D-Link

DVG-N5402SP

Multifunction Wireless VoIP Router with 2 FXS Ports, 1 USB Port, and Built-in 4-port Switch

2 FXS PORTS	USB PORT	SECURITY
Support of 2 analog phones, good quality of voice transmission	Support of USB modem for Internet connection via 3G/2G network, USB storage, and printer	Multiple firewall functions, several security standards for wireless connection

SIP Telephony

The VoIP router is equipped with two FSX ports which allow connection of analog phones for calls via Internet.

USB Port

The router is equipped with a USB port for connecting a USB modem,which can be used to establish connection to the Internet. In addition, to the USB port of the router you can connect a USB storage device, which will be used as a network drive, or a printer.

Wireless Interface

Using the DVG-N5402SP device, you are able to quickly create a high-speed wireless network at home or in your office, which lets computers and mobile devices access the Internet virtually anywhere (within the operational range of your wireless network). The router can operate as an access point for connecting wireless devices of the standards 802.11b, 802.11g, and 802.11n (at the rate up to 300Mbps). You can easily switch the router's wireless network on/off by pressing the WLAN button located on the cover of the device.

The router supports multiple functions for the wireless interface: several security standards (WEP, WPA/WPA2), MAC address filtering, WPS, WMM.

Security

The wireless router DVG-N5402SP includes a built-in firewall. The advanced security functions minimize threats of hacker attacks and prevent unwanted intrusions to your network.

Configuration and Management

You can configure and manage the settings of the wireless router DVG-N5402SP via the user-friendly web-based interface (the interface is available in several languages).

DVG-N5402SP
Specifications

Hardware

WAN Interface
- 1 10/100/1000BASE-TX Ethernet port for cable or DSL modem or private Ethernet line

LAN Interface
- 4 10/100/1000BASE-TX Ethernet ports

WLAN Interface
- IEEE 802.11n (up to 300Mbps)
- IEEE 802.11b/g

FXS Interface
- 2 FXS ports for connecting analog phone or fax machines

USB Interface
- USB 2.0 type A port for USB modem, storage, or printer

Frequency Range
- 802.11b
  - 2400 ~ 2484MHz ISM band
- 802.11g
  - 2400 ~ 2484MHz ISM band
- 802.11n
  - HT20: 2400 ~ 2483.5MHz ISM band
  - HT40: 2422 ~ 2452MHz ISM band

Data Rate
- 802.11b
  - 11, 5.5, 2, and 1Mbps per channel, auto fallback
- 802.11g
  - 54, 48, 36, 24, 18, 12, 9, and 6Mbps per channel, auto fallback
- 802.11n
  - HT20: up to 150Mbps
  - HT40: up to 300Mbps

Modulation Schemes
- 802.11b: CCK, DQPSK, DBPSK
- 802.11g: 64QAM, 16QAM, QPSK, BPSK, DSSS
- 802.11n: 64 QAM, 16QAM, QPSK, BPSK

Software

General SIP Features
- Individual account per port
- Invite with Challenge
- Register by SIP server IP address or domain name
- RFC3986 SIP URI format support
- Outbound proxy support
- Session timers (update/re-invite)
- DNS SRV Support
- Call types: voice/modem/fax
- User programmable Dial Plan
- Manual peer table (for P2P calls)
- E.164 Numbering, ENUM support

Call Features
- Direct IP-to-IP call without SIP proxy
- Call hold / retrieve
- Call awaiting
- Forwarding (unconditional, busy, no answer)
- Do Not Disturb
- MWI (Message Waiting Indication)
- Anonymous call blocking
- CLIR
- Speed dialing
- Hotline

Voice Features
- Codecs: G.711 a/μ-law, G.729A, G.726, G.722
- DTMF detection and generation
- Comfort Noise Generation (CNG)
- Voice Activity Detection (VAD)
- Adaptive (Dynamic) Jitter Buffer
- Call progress tone generation (FXS)
- Programmable Gain Control
- In-band DTMF, out-of-band DTMF (RFC2833, SIP-INFO)
- DTMF/PULSE dial support
- Caller ID detection and generation
- T.30 FAX bypass to G.711, T.38 Real Time FAX Relay

DVG-N5402SP
Specifications

Network Functions
- WAN connection types:
  - 3G
  - PPPoE
  - Static IP
  - Dynamic IP
  - PPTP/L2TP
  - PPTP/L2TP + Static IP
  - PPTP/L2TP + Dynamic IP
- DHCP server and client
- DNS relay
- VPN pass-through (PPTP/L2TP)
- Dynamic DNS
- Static IP routing
- Remote management
- Network statistics for each interface
- IGMP Proxy
- RIP
- UPnP
- Support of VLAN
- WAN ping respond

USB Modem[*]
- Auto connection to available type of supported network (3G/2G)
- Enabling/disabling PIN code check, changing PIN code

USB Storage
- SMB-based access
- Built-in FTP server
- Print server
- Access to storage via accounts

Wireless Connection
- Supported security settings:
  - WEP
  - WPA/WPA2 Personal
  - WPA/WPA2 Enterprise
- MAC filter
- PIN and PBC methods of WPS
- WMM (Wi-Fi QoS)
- Advanced settings

Torrent Client
- Uploading/downloading files from/to USB storage

Firewall Functions
- Network Address Translation (NAT)
- Stateful Packet Inspection (SPI)
- IP filters
- MAC filter
- URL filter
- DMZ
- Prevention of ARP and DDoS attacks
- Virtual servers

Configuration and Management
- Multilingual web-based interface for configuration and management
- Access via TELNET
- Firmware update via web-based interface
- Saving/restoring configuration to/from file
- Support of remote logging
- Automatic synchronization of system time with NTP server and manual time/date setup
- Ping function
- Traceroute utility

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* For GSM USB modems only.

DVG-N5402SP
Specifications

Supported USB Modems[*]
- GSM modems
  - D-Link DWM-152
  - D-Link DWM-156
  - Huawei E160G
  - Huawei E169G
  - Huawei E171
  - Huawei E220
  - ZTE MF112
  - ZTE MF192
  - ZTE MF626
  - ZTE MF627
  - ZTE MF652
  - ZTE MF668
  - ZTE MF752
- CDMA modems
  - Airplus MCD-650
  - Airplus MCD-800
  - AnyDATA ADU-300A
  - AnyDATA ADU-500A
  - AnyDATA ADU-510A
  - ZTE AC5710
  - ZTE AC5730

Physical and Environmental

LEDs
- POWER
- WAN
- 4 LAN LEDs
- WLAN
- WPS
- USB
- 2 FXS LEDs

Power
- External power adapter DC 12V/1.25A
- Power on/off button
- Reset to Factory Defaults button
- WPS button
- WLAN on/off button

Operating Temperature
- From 0 to 40 ^{0}C (from 32 to 104 ^{0}F)

Storage Temperature
- From -20 to 70 ^{0}C (from -4 to 158 ^{0}F)

Operating Humidity
- From 10% to 90% non-condensing

Storage Humidity
- From 5% to 95% non-condensing

Ordering Information
DVG-N5402SP

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Web: http://www.dlink.com/corporate/worldwideoffices/

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[*]   The manufacturer does not guarantee proper operation of the router with every modification of the firmware of USB modems.