



## 2-PORT VoIP 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-5402SP VoIP 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-wide 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-5402SP 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-5402SP 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 4-PORT ROUTER

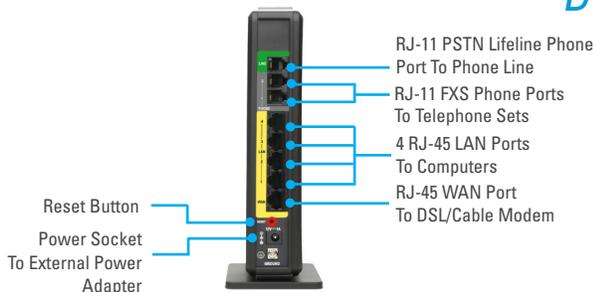
The DVG-5402SP provides a convenient router function to permit multiple computers to share an Internet broadband line. With four integrated Ethernet ports, four computers can connect to the DVG-5402SP and use its built-in NAT/DHCP server functions to log on to the Internet.

#### WHAT THIS PRODUCT DOES

Connect the DVG-5402SP to up to two ordinary phone sets, and you can make phone calls anywhere in the world using the Internet. This VoIP Router provides four LAN ports, so four computers at home can logon to the Internet while you're talking over the phone. This built-in router function allows you and your office workers to enjoy phone service and Internet sharing from a single box.

#### CLEAR, SMOOTH VOICE OVER THE INTERNET

This VoIP 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.



#### 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)

##### AUDIO FUNCTIONS

- + Adaptive Jitter Buffer
- + Adaptive Echo Cancellor
- + Automatic voice/fax/data Detection and Switching
- + Auto Gain Control (AGC)
- + Codec: G.711  $\mu$ A-law, G.729A/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 through 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)

##### DIAGNOSTIC LEDS

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

##### MTBF

150761 hrs

##### POWER CONSUMPTION

7.8W

##### INPUT POWER

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

##### OUTPUT POWER

12VDC, 1A

##### DIMENSIONS

120 x 70 x 203 mm

##### WEIGHT

346 grams

##### 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