EOC Slave With 4FE & WIFI

Overview

CD5204W series 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.

CD5204W series 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 87Mhz~1Ghz can run on one cable without interference. The PHY Layer speed is 600Mbps,the MAC Layer throughput is up to 320Mpbs.

CD5204W series WIFI is based the MTK chipset solution.It meets 802.11 b/g/n technical standards. It has two external antenna, and can support 2.4GHz wireless signal. It has the characteristics of strong penetrating power and wide coverage. It can provide users with more efficient data transmission security.

Features

- Based on HomePlug AV solution and Mstar chipset

- 7.5-65Mhz frequency for EOC signals., no influence on CATV Service

- PHY Layer speed 600Mbps

- 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 get configurations from EOC Master when Newly connected with powered on

- Support WEB,CLI and SNMP management

- Support on-line upgrading

EOC Specification

Item	Parameters	CD5204W
Interface & indicator	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*power indicator 1*system indicator 1*CABLE indicator 1*WIFI indicator LAN indicator(each Ethernet port has 1 indicator)
Performance parameters	RF parameters	Frequency:7.5-65MHz Output level:110±5dBuv

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		Receive sensibility:-65dBuv
		Return loss:>16dB
		Output impedance: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 adapter:12VDC 0.5A
		Power consumption：<5W
	Dimension	160mm(L) x139.5mm(W) x 28.5mm (H)
	Weight	0.3kg
	Environment Attribute	Work temperature：0～55℃
		Stock temperature：-30～60℃
		Work humidity：10%～90%, non-condensation
		Stock humidity：5%～95%, non-condensation

WIFI Specification

Item		Parameter
Performance parameters	Operating Mode	Router or bridge
	WIFI antenna	2 external antennas, 1 built in antennas
	Throughput	IEEE 802.11b: 11Mbps
		IEEE 802.11g: 54 Mbps
		IEEE 802.11n: 300Mbps
	Frequency	2.412 ~ 2.472 GHz
	Channel	13*Channel, 1,2,3,4,5,6,7,8,9,10,11,12,13
	Modulation	11b：DSSS：DBPSK(1Mbps),DQPSK(2Mbps),CCK(5.5/11Mbps)
		11g:OFDM:BPSK(6/9Mbps),QPSK(12/18Mbps),16QAM(24/36M

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	bps),Q64QAM(48/54Mbps)
	11n：MIMO-OFDM:BPSK,QPSK,16QAM,64QAM.
Receive sensitivity	11Mbps:≤-89dBm
	54 Mbps:≤-76dBm
	HT20 MCS7:≤-72dBm
	HT40 MCS7:≤-68dBm
RF output lever	802.11n: 16.5dBm
Encryption Mode	AES, TKIP, WPA, WPA2, WPA-PSK/WPA2-PSK

Ordering Information

Product Name	Product Model	Descriptions
CD5204W	CD5204W-B35S-M410	1* mixed input port, 4*FE ports(2ETH+2LAN), 1*TV output port, support wifi, 35/47 type high/low filter, external power supply adapter, plastic casing
	CD5204W-B35N-M410	1* mixed input port, 4*FE ports(4LAN), 1*TV output port, support wifi, 35/47 type high/low filter, external power supply adapter, plastic casing
	CD5204W-B42S-M410	1* mixed input port, 4*FE ports(2ETH+2LAN), 1*TV output port, support wifi, 42/54 type high/low filter, external power supply adapter, plastic casing
	CD5204W-B42N-M410	1* mixed input port, 4*FE ports(4LAN), 1*TV output port, support wifi, 42/54 type high/low filter, external power supply adapter, plastic casing
	CD5204W-B65S-M410	1* mixed input port, 4*FE ports(2ETH+2LAN), 1*TV output port, support wifi, 65/87 type high/low filter, external power supply adapter, plastic casing
	CD5204W-B65N-M410	1* mixed input port, 4*FE ports(4LAN), 1*TV output port, support wifi, 65/87 type high/low filter, external power supply adapter, plastic casing

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