



MODEM ADSL A104WL

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.

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

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

Protcols

- 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)
- RRFC862 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
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	<ul style="list-style-type: none"> • 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
Consumption	7W

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

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

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



Specifications are subject to change without notice

