



# 11g Wireless ADSL2+ VoIP Router



WBR-3470

H/W Version: 1

## Overview

WBR-3470 Wireless ADSL and VoIP Router is an all-in-one unit that combines an ADSL modem, a wireless 11g broadband router with VoIP functionality, as well as an Ethernet network switch. WBR-3470 is a great device for home and office users looking for advanced features in a small desktop footprint.

## Combine High-speed Internet Access with VoIP

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. Users can connect WBR-3470 to an analog telephone to make toll-quality VoIP calls over the internet.

## Secured Access and Traffic Priority

With an 802.11g Wireless Access Point, WBR-3470 offers high-speed wireless network access of up to 54 Mbps with excellent network protection using WEP, WPA/WPA2 encryption. It also features a built-in Wireless Distribution System (WDS) for easy set up of a wide coverage wireless network. WBR-3470 further provides QoS (Quality of Service) to ensure efficient data transmissions of inbound and outbound data.



1. LED Indicators
2. ADSL Interface
3. FXO PSTN Line Interface
4. FXS VoIP Interface
5. LAN Interface
6. Reset Button
7. Power Port
8. On/Off Button

## Key Features

- High-speed broadband connection with ADSL2+
- Compliant with 802.11g wireless standard, speeds up to 54Mbps\*
- Incorporates WPA, WPA2, WEP encryption and other advanced network security features
- Built-in VoIP function for two handsets. Auto-Failover to traditional lines.
- Integrated 4-port Ethernet Switch
- Firewall Security with DoS Prevention and Packet Filtering
- Control your bandwidth with Quality of Service (QoS)
- Easy to use Web Management

## Works Well With



**WNC-0305USB**  
11g Wireless USB Adapter



**WCS-0010**  
11g Wireless Network Camera

\*Theoretical throughput, actual performance depends on equipment and network conditions.

## Technical Specification

### LAN - Interface

4x 10/100 Mbps Auto-MDIX RJ-45 Port

### ADSL - Interface

1x RJ-11 Port

### VoIP - Interface

1xFXO, 2x FXS (RJ-11 Ports)

### Data Rates:

Downstream: Up to 24Mbps

Upstream: Up to 3.5Mbps

### ADSL Standards

Multi-Mode, ANSI T1.413 Issue2

ITU-T G.992.1 (G.dmt) Annex A/C/I

ITU-T G.992.2 (G.lite) Annex A/C

ITU-T G.994.1 (G.hs)

### ADSL2 Compliance

ITU-T G.992.3 (G.dmt.box) Annex A/J/K/L/M

ITU-T G.992.4 (G.lite.bis) Annex A

### ADSL2+ Compliance

ITU-T G.992.5 Annex A/L/M

### ATM and PPP Protocols

VC and LLC based multiplexing

ATM Adaptation Layer Type 5 (AAL5)

Multiple Protocol over AAL5 (MPoA)

PPP over Ethernet (PPPoE)

PPP over ATM (PPPoA)

OAM F4/F5

### Wireless Data Transfer Rate

802.11g: 54 ~ 6 Mbps

802.11b: 11 ~ 1 Mbps

### Number of Channels

Ch.1 ~ 11 USA

Ch.1 ~ 13 EU, Japan

### Operating Frequency

2.4 ~ 2.4835 GHz

### Antennas

1x 2dBi Removable Antenna

### Wireless Security

WEP 64/128-bit Web share key encryption

WPA-PSK, WPA2-PSK

128-bit TKIP/AES encryption

SSID Broadcast On/Off

### Wireless Distribution System

One-to-Many Peer APs (Max: 4)

### Firewall

DoS Detection

NAT Firewall with SPI mode

Virtual Server, DMZ

Schedule-Based MAC, Packet and URL Filtering

### QoS Support

Port Number and IP Address Traffic Prioritization

Support DiffServ Approach

### IPTV Application

IGMP Snooping

Virtual LAN (VLAN)

### 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,

Call Forward (Busy / No Answer / Unconditional), Call

Hold / Retrieve, Caller ID Display / Blocking, Anonymous

Call Blocking

QoS control to ensure higher voice quality

CNG/VAD/Adaptive Jitter Buffer support

PSTN backup is VoIP Fails

DTMF: In-band/out-of-band(RFC2833)/SIP INFO

Tone Generation/Detection

Dialing rules for VoIP/PSTN routing control

### Other Features

DDNS Supported, UPnP Supported, NTP Time Server,

VPN Pass-Through (PPTP, IPSec, L2TP)

### Management and Configuration

Quick Installation Wizard

Web-Based GUI Configuration

Auto VPI/VCI Detection

Telnet remote and local management

Syslog monitoring

SNMP v3, MIB-I and MIB-II support

### Firmware Upgrade

Web-based (HTTP)

### Supported Operating Systems

Windows 2000/XP/Vista/Mac OSX/Linux

### Power Adapter

DC12V / 1.2A

### Operating Temperature

0°C ~ 40°C / 85% Humidity

### Storage Temperature

-20°C ~ 70°C / 95% Humidity

### Dimensions

210mm(L) x 148mm(W) x 36mm(H)

Wall Mount Brackets

### Certifications

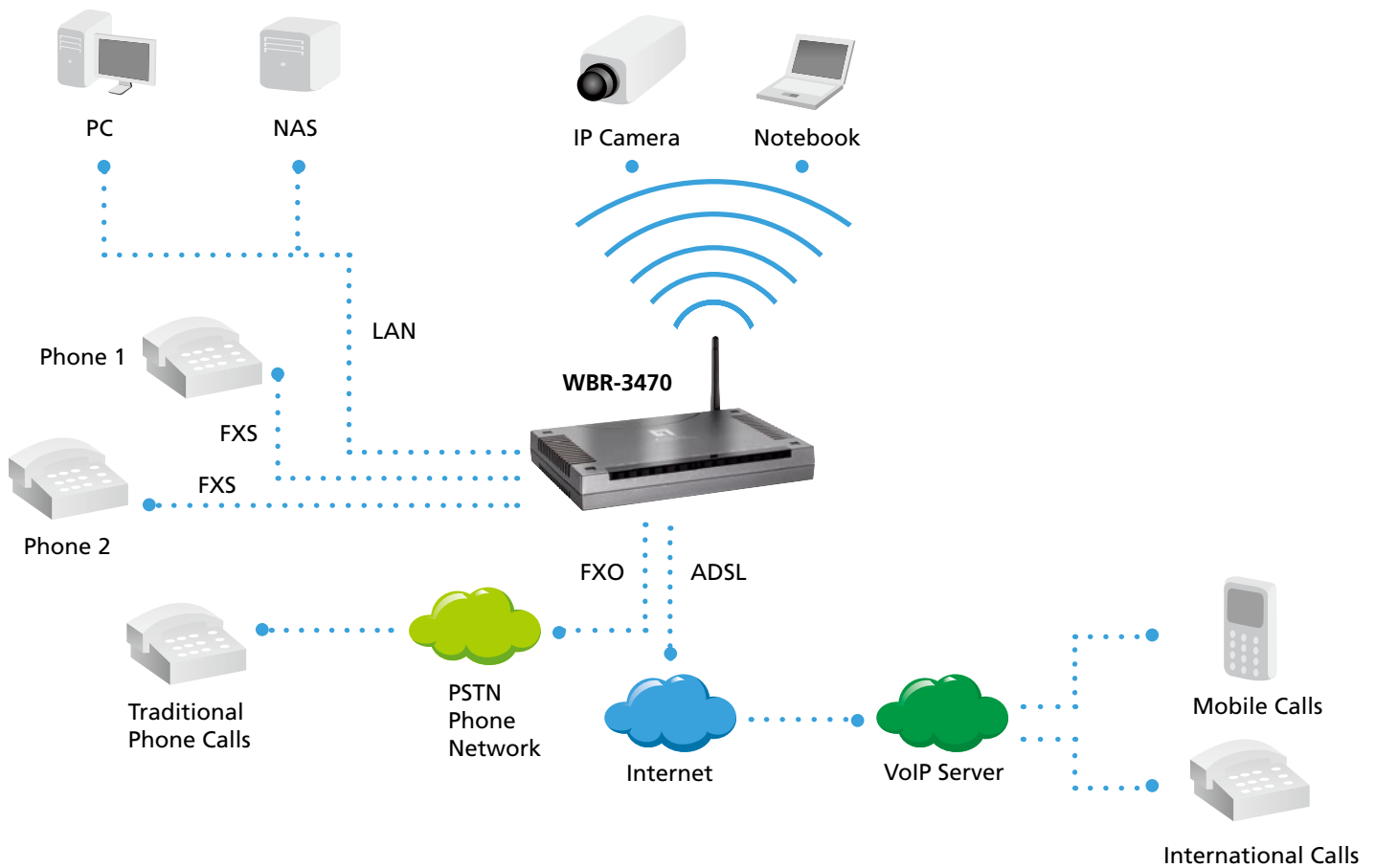
CE, FCC

### Standards Compliant

IEEE 802.11g, IEEE 802.11b,

IEEE 802.3x, IEEE 802.3, IEEE 802.3u

## Product Diagram



## Order Information

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

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

## Package Content

WBR-3470  
Antennas x1  
RJ11 ADSL Cable  
RJ45 Ethernet LAN Cable  
Power Adapter  
Quick Installation Guide  
CD Manual