CastleNet
www.castlenet.com.tw

CBC381 Series

Worldwide First Integrated DOCSIS / EURODOCSIS 3.0 CM

Introduction

Product Description:

CBC381 series are the worldwide first leading integrated DOCSIS / EURODOCSIS 3.0 Cable modem especially designed for MSO / operators to compete with telecom FTTx applications.

Leverage from edge technology DOCSIS3.0 / EURODOCSIS3.0, CBC381 can adopts dynamic bandwidth adjustment by providing various set of downstreams and upstreams combinations up to cable plant requirement, such as 8 D/S with 4 U/S or 4 D/S with 1 U/S...etc. Not only CBC381 can provides ultran data bandwidth via the RF input, but also equipped with GbE ethernet port, USB2.0 device port for ultra bandwidth LAN applications. CBC381 series could easily provides MSO time-to-market sharp and crystal applications to compete with fiber technology.

Furthermore, CBC381 incorporates a complete IPTV solution. By performing QAM to IP conversion technology on system, CBC381 enables operators to offer IPTV service and directly take advantage of lower cost IP-STB hardware. The MPEG to IP integrated hardware engine within CBC381 encapsulates MPEG data coming from the RF interface into IP format and passes it along
to any interface, such as Ethernet, USB, WiFi, etc., all without any added host CPU performance consumption.

Superior design experiences and excellent system performance proved, CBC381 is the best choice for MSO / operators to march out for next NGN applications coming.

Feature

- DOCSIS/EURODOCSIS 3.0 Standard
- Dynamic D/S U/S Combinations and Supports up to 8D/S by 4 U/S
- D/S Bandwidth up to 400Mbps and U/S up to 160Mbps
- Flexible Integrated Receiver or Independent External Tuners do not Put Additional Burden on MSO Channel Lineup.
- 1 x GbE Connector for 10/100/1000 Ethernet with Auto-Negotiation MDIX Functions
- USB 2.0 Device Port (Optional)
- Integrated IPTV Solution Creates an End-to-End IPTV Solution, Enabling MSO to utilize Reduce Cost IP-STB without Investment on Headend
- Enhancement QoS Features
- Web Browser Management Auto Detect Network Status

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Specifications

Physical Interface

- **To WAN** F-type female 75 ohm connector (option)
- **To LAN** GbE 10/100/1000 Mbps
  USB 2.0 Device Specification (option)
- **To Power** 12V DC /1.5 A

Standard Support

- **DOCSIS/EURODOCSIS 1.0 / 1.1 / 2.0 / 3.0**

Downstream /Receiver/

- **Demodulation** 4QAM to 1024QAM
- **Data Rate**
  DOCSIS / 30Mbps (64QAM), 43Mbps (256QAM)
  EURODOCSIS / 41Mbps (64QAM), 55Mbps (256QAM)
- **Frequency Range** 88MHz to 1GHz / DOCSIS
  108 MHz to 1GHz / EURODOCSIS
- **Bandwidth** 6MHz / DOCSIS
  8MHz / EURODOCSIS
- **Input Signal Level** -15dBmV to +15dBmV

Upstream /Transmitter/

- **Modulation** QPSK, 8/16/32/64/128,256QAM
- **Data Rate** 30Mbps / TDMA , 35Mbps / SCDMA
- **Frequency Range** 5MHz~85MHz / DOCSIS
  5MHz~85MHz / JAPAN
  5MHz~65MHz / EURODOCSIS
- **Bandwidth** 200KHz, 400KHz, 800KHz,
  1600KHz, 3200KHz, 6400KHz
- **Output Signal Level**

+8 to +58dBmV (QPSK), +8 to +54dBmV (64QAM),
+8 to +54dBmV (32QAM) , +8 to +53dBmV (S-CDMA)

Network Protocal

- **Network protocol** IP / TCP / UDP / ARP / ICMP / DHCP / TP / TFTP / SNMP / HTTP
- **Routing** DNS relay / DHCP server / RIP I&II
- **Internet Sharing** NAT / NAPT / DHCP server / DNS relay
- **Application protocol** SNMP v1/v2/v3
- **DHCP server** LAN DHCP service with and without WAN connection
- **DHCP client** Automatically gets IP and DNS server address from DHCP server at ISP
- **DNS Server** Resolve local host name & return referral upon non-resolution
- **ToD (RF868)** ToD support for local and MSO time synchronization
- **TFTP Client** TFTP support for cable modem configuration file download
- **Tools** Ping tool via ICMP
  Speed test tool via UDP
- **Management** Web-based Management Interface utility

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