

## EOC Slave With 4FE & WIFI



CD5304CW 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.

CD5304CW is the slave with 4 Ethernet ports and WIFI.

CD5304CW is based the MStar 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 run on one cable without interference. The PHY Layer speed is 500Mbps, the MAC Layer throughput is up to 320Mbps.

### Features:

- Based on HomePlug AV solution and Qualcomm chipset
- 7.5-65Mhz frequency for EOC signals., no influence on CATV Service
- PHY Layer speed 500Mbps
- Support data encryption
- 4\*100M auto-negotiation Ethernet port
- Support the isolation of slave under one master
- Support Port-based VLAN and 802.1q VLAN
- Support bandwidth limited
- 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

**EOC Specification**

Item	Parameters	CD5304CW
<b>Interface &amp; indicator</b>	RF interface	1*TV(RF signal) OUTPUT, metric/inch F connector 1*CABLE(MIX)INPUT, metric/inch F connector
	Ethernet interface	4*10/100M auto-negotiation, RJ45
	Power interface	1*DC12V power supply interface
	LED indicators	1 x power indicator 1 x system indicator 1 x CABLE indicator 1 x WIFI indicator LAN indicator(each Ethernet port has 1 indicator)
<b>Performance parameters</b>	RF parameters	Frequency:7.5-65MHz Output level:115±5dBuV
		Receive sensibility:65dBuV Return loss:>16dB Output impedance:75Ω
	Transmission	PHY Layer:500Mbps 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
<b>Standard</b>	EOC Standard	IEEE P1901(Draft) HomePlug AV
	Ethernet Standard	IEEE 802.3, IEEE 802.3x, IEEE 802.3u IEEE802.1P, IEEE802.1Q
<b>Software</b>	Network Management	WEB, CLI, SNMP
	Software Features	VLAN, QOS, Bandwidth Control, Broadcast storm limitation
<b>Physical Features</b>	Power supply & Consumption	Power adapter:12VDC 1A Power consumption: <8W
	Dimension	160×120×32mm
	Weight	0.5kg
	Environment Attribute	Work temperature: 0~50℃ Stock temperature: -40~85℃ Work humidity: 10%~90%, non-condensation Stock humidity: 10%~90%, non-condensation

WIFI Specification		
<b>Performance parameters</b>	Operating Mode	Router or bridge
	Throughput	IEEE 802.11b: 11Mbps IEEE 802.11g: 54 Mbps IEEE 802.11n: 135Mbps
	Frequency	2.412 ~ 2.472 GHz
	Channel	13*Channel, configurable to meet the standard of USA, CCanada, Japan and China
	Modulation	DSSS , CCK and OFDM
	Coding	BPSK, QPSK, 16QAM and 64QAM
	RF receive sensitivity	802.11b: -83dBm @ 1 Mbps; -80dBm @ 2 Mbps; -79dBm @ 5.5 Mbps; -76dBm @ 11 Mbps 802.11g: -85dBm @ 6 Mbps; -84dBm @ 9 Mbps; -82dBm @ 12 Mbps; -80dBm @ 18 Mbps; -77dBm @ 24 Mbps; -73dBm @ 36 Mbps; -69dBm @ 48 Mbps; -68dBm @ 54 Mbps 802.11n 20MHz: -74dBm @ 65 Mbps; -70dBm @ 130 Mbps; 802.11n 40MHz: -70dBm @ 135 Mbps; -67dBm @ 300 Mbps;
	RF output lever	802.11b: 17 ±0.5dBm @11Mbps 802.11g: 15 ±0.5dBm @ 54 Mbps; 16 ±0.5dBm @ 48 Mbps; 17 ± 1dBm @ 6 ~ 36 Mbps 802.11n 20MHz: 14 ± 0.5dBm @ 130 Mbps; 15 ± 0.5dBm @ 78 Mbps; 18 ± 0.5dBm @ 6.5 Mbps 802.11n 40MHz: 14 ± 0.5dBm @ 300 Mbps; 15 ± 0.5dBm @ 162 Mbps; 18 ± 0.5dBm @ 13.5 Mbps
Encryption Mode	802.11i security: WEP-64/128, TKIP (WPA-PSK) and AES (WPA2-PSK)	

## Ordering Information

Product Name	Product Model	Descriptions
MSE510CE scheme wifi EOC Slave	CD5304CW	4 LAN user ports, support wifi, plastic casing, external power supply adapter
	CD5304CW-A	2*10/100M Ethernet interface, 2 LAN user ports, support wifi, plastic casing, external power supply adapter
	CD5304CW-B	3*10/100M Ethernet interface, 1 LAN user ports, support wifi, plastic casing, external power supply adapter