

DOCSIS 2.0b Channel Bonding Cable Modem

CBC300(E)L Series

Product Description:

CBC300(E)L DOCSIS 1.1 / 2.0 Compliant Cable Modem is specially designed to enhance the bandwidth of the downstream up to 120Mbps, so called DOCSIS 2.0b Channel Bonding cable modem. By utilizing Pre-DOCSIS 3.0 (2.0b) extremely performance, MSO can now provide 3-Downstream channels and provide up to 120Mbps data rate without needing upgrading existing DOCSIS 2.0 / EuroDOCSIS 2.0 CMTS. Additionally, when acquiring CBC300(E)L DOCSIS 2.0b cable modem, there is no any limitation on channel location, modulation parameters or power levels. By leveraging from Castlenet CBC300(E)L, MSOs now can compete with Telecom xDSL and FTTx service and provide better service solution based on triple play application.

Product Specifications

Standard Support

- DOCSIS/EURODOCSIS 1.0/1.1/2.0, DOCSIS 2.0b

DOCSIS/EURODOCSIS Downstream

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

DOCSIS/EURODOCSIS Upstream

- 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 specifications
- Ethernet 100 / 1000 Mbps (Auto MDI/MDIX)
- Cable Interface F-type female 75 ohm connector
- LED Indicators

Environmental Specification

- Dimension 163.99 x 124.97 x 30.50mm
- Input 12V DC 1V
- Power Consumption < 5mA(max), can sink up to 40mA of current at ibase
- Temperature 0 degree Celsius to 40 degree Celsius
- Humidity 95% Non-condensing
- Operating System Win 98(SE) / ME / 2000 / XP

Certifications

- CE, FCC



- Fully DOCSIS 2.0 Compliant with Channel Bonding and 2.0b
- Three Downstream and one upstream
- TurboQAM Performance Enhancements
- SmartSpectrum Noise Immunity Technology
- Propane Packet Accelerator
- DOCSIS/EURODOCSIS 1.0/1.1/2.0 compliant
- Low power consumption
- QoS enhancement
- Flexible Expansion with PCI Support allows for Gigabit ETH, Voice, Wireless, Gateway, Storage or other applications
- Triple Play Potential