LED. One CABLE connection status LED. Each Ethernet port has one working status LED.

Shenzhen C-Data Technology Co.,Ltd.
Address: Flat 6, Bldg 4, South 2 of Honghualing Industrial Zone, Liuxian Road, Xili Town, Shenzhen, Guangdong, China (518055)
Tel: +86-755-26014509/4710/4711 Fax: +86-755-26014506
Website: www.cdatatec.com

Edition: 20
Update: 7/9/2012

Technical Specification

Items	Specification	Parameter
Performance Parameter	RF Attribute	Frequency Band: 7.5~65 MHZ. Transmitting Power: 120 dBμV. Receiving Sensitivity: -65 dBμV. Reflection Loss: >16dB. Output Impedance: 75Ω.
	Transmission	Physical layer speed: 500 Mbps. MAC layer bandwidth: 300 Mbps.
	Modulation Mode	OFDM. 4096/1024/256/64/16/8-QAM, QPSK, BPSK, ROBO.
	Working Mode	TDMA/CSMA
	Encryption Mode	AES-128
Standard Compliance	EOC Standard	IEEE 1901 (Draft) HomePlug AV
	Ethernet Standard	IEEE802.3, IEEE802.3x, IEEE802.3u IEEE802.1P, IEEE802.1Q
Software	Management Mode	WEB, CLI, SNMP
	NMS Function	VLAN, QOS, bandwidth limitation, broadcast limitation.
Physical features	Power Supply & Consumption	Power Adapter: 12VDC 1.0A Consumption: <8W
	Size & Net Weight	Dimension: 202x123x38 mm. Net weight: 0.7 kg.
	Environmental Attribution	Working Temperature: 0~50°C Storage Temperature: -10~70°C Working humidity: 20%~85% non-condensing. Storage humidity: 10%~90% non-condensing.

Shenzhen C-Data Technology Co.,Ltd.
Address: Flat 6, Bldg 4, South 2 of Honghualing Industrial Zone, Liuxian Road, Xili Town, Shenzhen, Guangdong, China (518055)
Tel: +86-755-26014509/4710/4711 Fax: +86-755-26014506
Website: www.cdatatec.com

Edition: 20
Update: 7/9/2012

Network Management Introduction

CD7201 uses 32-bit CPU for status monitoring, function configuration, performance monitors and faults management. It can manage CD7201 master equipment and all slaves which connect with master. CD7201 manage salves through two layer OAM without IP address configuration and local management.

CD7201 supports WEB, CLI (Telnet) and SNMP management mode. The ports of management includes in-band and out-band ports.

The following diagrams are some WEB management interfaces.

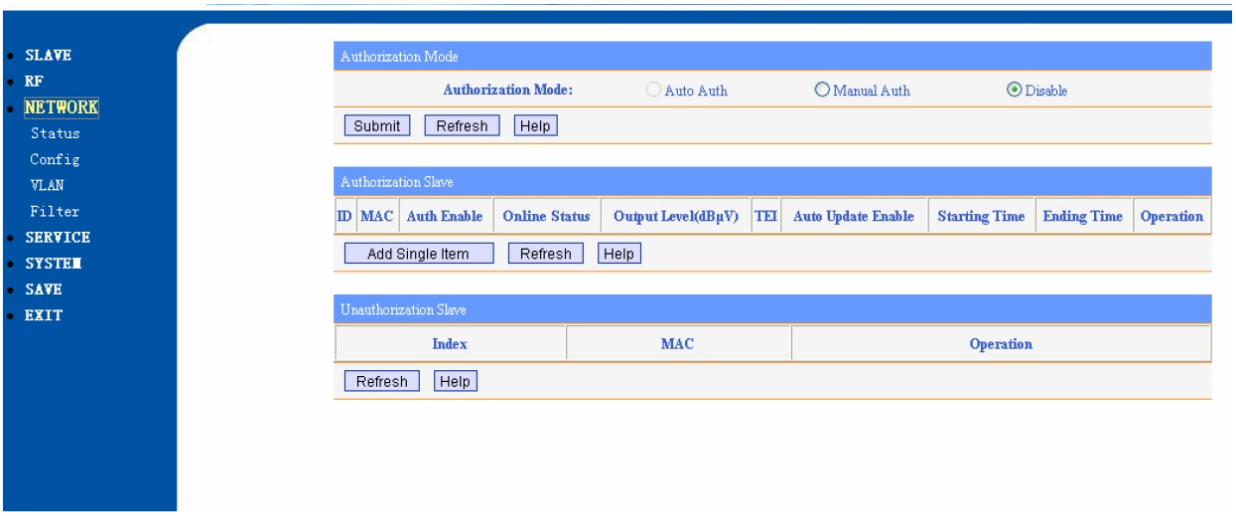


Figure 1 CD7201 WEB Management Diagram

The following is remote TELNET command line management interface:

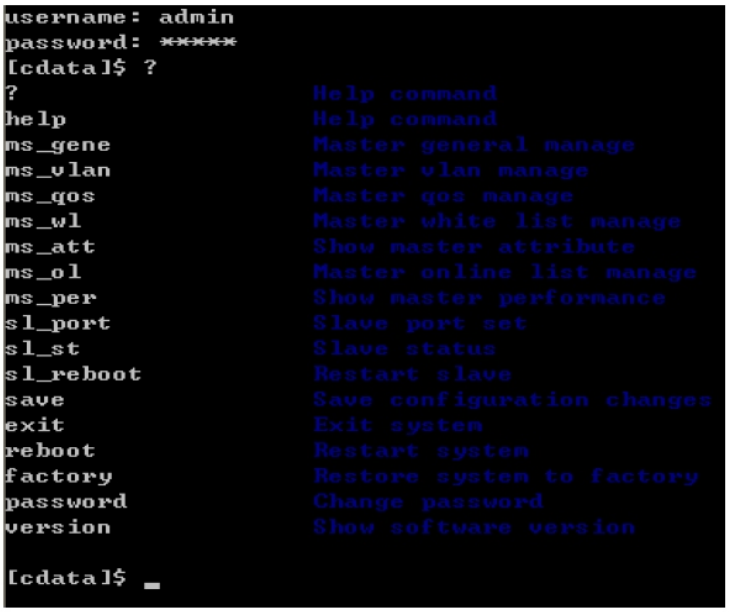


Figure 2 CD7201 CLI Management Interface Diagram

Shenzhen C-Data Technology Co.,Ltd.
Address: Flat 6, Bldg 4, South 2 of Honghualing Industrial Zone, Liuxian Road, Xili Town, Shenzhen, Guangdong, China (518055)
Tel: +86-755-26014509/4710/4711 Fax: +86-755-26014506
Website: www.cdatatec.com

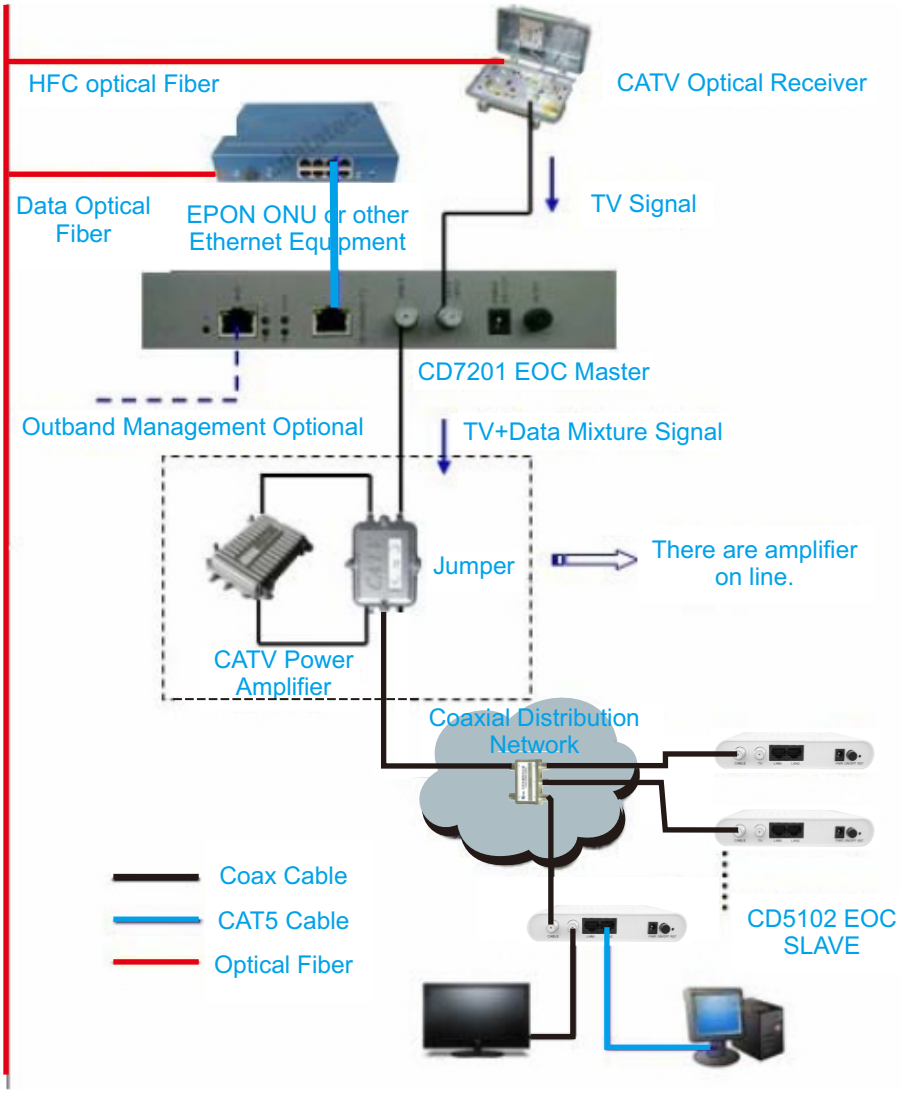
Edition: 20
Update: 7/9/2012

The Cd7201 has built-in SNMP AGENT software module to support user to manage the equipment by the third party SNMP software or C-DATA centralized management software (EMS).

Typical Application

- Network access.
- VOD.
- IPTV.
- Video monitor.

Network Construction



Shenzhen C-Data Technology Co.,Ltd.
Address: Flat 6, Bldg 4, South 2 of Honghualing Industrial Zone, Liuxian Road, Xili Town, Shenzhen, Guangdong, China (518055)
Tel: +86-755-26014509/4710/4711 Fax: +86-755-26014506
Website: www.cdatatec.com

Edition: 20
Update: 7/9/2012