

CBV382E1 / CBV382E1E Series

PacketCable 1.5 and DOCSIS/EURODOCSIS 3.0 Compliant Embedded MTA

Introduction

Product Description:

The **CBV382E1 / CBV382E1E** is the first worldwide leading product especially designed for DOCSIS3.0 / EURODOCSIS3.0 compliant embedded MTA.

Leverage from edge technology DOCSIS3.0 / EURODOCSIS3.0, **CBV382E1 / CBV382E1E** can adopt dynamic bandwidth adjustment by providing various set of downstream and upstream combination up to cable plant requirement, such as 4 D/S with 4 U/S or 8 D/S with 4 U/S...etc. Not only **CBV382E1 / CBV382E1E** can provide ultra data bandwidth via the RF input, meanwhile, it also provides Voice over IP and Gigabit Ethernet Residential Gateway functionality 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 3.0 compliant specification.

Equipped with two standard phone ports, **CBV382E1 / CBV382E1E** series could easily provides end-users low-cost, long-distance calling, faxing, and a host of advanced services .And with the integration of Gigabit Ethernet port, the **CBV382E1 / CBV382E1E** series could also be used as a 10/100/1000bps wire-speed 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 and carries more applications

The **CBV382E1 / CBV382E1E** is MGCP/SIP compliant product and has been tested with most major VoIP Softswitch vendors' Call Management systems. And it also has voice quality support that includes hardware based Quality of Service (QoS), 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 3.0 Standard Compliant
- Support up to 8D/S by 4U/S
- MGCP / SIP Compliant.
- 1 x GbE RJ-45 connector for 10/100/1000 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 DOCSIS1.0/1.1/2.0/3.0
- 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** GbE Ethernet 10/100/1000 Mbps x 1

- **To Power** 12V DC / 1 A

Standard Support

- DOCSIS/EURODOCSIS 1.0/1.1/2.0/3.0
- PacketCable 1.0/1.1/1.5

Downstream /Receiver

- **Demodulation** 8 Downstream with up to 1024QAM
- **Data Rate** 30Mbps (64QAM), 43Mbps (256QAM)/DOCSIS
41Mbps (64QAM), 55Mbps (256QAM)/EURODOCSIS
Up to 320Mbps by 8 Channels bonding
- **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
Up to 160Mbps by 4 U/S channel
Bonding
- **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)

Voice / Fax

- **Audio Codec** G.711
- **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

