



## VoIP WIRELESS ROUTER

### INTERNET PHONE CONNECTION

2 FXS ports to connect to 2 analog phones for Internet phone calls

### SMOOTH, QUALITY VOICE

VLAN and prioritized voice traffic for smooth and secure voice communication over the Internet

### SAVE MONEY ON PHONE CALLS

Make phone calls anywhere in the world at little or no charge using the Internet



### INTERNET PHONE MADE FOR HOME & SOHO

The D-Link DVG-G5402SP VoIP Wireless Router allows you to take advantage of your DSL/cable modem connection to make inexpensive Internet phone calls. It combines the industry's latest Voice over the IP network technology with advanced communication features, and is compatible with industry-wise phone service. This VoIP Router connects you to up to two ordinary phone sets to let you make phone calls.

### SUPERIOR VOICE QUALITY

The DVG-G5402SP incorporates Quality of Service (QoS) to ensure that voice received through the Internet is the same as or even surpasses that received on the ordinary phone. It supports many useful functions such as call transfer, caller ID display, 3-way conference, phone book, speed dialing and hot lines to make it convenient to dial out or answer phone calls.

### COMPLETE SECURITY

The DVG-G5402SP supports voice VLAN to isolate your voice communication so it cannot be tapped over the network. It provides a lifeline phone port to relay your incoming and outgoing phone calls to PSTN in case when a power down occurs. This guarantees that your phone connection will always be available.

### INTEGRATED WIRELESS 4-PORT ROUTER

The DVG-G5402SP provides a 802.11g standard wireless LAN and router function with built-in NAT/DHCP server to permit multiple computers to share an Internet broadband line. With four integrated Ethernet ports, four Ethernet-enabled computers and network devices can also connect to the DVG-G5402SP to log on to the Internet.

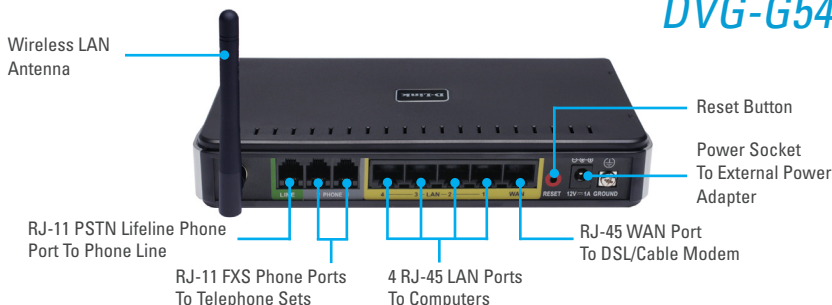
### WHAT THIS PRODUCT DOES

Connect the DVG-G5402SP to up to two ordinary phone sets, and you can make phone calls anywhere in the world using the Internet. This VoIP Wireless Router lets two people make Internet phone calls at the same time. It provides an 802.11g standard wireless interface and four LAN ports, so multiple computers can logon to the Internet while you're talking over the phone. This built-in wireless router function allows you and a group of users to enjoy phone service and Internet sharing from a single box.

### CLEAR, SMOOTH VOICE OVER THE INTERNET

This VoIP Wireless Router allocates resources for Internet activity while guaranteeing Quality of Service (QoS) for key applications such as Voice over the Internet. Network bandwidth management delivers smooth and clear voice communication, while increasing productivity and efficiency by tailoring your network system to specific demands such as time-sensitive VoIP and multimedia applications.

## DVG-G5402SP



### TECHNICAL SPECIFICATIONS

#### DEVICE INTERFACES

- + 2 RJ-11 FXS phone ports with polarity reversal detection and generation
- + 1 RJ-11 PSTN lifeline phone port
- + 1 RJ-45 10/100BASE-TX WAN port with auto-MDI/MDIX
- + 4 RJ-45 10/100BASE-TX LAN ports with auto-MDI/MDIX

#### GENERAL SIP FEATURES

- + Individual account per port or share account for all ports
- + Caller ID Delivery
- + Direct IP-to-IP Call without SIP Proxy
- + Digit Map and Phone Book
- + DNS SRV, SIP SRV
- + E.164 Numbering (with ENUM exception rule)
- + Group, Pick Up
- + Hot Line, Warm Line
- + Interactive Voice Response configuration (IVR)
- + Message Waiting Indication (SUBSCRIBE)
- + Visual Message Waiting Indication (SUBSCRIBE)
- + Music on hold
- + Outbound Proxy
- + SIP INFO
- + Three way conferencing (Ad Hoc mode, Media Server required)
- + Basic Call Features (Supplementary)
  - ANONYMOUS CALL BLOCKING
  - CALL BLOCK AND FILTER BY CALLER IP ADDRESS
  - CALL FORWARDING - BUSY
  - CALL FORWARDING - NO ANSWER
  - CALL FORWARDING - UNCONDITIONAL
  - CALL HISTORY (CALL STATUS)
  - CALL HOLD
  - CALL PICK UP
  - CALL PARK AND RETRIEVE (PROXY SUPPORT)
  - CALL TRANSFER (PROXY SUPPORT)
  - CALL WAITING
  - CALLING NAME AND TIME (FSK)
  - DO NOT DISTURB
  - CALLER ID BLOCKING

#### AUDIO FUNCTIONS

- + Adaptive Jitter Buffer
- + Adaptive Echo Cancellor
- + Automatic voice/fax/data Detection and Switching
- + Auto Gain Control (AGC)
- + Codec: G711  $\mu$ A-law, G729A/B/AB, G.723(6.3/5.3 kbps), G.726
- + Comfort Noise Generation (CNG)
- + DTMF Detection and Generation

- + In-band or Out of Band DTMF event
- + Packet Loss Concealment
- + Support voice/fax/modem (up to 33.6Kbps) over IP
- + T.30 FAX bypass thought G.711
- + T.38 real time FAX up to 14.4 kbps
- + Voice Activity Detection (VAD)
- + Caller ID detection and generation: DTMF, FSK-BellCore, FSK-ETSI

#### CONFIGURATION/MANAGEMENT

- + Automatic Provisioning (exclusion from TR069/TR104 option)
- + WEB User Interface
- + TELNET User Interface
- + Configuration Backup and Restore through Web UI
- + Call History (Received Call/Disabled Call/Missed Call)
- + Flat Call Detail Record output (CDR)
- + Network Time Protocol time synchronization (Default by D-Link NTP)
- + Password Security (Web UI and TELNET)
- + Ping Test
- + Reset configuration to factory default
- + SNMP v2 (exclusion from TR069/TR104 option)
- + Static and Default routes
- + System status
- + TFTP/FTP/HTTP Client for firmware upgrade
- + TR069/TR104 Client support (optional)

#### WAN CONNECTION

- + Big Pond Client
- + DHCP Client
- + PPPoE Authentication by PAP/CHAP
- + PPTP Client
- + Static IP

#### QoS

- + DiffServ (DSCP) or ToS IP Precedence tagging (WAN)
- + LAN port rate limit
- + WAN port rate limit (in step of 64Kbps)
- + WAN port priority queue: RTP first
- + 802.1Q and 802.1P Tagging (1 VID for VoIP traffic, 1 VID for LAN traffic)

#### NAT TRAVERSAL

- + STUN Client
- + DDNS Client
- + SIP and RTP Port Range Designation
- + Static Route

#### SECURITY

- + Built-in Firewall
- + IP Filtering
- + Port Filtering

- + MAC Filtering
- + Virtual Server
- + DMZ
- + Denial of Service Protection (DoS)
- + MD5 Authentication for SIP
- + Two privilege login control: Administrator and User
- + VPN Pass-through with Multiple Sessions (IPSec, PPTP, L2TP)

#### WIRELESS LAN

- + 802.11 b/g standard
- + Supports up to 64 client associations
- + Automatic RF channel selection
- + Wireless security: access control based on MAC addresses, 64/128-bit WEP data encryption, WPA/WPA support

#### DIAGNOSTIC LEDS

- + Power
- + Provision/Alarm
- + Register
- + WAN Link/Activity
- + WLAN Link/Activity
- + LAN Link/Activity (4 Ports)
- + Phone(2 Ports)
- + Line

#### INPUT POWER

Through 100 to 240VAC, 50/60Hz, 1A external power adapter

#### OUTPUT POWER

12VDC, 1A

#### DIMENSIONS

193 x 118 x 31 mm

#### OPERATING TEMPERATURE

-10° to 40° C

#### STORAGE TEMPERATURE

-20° to 60° C (-4° to 140° F)

#### OPERATING HUMIDITY

10% to 90% RH

#### STORAGE HUMIDITY

5% to 95% RH

#### EMISSION (EMI) CERTIFICATIONS

- + FCC Class B
- + CE Class B

#### TELECOM CERTIFICATION

- + FCC PART 68
- + CE TBR21