



## VWM1020

### System Overview

## VWM-Max series

### WiMAX Home Gateway



### Features

- Residential gateway
- Remote management
- Superior voice quality
- Embedded router

### GENERAL DESCRIPTION

The Venceip VWM1020 Multi Service Gateway series is a member of the VWM-Max family, a line of WiMAX-based Broadband Wireless Access systems and Triple-Play Multi-Service Gateways. VWM-Max systems are designed for robustness and simplicity, offering feature-rich services with low deployment and operation costs, for unmatched operator competitiveness and fast ROI.

The VWM1020, VoIP analog telephone adaptor, enables service providers to deliver high-quality VoIP service that uses traditional analog telephones and fax machines to their Small Office/Home Office (SOHO) customers. It is a cost-efficient means for service providers to migrate their customers' traditional analog telephones and fax machines onto IP-based networks. Each VWM1020 has two analog voice lines (FXS) that support independent telephone numbers.

VWM1020 reduces subscribers' costs and simplifies installation by including an embedded router, thus eliminating the need for an external router. It also reduces service providers' costs because it's remotely manageable for software upgrades and troubleshooting.

VWM1020 family of Multi-Service Gateways is specifically tailored for the diverse needs of residential and SOHO end-users. VWM1020 products offer a complete set of data and voice solutions in a single box, eliminating the need to purchase, install and maintain several separate units to support multiple applications.

VWM1020 systems are designed to complement VWM-Max Broadband Wireless Access systems, allowing support of multiple customer types over the same infrastructure. The VWM1020 products connect to Venceip IEEE802.16d and IEEE802.16e WiMAX-based outdoor units over a CAT5 cable, where the cable serves for bi-directional transfer of data and signaling as well as for power feeding to the outdoor equipment.

### VWM1020 Highlights:

- **All-in-one Triple-Play solution**, fully supporting of data, voice and video services in the home
- **Plug-and-Play** installation and operation
- **Multiple services and functionality options**, including switching, routing, VoIP, Interactive TV and IP Video conversion to DVB.
- **Numerous applications and services** - Addressing multiple markets and supporting differentiated multi-services through multiple QoS levels and a variety of classification/prioritization schemes
- **Low cost of ownership** through simple installation and maintenance, enabling operators to rapidly penetrate new market segments with minimal CAPEX
- **Connects to 16d or 16e ODU CPE** through a single cable

## VMW1020 System Specifications

### VoIP Features:

Protocols	SIP (RFC 2543, RFC 3261) MGCP (RFC 2705, NCS)
CODECs	ITU G.711 (u-law, A-law) ITU G.723.1 ITU G.726 ITU G.729A/B ITU T.38 fax relay (SIP, MGCP) ITU FXS Automatic fax/modem detection Voice Activity Detection (VAD) Comfort Noise Generation (CNG) Caller ID RTP voice packet encapsulation
QoS	VLAN tagging IEEE 802.1q Voice priority over data IEEE 802.1p IEEE 802.3 Traffic shaping using bandwidth limitation per port L3 TOS marking

### Interfaces:

Indoor to Outdoor	10/100BaseTX auto sending (IEEE 802.3u) Connector RJ-45 Transmission Full/half duplex, auto negotiation, auto detect, auto polarity, cross or straight cable DC supply to outdoor unit
LAN	10/100BaseTX auto sending (IEEE 802.3u) Connector RJ-45 Transmission Full/half duplex, auto negotiation, auto detect, auto polarity, cross or straight cable 100BaseTX UTP, Cat. 5 100m
Telephone	2 independent phone lines (FXS) Analog Connector RJ-11 (POTS)
Ethernet Standards	IEEE 802.3 IEEE 802.3u IEEE 802.1q VLAN tagging support IEEE 802.1p QoS support

### Standards:

Emission and Safety Regulations	FCC part 15 class B, UL, CUL, CE
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### Router Features

IP Routing	PPPoE (RFC 2516) PPTP (RFC 2637) Dynamic Host Configuration Protocol (DHCP) server (RFC 2131), client (RFC 2131), and relay Network Address Translation (NAT) RFC 2068 HTTP Static and dynamic IP address assignment DMZ
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### Management:

Features	Web-based management for user and Admin TELNET Remote auto configuration mass software download and auto configuration using TFTP or HTTP IP Configuration DHCP or static
Security	Passwords encrypted configuration file

### General:

Indicators	Voice Green (softswitch registration) WAN Activity/Link Green flashing LAN Activity/Link Green flashing Power Green Ready Green flashing
Dimensions	(H) 0.95" (24.1 mm) (W) 3.5" (88.9mm) (D) 3.5" (88.9mm)
Power	110-230 VAC external power supply
Weight	0.4 kg (0.88 lb)
Operating Temperature	0° ~ 45° C (32° - 113° F)
Operating Humidity	10% - 90% non-condensing

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