

11g Wireless ADSL2+ VoIP Router

Product Overview

WBR-3470 Wireless ADSL and VoIP Router is an all-in-one unit that combines an ADSL modem and an Ethernet network switch with VoIP functionality. The ADSL2+ VoIP Router complies with ADSL2+ and SIP standards that provides for broadband Internet access and cost-effective, toll-quality Internet calls via SIP protocol.

Combine High-speed Internet Access with VoIP

The WBR-3470 combines ADSL Internet connectivity with VoIP functionality making it possible for home and small office users to simultaneously connect to the Internet while making inexpensive Internet phone calls. The WBR-3470 is SIP compliant, ensuring interoperability with SIP devices and major VoIP Gateways. By connecting the router to an existing analog telephone, users can make toll-quality VoIP calls via an ADSL Internet connection.

The VoIP ADSL router integrates two RJ-11 FXS ports for connecting to regular telephones and fax machines as well as an RJ-11 FXO port to connect to the PSTN network for traditional inbound and outbound calls. This is very useful when making local calls or when the VoIP services or Internet access are not available.

The VoIP ADSL router supports call waiting, silence suppression, voice activity detection (VAD), comfort noise generation (CNG), line echo cancellation and caller ID (Bell 202, V3).

Secured Wireless Internet Access

With an integrated 802.11g Wireless Access Point, the WBR-3470 VoIP Router offers high-speed wireless network access. It is also backward compatible with 802.11b devices. The Wireless Protected Access (WPA/WPA2) and Wireless Encryption Protocol (WEP) supported features enhance the security level of data protection and access control via Wireless LAN. It also features a built-in Wireless Distribution System (WDS) function that allows for an easy to set-up wide coverage wireless network.

Feature Rich Functions

The VoIP Router supports an array of firewall security features such as SPI, DoS attack prevention, and URL Content Filtering providing users with a protected and secured network.

It further provides QoS (Quality of Service) that ensures efficient data transmissions of inbound and outbound data. The integrated DHCP (Dynamic Host Control Protocol) client and server services allow multiple LAN users to acquire automatic IP address assignment. With ADSL2/2+ compliance, users are assured of high-speed Internet access.

For advanced users, the WBR-3470 also provides a Virtual Service feature for port forwarding. The Virtual Server can also be used to re-task services to multiple servers.

User Friendly Web-based User Interface and Quick Installation Wizard

The Web-based User-Interface makes it easy to configure all the services provided on the VoIP Router. With initial installation, a quick installation wizard assists users to configure the basic settings of the VoIP Router to connect to an ISP.



WBR-3470

Key Features

- Provides for an all-in-one solution for Internet access, Internet calling and Wireless Internet sharing
- Compliant with ADSL2/2+ standards for high-speed Internet access
- Built-in 11g Wireless AP for high-speed wireless Internet access sharing
- Provides support for PSTN connectivity for dual VoIP and traditional telephony
- Compliant with SIP standard providing toll quality VoIP functionality
- Supports G.711 A/μ law, G.723.1 and G.729ab audio codec standards
- Supports an array of telephony features such as call forwarding, call waiting, call transfer and caller ID
- Provides QoS control for traffic prioritization and bandwidth management
- Ideal router for Triple Play application
- Features SOHO Firewall Security with DoS Prevention and SPI
- Supports Virtual Private Network (VPN) pass-through
- Easy to use and comprehensive Web-based user-interface

Technical Specification

ADSL Compliance

ADSL Standard

- Full-rate ANSI T1.413 Issue 2
- G.dmt (ITU G.992.1)
- G.hs (ITU G.994.1)
- ADSL over ISDN/U-R2

ADSL2 Standard

- G.dmt.bis (ITU G.992.3)
- ADSL2 Annex M (ITU G.992.3 Annex M)

ADSL2+ Standard

- G.dmt.bisplus (ITU G.992.5)
- ADSL2+ Annex M (ITU G.992.5 Annex M)

Network Protocols

- NAT, static routing
- Universal Plug and Play (UPnP) Compliant
- Dynamic Domain Name System (DDNS)
- Virtual Server and DMZ
- SNTP, DNS relay and IGMP proxy

Wireless 802.11g

- Compliant with IEEE 802.11g and 802.11b standards
- 2.4 GHz - 2.484 GHz frequency range
- Up to 54 Mbps wireless operation rate
- 64/128 bits WEP supported for encryption
- Wireless Security with WPA-PSK/WPA2-PSK support
- WDS repeater function support

IPTV Application

- IGMP Snooping
- Virtual LAN (VLAN)
- Quality of Service (QoS)

VoIP

- Compliant with SIP standard (RFC 3261)
- Supports G.711 A/m law, G.723.1 and G.729ab standards
- Supports Telephony Features: call waiting, Call Transfer (Attended), Call Forward (Busy / No Answer / Unconditional), Call Hold / Retrieve, Caller ID Display/ Blocking, Anonymous Call Blocking
- Voice over data, QoS control to ensure higher voice quality
- CNG/VAD/Adaptive Jitter Buffer support
- PSTN backup while Power failure/ network failure/SIP registration failure
- DTMF: In-band/out-of-band(RFC2833)/SIP INFO
- Direct IP Call/ Dial via SIP Proxy
- Tone Generation/Detection
- Local dialling table for VoIP/PSTN routing control

Firewall & Virtual Private Network (VPN)

- Built-in NAT Firewall
- Stateful Packet Inspection (SPI)
- Prevent DoS attacks
- Packet Filtering
- URL Content Filtering
- Password protection for system management
- VPN pass-through

ATM and PPP Protocols

- ATM Adaptation Layer Type 5 (AAL5)
- Multiple Protocol over AAL5 (RFC 2684, formerly RFC 1483)
- Bridged or routed Ethernet encapsulation
- VC and LLC based multiplexing
- PPP over Ethernet (PPPoE)
- PPP over ATM (RFC 2364)
- OAM F4/F5

Management

- Quick Installation Wizard and Auto-scan ADSL settings
- Web-based GUI for remote and local management
- Firmware upgrade and configuration data upload and download via Web-based GUI
- Embedded Telnet server for remote and local management
- Available Syslog monitoring
- Supports DHCP server/client/relay

Quality of Service Control

- Supports DiffServ approach
- Traffic prioritization and bandwidth management based-on IP protocol, port number and address

Hardware Specification

Network and Device Interface

- WLAN: 11b/g
- Antenna: 2 dBi, detachable antenna
- WAN: ADSL port
- LAN: 4-Port 10/100Mbps Switch
- FXO: 1-port FXO
- FXS: 2-port FXS

Operating Environment

Operating temperature: 0°C ~ 40°C
Storage temperature: -20°C ~ 70°C
Humidity: 20 ~ 95% non-condensing

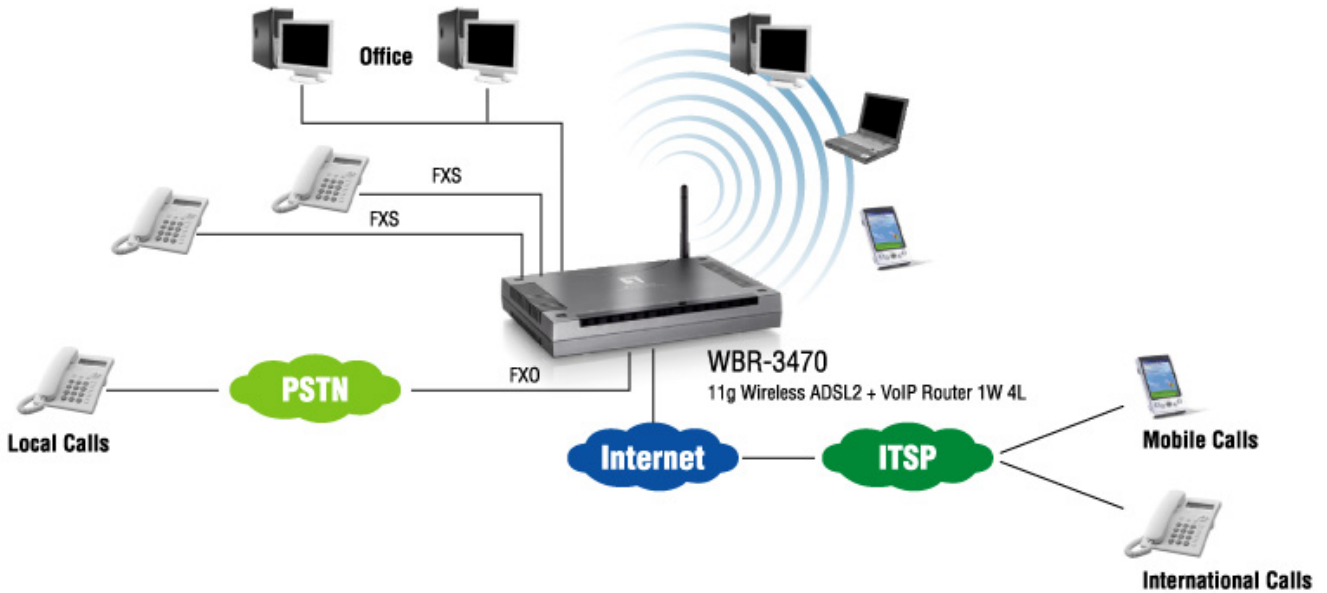
Physical Specification

Dimensions: 210mm x 148mm x 36mm

Power Requirement

Input: 12V DC, 1.2A

Product Diagram



Ordering Information

WBR-3470A	11g Wireless ADSL2+ VoIP Router (Annex A)
WBR-3470B	11g Wireless ADSL2+ VoIP Router (Annex B)

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