# ZISA V800VWL

**AD/VDSL VOIP WIFI IAD Router**


## Description

The V800VWL is a high-speed VDSL. It provides sufficient bandwidth for high performance connection to the Internet. It has Web-based graphic user interface (GUI), in which you can easily modify the settings and connect to your ISP. It also provides flow statistics, connection status, and other detailed information. The V800WL is easily upgraded and provides terminal users and ISP with the guarantee of future.

The V800VWL provides one xDSL 17a interface, four FE LAN, one GE WAN, two USB host 2.0 interface and 2.4G internal WIFI antennas. The Ethernet and WIFI are used for connecting to computers, through which you can access the Internet. The WIFI interface support 802.11n 2.4GHz band. It is an ideal broadband CPE solution for both home users who wish to share high-speed Internet access and small offices that wish to do business on the Internet.

## Applications Diagram

- Network online gaming
- High Internet access sharing
- High rate broadband sharing
- Small enterprises application
- Home networking application

## Specifications

### System Specifications

Chipset BCM63381+BCM6303+BCM43217+BCM50210

DRAM DDR 64MB

Flash Nor Flash 16MB

Wi-Fi 2.4GHz BCM43217, 802.11b/g/n, 2T2R

Voice LE9642

## 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 overEthernet Networks
- RFC1042 A standard for the Transmission of IP Datagrams over IEEE802 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 UserDatagram 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, autofallback for extended range
- 802.11g: 54, 48, 36, 24, 18, 12, 9, 6 Mbpsper 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 IndicationEvent 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

4 x RJ45 LAN Ethernet interfaces 10M/100M

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

2 x USB 2.0 host

1 x reset button

1 x WPS button

1 x WLAN button

1 x power jack

1 x power switch

## Environment Requirement

Operating Temperature 0ºC—40ºC

Storage Temperature -20ºC—70ºC

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

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