

PacketCable 1.5 and DOCSIS/EURODOCSIS 2.0 Compliant Cable Modem with Battery-Back-up and Embedded MTA

CBV700

Equipped with one Ethernet port or two Ethernet ports (optional) and two standard phone ports, the CBV700 has a few variation in models depending on its network connection. It may or may not have one PSTN connection for backup, one USB port, or one wireless port for Wide Area Network connection.

The integration of wireless local area network (WLAN) to the CBV700 has many potential benefits for home networking. The most compelling benefit is the CBV700's ability to provide voice-over-WLAN access-using both WLAN-enabled phones in the home and integrated cellular/WiFi handsets.

Specification

Standard Support

DOCSIS/EURODOCSIS 1.0/1.1/2.0

PacketCable 1.0/1.1/1.5

DOCSIS/EURODOCSIS Downstream

Demodulation 64QAM, 256QAM

Data Rate 30Mbps (64QAM), 43Mbps (256QAM)/DOCSIS
41Mbps(64QAM), 55Mbps(256QAM)/EURODOCSIS

Frequency Range 88MHz to 860MHz / DOCSIS
108 MHz to 862 MHz / EURODOCSIS

Bandwidth 6MHz (DOCSIS); 8MHz (EURODOCSIS)

Input Signal Level -15dBmV to +15dBmV

DOCSIS/EURODOCSIS Upstream

Modulation QPSK, 8/16/32/64/128QAM

Data Rate up to 30Mbps

Frequency Range 5MHz~42MHz / DOCSIS
5MHz~65MHz / EURODOCSIS

Bandwidth 200KHz, 400KHz, 800KHz, 1600KHz,
3200KHz, 6400KHz

Output Signal Level +8 to +58dBmV (QPSK),
+8 to +54dBmV (64QAM)

Interface

To WAN F-type female 75 ohm connector

To Telephone RJ-11 Telephone Socket x 2

To LAN One Ethernet 10/100 Mbps, RJ-45 ports
Two Ethernet 10/100 Mbps, RJ-45 ports (optional)

To Power 15V DC /1.0A

LED indicators

Voice / Fax

Audio Codes G.711, G.729A, G.723.1, and so on.

VAD Voice Activity Detection

CNG Comfort Noise Generation

Echo cancellation G.165/G.168 up to 16ms

Packet Tone DTMF generation/Call Progress
Generation/Custom Tone Generation

Call discrimination Fax and Modem Detection



Feature

- PacketCable 1.5 Standard Compliant
- DOCSIS/EURODOCSIS 2.0 standard compliant
- Support PacketCable MGCP (Media Gateway Control Protocol)
- SIP (Session Initiation Protocol) Compliant.
- Standard RJ-45 connector for 10/100BaseT Ethernet with auto-negotiation MDIX functions
- USB 1.1 12Mbps
- Two RJ-11 Foreign Exchange Station (FXS) ports for IP telephony
- QoS enhancement
- MSO SNMPv3 remote network management
- Provide MIBs DOCSIS1.0/1.1/2.0
- Support simultaneous voice and data communications
- Echo Cancellation
- Voice Active Detection (VAD)
- Comfort Noise Generation (CNG)
- Web Browser Management auto detect network status
- 802.11 b/g WLAN (optional)
- Battery Back-up (optional):
 - One Battery Pack: Provide up to four hours standby or two hours talk time
 - Two Battery Pack: Provide up to eight hours standby or four hours talk time