

CBV2791N / CBV2791EN Series

PacketCable 1.5 and DOCSIS/EURODOCSIS 2.0 Compliant 1-Port Ethernet EMTA with 802.11n Wireless Connectivity

Introduction

Product Description:

The **CBV2791N / CBV2791EN** is a Voice over IP Wireless Residential Gateway integrated with Cable Modem which allows you to 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, CBV2791N / CBV2791EN series could easily provide end users low-cost, long-distance calling, faxing with excellent QoS (Quality of Service) features provided.

And with the integration of 1 port switch and IEEE 802.11n wireless functionality, the CBV2791N / CBV2791EN 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 CBV2791N / CBV2791EN 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 (WoS), voice compression (popular voice CODECs G.711), echo cancellation, dynamic latency (jitter) buffers, silence suppression, and comfort noise generation.



Feature

- PacketCable 1.5 Standard Compliant
- DOCSIS/EURODOCSIS 2.0 Standard Compliant
- Built-in IEEE 802.11n module as AP with PCIe form factor
- MGCP / SIP Compliant.
- 1 x standard RJ-45 connector for 10/100 BaseT Ethernet with auto-negotiation MDIX functions
- 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 (CAD)
- Comfort Noise Generation (CNG)



Specification

Physical Interface

- **To WAN** F-type female 75 ohm connector
- **To Telephone** RJ-11 Telephone Socket x 2
- **To LAN** Standard Ethernet 10/100 Mbps x 4
- IEEE 802.11n module as AP
- **To Power** 12V DC / 1 A

Standard Support

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

Downstream /Receiver

- **Demodulation** 64QAM, 256QAM
- **Data Rate** 30Mbps (64QAM), 43Mbps (256QAM)/DOCSIS
41Mbps (64QAM), 55Mbps (256QAM)/EURODOCSIS
- **Frequency Range** 88MHz to 1002MHz DOCSIS
108MHz to 1002MHz EURODOCSIS
- **Bandwidth** 6MHz DOCSIS
8MHz EURODOCSIS
- **Input Power** -15dBmV to +15dBmV

Upstream /Transmitter

- **Modulation** QPSK, 8/16/32/64/128,256QAM, 4 U/S
- **Data Rate** 30Mbps / TDMA , 35Mbps / SCDMA
- **Frequency Range** 5MHz~42MHz / DOCSIS
5MHz~65MHz / EURODOCSIS
- **Bandwidth** 200KHz, 400KHz, 800KHz, 1600KHz,
3200KHz, 6400KHz
- **Output Signal Level** +8 to +58BmV (QPSK), +8 to +54BmV (64QAM)
+8 to +54dBmV (32QAM), +8 to +53BmV (S-CDMA)

Wireless Module Combination

- 2.4/5G 2x2 a/b/g/n (only 2.4 or 5G can be used at the same time, not simultaneously)
- 2.4G only 2x2 b/g/n (wirespeed is 300Mbps)
- 2.4G only 1x1 b/g/n (wirespeed is 75Mbps for 20MHz BW)

Voice / Fax

- **Audio Codec** G.711, G.729abe, G.723, G.726
- **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 Protocol

- **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 & DNS server address from DHCP server at ISP
- **DNS Server** Resolve local host name & return referral upon non-resolution

Order information

CBV2791N for DOCSIS2.0, 1 port ETH, USB1.1 (optional), single / dual wifi 802.11n module as AP

CBV2791EN for EURO DOCSIS2.0, 1 port ETH, USB1.1 (optional), single / dual wifi 802.11n module as AP