

IP-NET Ultraband™ Wireless VoIP Cable Modem

Model

WCM2.007



The **WCM2.007** 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 series could easily provide end-users low-cost, long-distance calling, faxing, and a host of advanced services including **WCM2.007**-to-Phone, Phone-to-**WCM2.007**, and **WCM2.007**-to-**WCM2.007**.

And with the integration of 4-port switch and IEEE 802.11g wireless functionality, the **WCM2.007** 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 **WCM2.007** 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.

General Features:

- PacketCable 1.5 Standard Compliant and 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 and 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) and Comfort Noise Generation (CNG)
- Web Browser Management auto detect network status
- Build-in IEEE 802.11g module as AP with miniPCI form factor

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Item	Specifications
Physical Interface	<ul style="list-style-type: none"> ● 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 2.0 Specification 802.11g module as AP in miniPCI interface ● To Power: 12V DC /1.5A
Standard Support	<ul style="list-style-type: none"> ● DOCSIS/EURODOCSIS 1.0/1.1/2.0 ● PacketCable 1.0/1.1/1.5
Downstream /Receiver/	<ul style="list-style-type: none"> ● 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 <p>Input Signal Level: -15dBmV to +15dBmV</p>
Upstream /Transmitter/	<p>Modulation: QPSK, 8/16/32/64/128,256QAM</p> <ul style="list-style-type: none"> ● 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	<ul style="list-style-type: none"> ● 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 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/v
DHCP server	LAN DHCP service with and without WAN connection
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



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