



ADSL2+ Wireless VoIP Router

All-in-one Integrated Access Device

RTA1046VW



FEATURES

- > Broadband Internet Access up to 24 Mbps
- > Supports ADSL, ADSL2 and ADSL2+
- > Simple Configuration
- > Integrated 54 Mbps Wireless Access
- > Wireless Security, WEP and WPA
- > 4 Ethernet Ports for Internet Sharing
- > Suitable for Home and Office Networks
- > Security Firewall & DMZ
- > VPN Passthrough
- > Port Forwarding, UPnP™ and QoS
- > Lifetime technical support
- > 2 Phone ports and PSTN backup



NZ 0800 653 962
AUS 1800 063 962



12 MONTH
WARRANTY



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Get Connected.

Technical Specifications (RTA1046VW)

ADSL Compliance

ADSL

- ANSI T1.413 Issue 2
- ITU G.992.1 Annex A (G.dmt)
- ITU G.992.2 Annex A (G.lite)
- ITU G.994.1 (G.hs)
- Support dying gasp
- Maximum Rate: 8 Mbps downstream and 1 Mbps upstream

ADSL2

- ITU G.992.3 Annex A (G.dmt)
- ITU G.992.4 Annex A (G.lite)
- Maximum Rate: 12 Mbps downstream and 1 Mbps upstream

ADSL2+

- ITU G.992.5 Annex A (G.dmt)
- Maximum Rate: 24 Mbps downstream and 1.2 Mbps upstream

ATM

- PPPoA (RFC 2364) and PPPoA Bridged mode
- PPPoE (RFC 2516) and PPPoE Bridged mode
- IPoA (RFC 2225)
- Bridged mode over AAL5 (RFC2684/1483)
- ATM Forum UNI 3.1 / 4.0 compliant PVCs
- UBR and CBR with traffic shaping
- OAM F4/F5 loopback cells

Bridging

- IEEE 802.1d self-learning bridge
- Learning up to 4096 MAC addresses
- Transparent Bridging between 10/100 Mb Ethernet and USB
- Supports IGMP Snooping
- Supports 802.1Q VLAN packet pass-through

Voice over IP Features

- Call Feature: basic outgoing and incoming call, Call Waiting, Three Party Conference, Call Transfer, Caller ID (only when supported by service provider).
- Call Control: SIP (RFC3261)

- Voice Transport: compliance to RTP (RFC1889)
- Voice Codec: G.711 (a-law and u-law), G.726 and G.729
- Tone/Ring Signal: compliance to Australia & New Zealand standards.
- Tone Detection: support DTMF
- Echo Cancellation: G.168 compliance
- Support FAX/Analog Modem function via PSTN port
- Support RFC2833 RTP Payload for DTMF Digits, Telephony Tones and Telephony Signals
- Two VoIP (FXS) ports for VoIP phone calls supporting intelligent lifeline backup when there is no Internet service.
- Manual selection of PSTN mode or VoIP mode for making phone calls
- Automatic selection of PSTN when an emergency number is dialled.

Routing

- NAT / PAT allows multiple users to share Internet access
- UPnP IGD with NAT traversal capability
- Port Forwarding: users can setup multiple virtual servers (e.g., Web, FTP, Mail servers) on the local network.
- Static routing & dynamic routing RIPv1/v2
- DNS Relay, Dynamic DNS
- DHCP Client/Relay/Server
- IGMP Proxy
- Support IP/Bridge QoS for different traffic classes
- Support 802.1Q VLAN Tagging

Configuration and Management

- Embedded web configuration interface with password protection
- Remote management control
- Telnet session for local or remote management
- System events logging
- DSL connection diagnostics
- Firmware upgrade via web browser
- User setting backup & restore
- SNMPv1/v2 agent with MIB-II, ADSL Line MIB

Technical Specifications (RTA1046VW)

Supported Applications

- Application Level Gateways preset for Auth/Ident, DNS, FTP, PPTP, IPSEC, POP3, SMTP, SSH, TELNET, TFTP & WEB servers. Multiple Virtual Servers can be setup in local network.
- VPN passthrough
- NetMeeting, MSN Messenger, FTP, Quick Time, mIRC, Real Player, CuSeeMe, online gaming.

Security

- PAP, CHAP, and MS-CHAP/CHAP2 for PPP authentication
- Firewall based on incoming & outgoing filtering of IP address/Port number/Protocol type
- Ping blocking from WAN
- DMZ hosting

Hardware Interface

- One RJ-11 port for ADSL connection
- One RJ-11 port (FXO port) for connecting to PSTN line
- Two RJ-11 ports (FXS ports) for VOIP phone calls
- Four Ethernet ports for IEEE 802.3/802.3u 10/100 Base-T auto-sensing and auto-crossover
- One hidden button for restoring factory default settings

Chipset

- Broadcom BCM6348 single-chip ADSL2+ with integrated MIPS32 CPU, transceiver & Analog Front End
- Broadcom BCM4318 single-chip 802.11g wireless LAN solution

Power Requirement and Operation

Environment Requirement

- Power Adaptor: Output 12 VAC, 1.5A
- Power Consumption: less than 15 W
- Ambient Temperature: 0 to 40°C
- Relative Humidity: 20% to 90% (non-condensing)

Wireless LAN

- Supports IEEE 802.11g and 802.11b
- Data Rates: 54, 48, 36, 24, 18, 12, 9, 6 Mbps for 802.11g and 11, 5.5, 2, 1 Mbps for 802.11b
- Diversity antenna system: one external antenna and one internal antenna

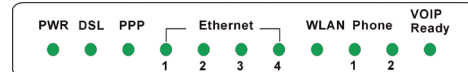
- Maximum RF output power: 13.5dBm for 802.11g
- Coverage Area:
 - 802.11g: LOS (Outdoors): Max. 50 meters;
Indoors: Max. 20 meters
 - 802.11b: LOS (Outdoors): Max. 180 meters;
Indoors: Max. 60 meters
- Support WEP (Wired Equivalent Privacy) RC4 with 64-bit or 128-bit key length
- Support Access Control List, only registered WLAN clients are allowed
- Support 802.1x, WPA-PSK, WPA, WPA2 & Mixed WAP/WPA2.

Regulatory Approval and Compliance

- ACA
- Telecom New Zealand PTC270

Physical

- Front Panel: 11 LED Indicators



- Back Panel

