

EOC Master -CD7102N



Product Overview

CD7102N is the outdoor EOC Master of the EOC (Ethernet Over Coaxial) solution. It is in compliant with HomePlug AV standard. The CD7102N have one EOC module. It provide two TV input, two CABLE output and two 10/100/1000M auto-negotiation uplink ports. It offers the high-speed data service to the customer based on the coaxial cable network.

The EOC module in the CD7102N is based the Qualcomm AR7410 chipset solution, with high anti jamming capability OFDM technology. The 7.5-65Mhz low frequency band is used for EOC signals. Built in high isolation filter as CATV RF and EOC signal mixer, the EOC signal and CATV signal in 87~862Mhz can running on one cable without interference. The EOC Master can provide high speed data service. The PHY Layer speed is 600Mbps, the MAC Layer throughput is up to 320Mbps.

Function Features

- HomePlug AV solution, based the Qualcomm AR7410 chipset
- Modularized design, easy for maintain
- Aluminum alloy die casting shaping, good heat dissipation

- Outdoor waterproof designed, 60V/220V power supply optional
- 7.5-65Mhz frequency for EOC signals., no influence on CATV Service
- PHY Layer speed 600Mbps, MAC Layer throughput up to 320Mbps
- Support bi-direction data encryption
- Support broadcast storm limitation
- Support data packet statistics
- Support auto-update and auto-configuration
- Support WEB、CLI、SNMP based network management
- Support On-line upgrading

Specification

Item	Parameters	Specification
Interface and LED Indicator	RF Port	1*EOC low-frequency signal output port, support F-Female or SMB connector
	Ethernet Port	Two 10/100/1000M Auto-negotiation RJ45 ports
	LED Indicator	1 for Power Supply Status 1 CABLE Link Status indicator 2 for Ethernet Ports Status
Performance Parameters	RF Parameters	Frequency Band :7.5-65MHz RF Output Level:115±5dBuv Receive sensitivity: 45dBuv Return Loss:>16dB Output Resistance:75Ω
	Transmission	PHY Layer: 600Mbps Throughput on MAC Layer: 320Mbps
	Modulation Mode	OFDM~ 2690~carriers 4096,1024,256,64,16,8~QAM, QPSK, BPSK, ROBO
	Working Mode	TDMA/CSMA
	Encryption Mode	AES-128
Standard	EOC Standard	IEEE P1901(Draft) HomePlug AV
	Ethernet Standard	IEEE 802.3, IEEE 802.3x, IEEE 802.3u IEEE802.1P, IEEE802.1Q
Software	Network Management	WEB, CLI, SNMP
	Software Features	VLAN, QOS, Bandwidth Control, Broadcast storm limitation
Physical Features	Power supply & Consumption	Power Supply: 220V/60V optional Consumption: <7W
	Size & Net weight	Dimension: 190mm×137mm×98mm Weight: 1.5kg

	Environment Attribute	Working Temperature: -10~50℃ Storage Temperature: -40~85℃ Working humidity: 10%~90% non-condensing Storage humidity: 10%~90% non-condensing
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Typical Application

- ◇ CATV
- ◇ Internet Access
- ◇ VOD
- ◇ IPTV
- ◇ Camera monitor system

Application Illustration

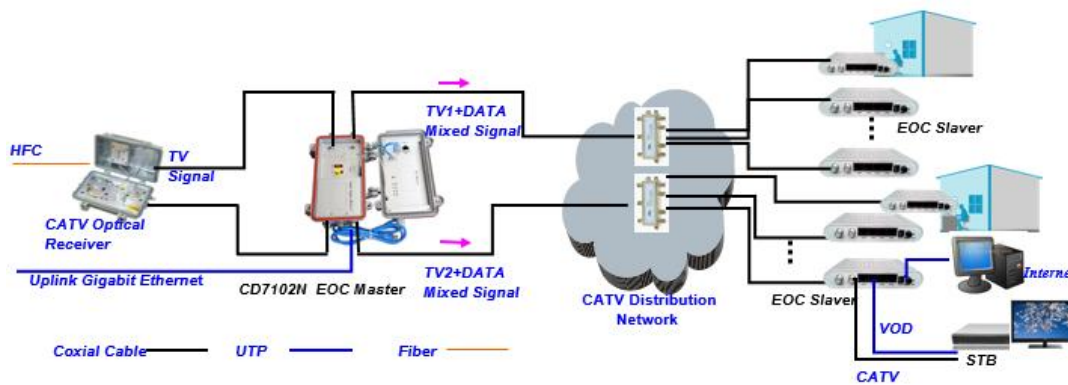


Figure 1 CD7102N Application Illustration

Order Information

Product	Item	Description
EOC Master With One Module	CD7102N-220VAC	Built in one 74 chipset EOC module, two TV input, two cable (mixed signals) output, two 10/100/1000M auto-negotiation uplink ports, 220VAC power supply
EOC Master With One Module	CD7102N-60VAC	Built in one 74 chipset EOC module, two TV input, two cable (mixed signals) output, two 10/100/1000M auto-negotiation uplink ports, 60VAC power supply