

CBV38Z4ECNIT / CBV38Z4ECSIT

DOCSIS/EURODOCSIS cable modem with world-leading advantage

The CBV38Z4ECNIT/CBV38Z4ECSIT is the first worldwide leading product especially designed for DOCSIS3.0/EURODOCSIS3.0 compliant wireless embedded MTA.



There are two models CBV38Z4ECNIT with a dual band module as AP, and CBV38Z4ECSIT with single band.

Leverage from edge technology of DOCSIS3.0/EURODOCSIS3.0, the modem can adopt dynamic bandwidth adjustment by providing various sets of downstreams and upstreams profiles up to cable plant requirement. It also meets the MIMO (Multi Input Multi Output) criteria to provide extreme wireless data rate up to 300Mbps. The CBV38Z4ECNIT/CBV38Z4ECSIT can provide ultra data bandwidth via the RF input, via the air and wireless at the same time. It can also provide Voice over IP with Gigabit Ethernet Residential Gateway functionality integrated with Cable Modem. This allows you to 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, CBV38Z4ECNIT/CBV38Z4ECSIT can easily provide end users low-cost, long-distance calling. With the integration of Gigabit Ethernet port, the CBV38Z4ECNIT/CBV38Z4ECSIT 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 extend your local network via wire or wireless.

The CBV38Z4ECNIT/CBV38Z4ECSIT is MGCP/SIP compliant product, and has been tested with most of the major VoIP Softswitch vendor's Call Management systems.

Features

- PacketCable 1.5 Standard Compliant
- DOCSIS/EURODOCSIS 3.0 Standard Compliant
- Supports up to 8D/S by 4U/S
- Built-in IEEE 802.11n module as AP with PCIe form factor
- MGCP / SIP Compliant.
- 4 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)



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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 4
 - IEEE 802.11n module as AP
- To Power**
 - 12V DC / 2A

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 860MHz DOCSIS
 - 108MHz to 862MHz 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

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

Access point possibilities

- CBV38Z4ECNIT**
 - For EURODOCSIS 3.0, 4-ports GbE, with 802.11n 2x2 dual band module as AP
- CBV38Z4ECSIT**
 - For EURODOCSIS 3.0, 4-ports GbE, with 802.11n 2x2 single band module as AP

Note: Not every listed feature will be included in the shipping product.

We reserve the right to make changes of technical specifications, housing or design without prior notice.



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