



**C-DATA Technology Co.,Ltd.**

**EOC Product Specification**

*V 3.0*

**EOC Slave**

**CD5202/5204-INT7400 Chipset**



## Product Overview

CD5202/CD5204 is the EOC slave based on HomePlug AV solution for Ethernet access over coax. It works together with EOC master which is based on HomePlug AV solution as well to construct a two-layer Ethernet data transmission channel on CATV coax cable, provide the Ethernet access service based on the existing coax cable networking.

CD5202/CD5204 adopts INT7400 chipset, and OFDM modulation technology of high interference resistance, taking up the low frequency between 7.5MHz and 65MHz to transfer data. Its physical layer speed is 500Mbps, while the maximum MAC layer throughput is 300Mbps.

Deploying CD5202/5204 for data access could make full use of the current coax cable networking for easier and faster construction without changing the current networking and having no impact on the existing CATV service.

In the theoretical network constructive application, one master could connect 253 slaves maximally, and the network structure could be star or tree.

CD5202 is slave with 2 Ethernet ports while CD5204 is the one with 4 Ethernet ports .



EOC Slave-CD5202/5204



## Function Features

- ❖ Low-frequency modulated EOC slave is adopted INT7400 chipset, HomePlug AV solution.
- ❖ Work at low frequency between 7.5MHz and 65MHz, without affecting the existing CATV
- ❖ Physical layer speed: 500Mbps. Max MAC layer throughput is 300Mbps
- ❖ Support encryption for both uplink and downlink data
- ❖ Support 2 or 4 Ethernet ports with 10/100Mbps auto-negotiation function
- ❖ Support slave (CPE) isolation
- ❖ Support VLAN configuration based on slave unit or slave’s Ethernet ports
- ❖ Support bandwidth (speed) limitation for both uplink and downlink
- ❖ Support QOS configuration based on slave port or VLAN
- ❖ Support broadcast storm control
- ❖ Support data packages count
- ❖ Automatically distribute configurations to newly connected slaves, available to use as soon as correctly connected and power on
- ❖ Support WEB, CLI and SNMP management
- ❖ Support on-line upgrading

## Specification

Item	Parameter	Specification
Interface & Indicator	RF interface	One TV(RF signal) OUTPUT, metric or British F- connector One CABLE(MIX)INPUT, metric or British F connector
	Ethernet interface	Two 10/100M Ethernet ports(CD5202) Four 10/100M Ethernet ports(CD5204)
	Power supply interface	1 DC 12V power interface
	LED indicators	One power supply LED



Item	Parameter	Specification
		One system LED One CABLE LED for connection status Each Ethernet port has one LAN LED
Performance parameters	RF Attribution	Frequency: 7.5MHz-65MHz Output level: 120dBuV Receiving sensibility: 45dBuV Return loss: >15dB Output impedance: 75 $\Omega$
	Speed	Physical layer speed: 500Mbps Max MAC layer throughput: 300Mbps
	Modulation	OFDM 1024/256/64/16/8-QAM, QPSK, BPSK
	Work Mode	TDMA/CSMA
	Encryption	AES-128
Standards followed	EOC standard	IEEE1901(Draft) HomePlug AV
	Ethernet protocol	IEEE 802.3, IEEE 802.3x, IEEE 802.3u IEEE802.1P, IEEE802.1Q
Software	Management Mode	Support WEB,CLI and SNMP network management(through master managing slaves)
	Software features	VLAN, QOS, speed limitation, broadcast storm control
Physical features	Power supply & power consumption	Power supply adapter: 12VDC 0.5A Power consumption: <5W
	Size & N.W	Size: 150×116×28mm Net Weight: 0.3kg
	Environment situation	Working temperature: 0~50°C Storage temperature: -10~70°C



Item	Parameter	Specification
		Working humidity: 20%~85%, non-condensation Storage humidity: 10%~90%, non-condensation

### Typical Application

- ❖ Network access
- ❖ VOD(video on demand service)
- ❖ IPTV
- ❖ Video Surveillance

### Network Construction

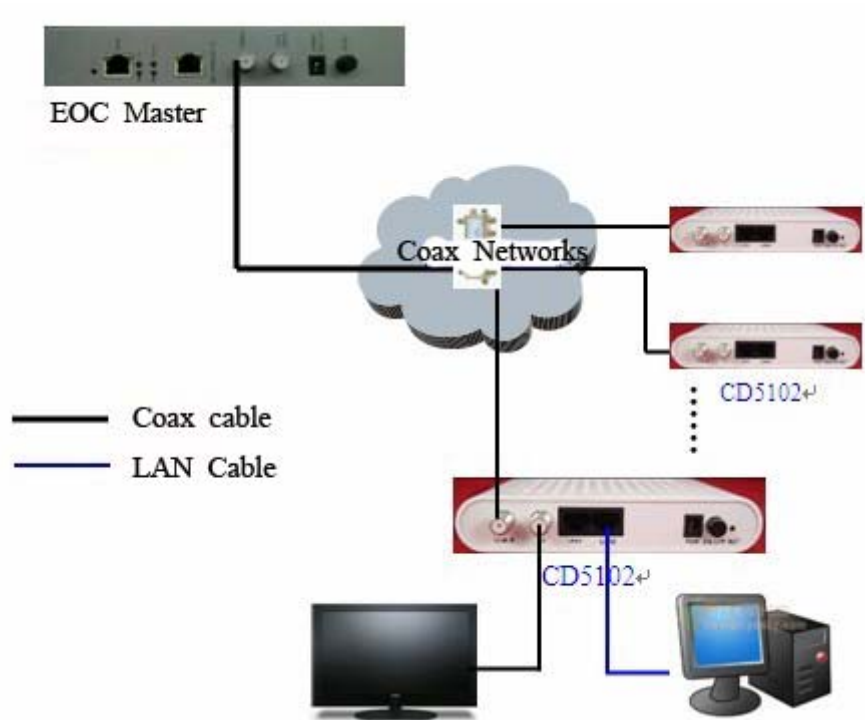


Figure 1: CD5202/CD5204 Application Diagram