

# ZISA V802VWL-AC

AD/VDSL Bonding VOIP 802.11ac WIFI IAD Router



## Description

The V802VWL-AC is a high-speed Wireless VDSL IAD, which is an advanced all-in-one gateway incorporating an VDSL 17a Bonding/30A single line modem, 802.11b/g/n/ac wireless router in one unit, bringing high-speed wireless Internet connection to a home or office, It can provide the transmission of broadband data service, which are suitable for using in a wide range of both residential (in-home) and commercial (offices, apartments, hotels, warehouses) network applications.

Using 802.11n/802.11ac wireless technology, which supports data rates up to 1.75Gbps, Wi-Fi enabled computers and devices can wirelessly connect to the VDSL Modem and share a single incoming Internet connection. With four additional Ethernet LAN ports, you can connect your network Ethernet-enabled devices. Two FXS interfaces connect directly to a standard telephone, fax machine, or similar device and supplies ring, voltage, and dial tone. The VDSL interface supports higher data transmission rate, which upstream up to 120Mbps and downstream can up to 200Mbps(30A single line are 100Mbps/100Mbps).

The router functionality on the VDSL Modem includes support for VPN pass-through of multiple concurrent IPSec and PPTP tunnels, making it especially useful for telecommuters or users who need a more secure way to communicate and transmit information. A Web-based user interface allows you to easily modify settings to connect to your Internet Service Provider (ISP). This Web interface also provides traffic statistics, connection speed, and other detailed information. The VDSL Modem supports static IP, Dynamic IP, as well as PPPoE connections, and works with applications such as online gaming and VPN connections with no additional configuration. The VDSL Modem is easily upgradeable, making it future-proof for both end-users and service providers. Whether it's for a home user who wants to share wireless high-speed Internet access or for a small office that needs Internet access for conducting essential business activities, the VDSL Modem is the ideal all-in-one broadband solution. With this gateway at the heart of your home network, you are connected to the future.

## Applications Diagram

- Home Gateway
- SMB Enterprise application
- High Internet access sharing
- High rate broadband sharing
- Shared Broadband Internet access
- Home networking application

## Specifications

### System Specifications

Chipset BCM63136KFSBG(for 30A single line)  
DRAM DDR3 4Gbit  
Flash 16MB or NAND 128Mbit  
Wi-Fi BCM4331(2.4G 3T3R WiFi)  
802.11AC BCM4360(5G 3T3R 11AC)  
VOIP ZL88601

### Features and Technical Specifications

#### ADSL Features

T1.413i2, G.992.1  
G.dmt, G.992.2, G.lite  
G.992.3 (G.bis/ADSL2)  
G.992.5 (ADSL2+)  
ITU G.994.1 (G.hs)  
Annex L (Reach Extended ADSL2)  
Support ATM forum UNI3.0, 3.1 and 4.0 permanent virtual circuits (PVCs)  
Support CBR, UBR, VBR-rt, VBR-nrt  
Support multiple PVCs  
Support ITU-T i.610F4/F5 OAM

#### VDSL Features

ITU-T G.993.2 VDSL2  
Support 8a,8b,12a,12b,17a profile  
Support G.vector  
Support ATM and PTM  
Support G.INP

#### Protocol Features

RFC2684 multiprotocol Encapsulation over ATM Adaptation Layer 5

RFC1483 multiprotocol Encapsulation over ATM Adaptation Layer 5  
RFC2364 PPP over ATM ALL5 (PPPoA)  
RFC2516 PPP Over Ethernet (PPPoE)  
RFC1662 PPP in HDLC-like Framing  
RFC1332 PPP Internet Protocol Control Protocol  
RFC1577/2225 Classical IP and ARP over ATM (IPoA)  
RFC894 A Standard for the Transmission of IP Datagrams over Ethernet Networks  
RFC1042 A standard for the Transmission of IP Datagrams over IEEE 802 Networks  
MER (a.k.a IP over Ethernet over AAL5)  
Support ALG (Application Level Gateways)  
IEEE802.3  
IEEE802.3u  
IEEE 802.11b  
IEEE 802.11g  
IEEE 802.11n

### **Bridging Features**

Self-learning bridge (IEEE 802.1D Transparent Bridging)  
At least 64 learning MAC addresses  
Support IGMP snooping

### **Routing Features**

RFC768 User Datagram Protocol (UDP)  
RFC791 Internet Protocol (IP)  
RFC792 Internet Control Message Protocol (ICMP)  
RFC793 Transmission Control Protocol (TCP)  
RFC826 An Ethernet Address Resolution Protocol (ARP)  
RFC862 Echo Protocol  
Support IP routing  
Support transparent bridging  
Support source and destination routing  
Support DHCP server/client  
Support UPnP  
Support NAT,NAPT  
Support DMZ  
Support IP QoS  
Support IGMP proxy  
Support IPv6

### **Management**

Device Configuration, Management and Update  
Web based GUI

- Localization support
- Embedded web server
- Download image via HTTP, TFTP client, TFTP server, FTP server
- Command Line Interface via serial port, telnet, or ssh
- Menu-driven CLI via serial port or telnet
- Universal Plug and Play (UPnP) Internet Gateway Device (IGDv1.0)
- WAN Management Protocol (TR-069)
- SNMP v1/v2
- PSI configuration file upload and download
- Date/time update from SNTP Internet Time Server

## Security

- Three-level login including local admin, local user, and remote technical support access
- Service access control based on incoming interface: WAN or LAN
- Service access control based on source IP addresses
- Protect DOS attacks from WAN: SYN flooding, IP surfing, ping of Death, fragile, UDP ECHO (port 7), teardrop, land
- PAP (RFC1334), CHAP (RFC1994), MSCHAP for PPP session
- IP filter, Parental control

## Wireless Features

### Standard

- IEEE802.11b/g/n

### Modulation schemes

- 802.11g: 64QAM, 16QAM, QPSK, BPSK, DSSS
- 802.11b: CCK, DQPSK, DBPSK
- HT20 and HT40: 64 QAM, 16QAM, QPSK, BPSK

### Wireless data rate

- 802.11b: 11, 5.5, 2, 1 Mbps per channel, auto fallback for extended range
- 802.11g: 54, 48, 36, 24, 18, 12, 9, 6 Mbps per channel, auto fallback for extended range
- HT20: up to 150 Mbps
- HT40: up to 300 Mbps

### Security

- 64-bit, 128-bit WEP, AES, TKIP, WPA, WPA2, 802.1x

## VoIP Protocol

- RFC 2617: HTTP Authentication: Basic and Digest Access Authentication.
- RFC 2833: RTP Payload for DTMF Digits, Telephony Tones and Telephony Signals
- RFC 3261: SIP: Session Initiation Protocol
- RFC 3262: Reliability of Provisional Responses in the Session Initiation Protocol (SIP)
- RFC 3263: Session Initiation Protocol (SIP): Locating SIP Servers

RFC 3264: Offer/Answer Model with Session Description Protocol (SDP)

RFC 3265: SIP Specific Event Notification

RFC 3311: The Session Initiation Protocol UPDATE Method

RFC 3323: A Privacy Mechanism for the Session Initiation Protocol (SIP), For further information see the CLIP/CLIR/CNIP/CNIR document.

RFC 3325: Private Extensions to the Session Initiation Protocol (SIP) for Asserted Identity within Trusted Networks

RFC 3515: The Session Initiation Protocol (SIP) - Refer Method

RFC 3842: A Message Summary and Message Waiting Indication Event Package for the Session Initiation Protocol (SIP)

RFC 3891: The Session Initiation Protocol (SIP) "Replaces" Header

RFC 3960: Early Media and Ringing Tone Generation in the Session Initiation Protocol(SIP)

RFC3959: The Early Session Disposition Type for the Session Initiation Protocol (SIP)

RFC 4028: Session Timers in the Session Initiation Protocol (SIP) T.38: Procedures for real-time Group 3 facsimile communication over IP networks

## External Connectors

1 x VDSL interface

2x FXS

1x FXO

4 x RJ45 LAN Ethernet interfaces 10M/100M/1000M

1 x 10M/100M/1000M WAN Interface

2 x USB 2.0 host

1 x reset button

2 x WPS button

1 x WLAN button

1 x power jack

1 x power switch

## Environment Requirement

Operating Temperature 0°C—40°C

Storage Temperature -20°C—70°C

Operating Humidity 10%—95%, non-condensing

Storage Humidity 5%—95%, non-condensing

Power Supply 12VDC, 2 A

Consumption 18 W (including power Adapter)

## EMC and Safety

Regulation Compliance

CCC Class B

CE

Safety Regulations UL

Green Standard RoHS

## Physical Characteristics

Physical Dimension 180x130x40

Weight 0.4Kg

### **ZISA Corporation Limited**

Tel: +86-10-52885062 Fax: +86-10-58236899

Mail to : [sales@zisacom.com.cn](mailto:sales@zisacom.com.cn)

URL: <http://www.zisacom.com.cn>

Specifications are subject to change without notice.

Copyright © ZISA Corp. All rights reserved.

