CBV704W A2 / CBV704EW A2 Series

PacketCable 1.5 and DOCSIS/EURODOCSIS 2.0 Compliant 4-Port Ethernet Cable Modem with Wireless and Embedded MTA

Introduction

Product Description:

The CBV704W A2 / CBV704EW A2 is a Voice over IP Wireless Residential Gateway integrated with Cable Modem which allows you implement your VoIP phone call directly through Cable-Modem Broadband Network service with its built-in PacketCable1.5 and DOCSIS/EURODOCSIS 2.0 compliant specification.

Equipped with two standard phone ports, CBV704W/EW A2 series could easily provide end-users low-cost, long-distance calling, faxing, and a host of advanced services including CBV704W/EW A2-to-Phone, Phone-to-CBV704W/EW A2, and CBV704W/EW A2-to-CBV704W/EW A2.

And with the integration of 4-port switch and IEEE 802.11g wireless functionality, the CBV704W/EW A2 series could also be used as a Wireless Cable Modem Residential Gateway in your home or small office. The ability to route data information into your broadband network could help you easily extend your local network via wire or wireless.

The CBV704W/EW A2 is MGCP/SIP compliant and has been tested with most major VoIP Softswitch vendors' Call Management systems. And it also has voice support that includes hardware based Quality of Service (QoS), voice compression (popular voice CODECs G.711, G.729A, G.723.1, and so on), echo cancellation, dynamic latency (jitter) buffers, silence suppression, and comfort noise generation.

Feature

- PacketCable 1.5 Standard Compliant
- DOCSIS/EURODOCSIS 2.0 standard compliant
- Support PacketCable MGCP (Media Gateway Control Protocol)
- SIP (Session Initiation Protocol) Compliant.
- 4 x 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
- WPS (Wireless Protection Setup) Supported
- Multi-SSID Supported
- Parental Control Supported
- Build-in IEEE 802.11g module as AP with miniPCI form factor

PacketCable 1.5 and DOCSIS/EURODOCSIS 2.0 Compliant
4-Port Etherent Cable Modem with Wireless and Embedded MTA

Specifications

Physical Interface

- **To WAN**   F-type female 75 ohm connector (option)
- **To Telephone**   RJ-11 Telephone Socket x 2
- **To LAN**   Ethernet 10/100 Mbps, 4 x RJ-45 ports
  USB 1.1 Specification
  802.11g module as AP in miniPCI interface
- **To Power**   12V DC /1.5A

Standard Support

- **DOCSIS/EURODOCSIS 1.0/1.1/2.0**
- **PacketCable 1.0/1.1/1.5**

Downstream /Receiver/

- **Demodulation**   64QAM, 256QAM
- **Data Rate**

  DOCSIS / 30Mbps (64QAM), 43Mbps (256QAM)
  EURODOCSIS / 41Mbps (64QAM), 55Mbps (256QAM)
- **Frequency Range**   88MHz to 860MHz / DOCSIS
  108 MHz to 862 MHz / 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~42MHz / DOCSIS
  5MHz~55MHz / 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)

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

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