

DOCSIS / EURODOCSIS 2.0b Channel Bonding Cable Modem

CBC302

CBC302 DOCSIS/EURODOCSIS 1.1 / 2.0 Compliant Cable Modem is specially designed to enhance the bandwidth of downstream up to 120Mbps at DOCSIS and 150Mbps at EURODOCSIS, so called DOCSIS 2.0b Channel Bonding cable modem. When acquiring CBC302 DOCSIS 2.0b cable modem, there is no any limitation on channel location, modulation parameters or power levels. By leveraging from Castlenet CBC302, MSOs now can compete with Telecom xDSL and FTTx service and provide better service solution based on triple play application.

Product Specifications

Downstream /Receiver/

■ Demodulation	3 Downstream with up to 1024QAM
■ Data Rate	30Mbps (64QAM), 43Mbps (256QAM), Up to 120Mbps by 3 D/S Channels bonding at DOCSIS Up to 150Mbps by 3 D/S Channel Bonding at EURODOCSIS
■ Frequency Range	88MHz to 860MHz DOCSIS 108MHz to 862MHz EURODOCSIS
■ Bandwidth	6MHz DOCSIS 8MHz EURODOCSIS
■ Input Power	-15dBmV to +15dBmV

Upstream /Transmitter/

■ Modulation	QPSK, 16QAM, 32QAM, 64QAM, 128, 256QAM
■ Data Rate	0.32 ~ 30.72Mbps(TDMA), 2.56 ~ 35.84Mbps(SCDMA)
■ Frequency Range	5MHz to 42MHz DOCSIS 5MHz to 65MHz EURODOCSIS
■ Bandwidth	200KHz, 400KHz, 800KHz, 1600KHz, 3200KHz, 6400KHz
■ Output Power	+8 to +58dBmV (QPSK), +8 to +55dBmV (16QAM) +8 to +54dBmV (32QAM) , +8 to +53dBmV (S-CDMA)

Interface

■ USB	USB 2.0 Device
■ Ethernet	GigE 10-baseT / 100 / 1000 Mbps (Auto MDI/MDIX) x 1 Fast Ethernet 10 / 100 Mbps x 1
■ Cable Interface	F-type female 75 ohm connector
■ LED	Power/ Standby/ Downstream/ Upstream/ On-line/ USB / LAN

Environmental Specification

■ Input	15V, 1A
■ Power Consumption	< 5mA(max)
■ Temperature	0 degree Celsius to 40 degree Celsius
■ Humidity	95% Non-condensing
■ Operating System	Win 98(SE) / ME / 2000 / XP

Certifications

■ CE, FCC

- DOCSIS /EURODOCSIS 2.0 Compliant
- DOCSIS / EURODOCSIS 2.0b Channel Bonding Supported
 - Three Downstream and one Upstream
 - TurboQAM Performance Enhancements
 - SmartSpectrum Noise Immunity Technology
 - Propane Packet Accelerator
- Low Power Consumption
- QoS enhancement
- Flexible Expansion with PCI Support allows for Gigabit ETH, Voice, Wireless, Gateway, Storage or other applications
- Triple Play Potential
- One GbE Port and One Fast Ethernet Port Supported

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