

# ZISA A104WL

300M 2\*2 WiFi High Performance 4Port ADSL2+ Router



# Description

A104WL is a high-performance wireless ADSL router, uplink rate up to 1 Mbps and downlink rate up to 24 Mbps. It provides one RJ11 telephone interface, four RJ45 Ethernet interfaces, and one USB host 2.0 interfaces. The telephone interface is used for connecting to the Internet provided by the telecom carrier. The Ethernet interfaces are used for connecting to the computer, through which you can access the Internet. Computers that are connected with the router through the Ethernet interfaces can establish a small local network area (LAN). Those computers can communicate with each other, sharing resources and files. A104WL 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.

A104WL 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. It supports static IP address, dynamic IP address, and PPPoE connection. A104WL is easily upgraded and provides terminal users and ISP with the guarantee of future.

# **Applications Diagram**

- Home gateway
- Small enterprises application
- TV over IP (IPTV)
- Internet access sharing
- High rate broadband sharing



- Files and resources of LAN sharing
- Network online gaming
- USB storage
- VPN connection
- Support VPN pass-through, including IPSec and multiple parallel PPTP tunnel
- Compliant with IEEE802.11b/g/n standards, high access to the Internet wirelessly

# **Specifications**

# System Specifications

Chipset RTL8676S+RTL8271B+RTL8192ERE

DDR/SDR SDRAM 8/16/32/64 MB DDR/SDR (inside the RTL8676S)

Serial Flash 8 MB

## Features and Technical Specifications

## Protocols

RFC 2684 Multiprotocol Encapsulation over ATM Adaptation Layer 5

RFC1483 Multiprotocol Encapsulation over ATM Adaptation Layer 5

RFC2516 PPP over Ethernet (PPPoE)

RFC1662 PPP in HDLC-like Framing

RFC1332 PPP Internet Protocol Control Protocol

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 (IP over Ethernet over AAL5)

PPTP, L2TP, IPSec, and SIP application layer gateway (ALG)

Self-learning bridge (IEEE 802.1D Transparent Bridging)

Support at least 64 learning MAC addresses

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

G.992.1 (T1.413)

G.992.2 (G.dmt), G.lite

G.992.3 (G.bis/ADS L2)

G.992.5 (ADSL2+)

Annex L (reach extended ADSL2)

ATM forum UNI3.0, 3.1 and 4.0 permanent virtual circuits (PVCs)

CBR, UBR, VBR-rt and VBR-nrt

ITU-T i.610F4/F5 OAM

IP routing



## **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

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### 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

#### **Operating channels**

802.11b:

- 4: France
- 11: USA and Canada
- 13: Most European countries
- 14: Japan

802.11g:

- 11: USA and Canada
- 13: Most European countries
- 14: Japan

HT20:

- 11: USA and Canada
- 13: Most European countries
- 14: Japan

HT40:

- 3—9: USA and Canada

- 3-9: Most European countries

#### **Transmission distance**

100m indoors coverage area

300m outdoors coverage area (varying depending on the actual environment)

#### Security

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

# **Basic Features**



Set IP address and subnet mask at the LAN end and manage domain Name

VLAN and port binding at the LAN end

Multi-IP address management at the LAN end

DHCP server, Option 60/15/42/50/250, and management of multiple address pools

DHCP Relay, compatible with RFC2131, RFC951, RFC1542

10M/100M, self-adaptation, half duplex and full duplex management of the LAN port

Up to eight WAN connections

Static uplink, configuring of static IP address, subnet mask, DNS, and gateway

PPPoE uplink, configuring of user name, password, MRU, PAP and CHAP authentication, disconnection

upon idle overtime

DHCP uplink, obtaining the IP address through DHCP

Bridge uplink

VLAN at the WAN end and 802.1q VLAN

NAT and NAPT

#### **Advanced Features**

ALG: TFTP/FTP/PPTP/RTSP/L2TP/H323

MAC address filtering in the whitelist mode

Virtual server (NAPT configuration page), meeting the TR098 requirements for port mapping nodes,

supporting 16 entries of virtual server configuration

DNS agent

Manual configuration of DNS

QoS:

- Interface management, supporting strict-priority (SP) and DWRR scheduling modes

- Queue management, supporting eight priority queues

- Flow classification management

Anti-DoS, independent switch for each protection item, and anti-portscanning switch

IP filtering, security level configuration, blacklist and whitelist based on WAN/LAN end (each list

supporting up to 20 entries of IP filtering configuration)

Ping/Web/Telnet/SSH/FTP/TFTP local access control

Ping/Web/Telnet/SSH/FTP/TFTP remote access control

UPnP

IGMP Snooping and IGMP data control of the port

IGMP relay

Static routing management, supporting up to 16 entries of static routing configuration

Dynamic routing management, RIPV1, RIPV2, active and passive Modes

SNTP

URL filtering, blacklist and whitelist filtering, supporting up to 20 URL entries

DMZ



# **Status Enquiry**

System information ADSL information Host list at the LAN end WAN connection status and statistics information LAN statistics information

## **Configuration Management**

Web, TR069 and SNMP configuration management Telnet and SSH Restore to the factory defaults and keep key parameters, reboot the router Two-level user management, including administrator and user Ping diagnostics Software version upgrade, double Image backup, and HTTP upgrade Upgrade and download of the configuration file of HTTP and TFTP server Record log, upload log through TFTP, clear log, and download log through HTTP

#### **External Connectors**

- 1 x RJ11 DSL interface
- 1 x WPS/WLAN button
- 1 x reset button
- 4 x RJ45 Ethernet interfaces
- 1 x USB host 2.0 interface
- 1 x power interface
- 1 x power switch

#### **Ethernet Interface Features**

Fully compliant with IEEE802.3/802.3u standards 10Base-T and 100Base-TX Half duplex and full duplex Auto MDI/MDIX Flow control

## Consumption

7W

# **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 12 V DC, 1 A

# EMC and Safety

Regulation Compliance FCC CE Safety Regulations UL Green Standard RoHS

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