

Product Highlights

FXS PORT

Support of analog phone, good quality of voice transmission

802.11N

High connection rate (up to 300Mbps) and superior wireless range

IPV6 SUPPORT

All needed functions for up-to-date networking

DVG-N5402SP

Wireless Router with 1 FXS Port

Voice

The VoIP router is equipped with an FXS port which allows connection of an analog phone for calls via Internet.

Wireless Interface

Using the DVG-N5402SP device, you are able to quickly create a 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 a base station for connecting wireless devices of the standards 802.11b, 802.11g, and 802.11n (at the rate up to 300Mbps).

Secure Wireless Connection

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

In addition, the device is equipped with a button for switching the Wi-Fi network off/on. If needed, for example, when you leave home, you can easily switch the router's WLAN by pressing the button, and devices connected to the LAN ports of the router will stay online.

Advanced Capabilities of Wireless Network

Support of guest Wi-Fi network allows you to create a separate wireless network with individual security settings. Devices connected to the guest network will be able to access the Internet, but will be isolated from the devices and resources of the router's LAN.

Security

The wireless router DVG-N5402SP includes a built-in firewall. The advanced security functions minimize threats of hacker attacks, prevent unwanted intrusions to your network, and block access to unwanted websites for users of your LAN.

In addition, the router supports IPsec and allows to create secure VPN tunnels.

Built-in Yandex.DNS service protects against malicious and fraudulent web sites and helps to block access to adult content on children's devices.



Easy configuration and update

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

The fast and easy configuration wizard allows you to specify all needed parameters in several simple steps.

You can simply update the firmware: the router itself finds approved firmware on D-Link update server and notifies when ready to install it.

Hardware	
Processor	· BCM5358B0KFBG
RAM	· 64MB, DDR2 SDRAM
Flash	· 16MB, SPI
Interfaces	 10/100BASE-TX WAN port 4 10/100BASE-TX LAN ports FXS port
LEDs	 POWER WAN 4 LAN LEDs WLAN WPS FXS1
Buttons	 ON/OFF button to power on/power off RESET button to restore factory default settings WPS button to set up wireless connection WLAN button to enable/disable wireless network
Antenna	• Two internal omnidirectional Airgain antennas (5dBi gain)
МІМО	· 2 x 2
Power connector	Power input connector (DC)
Mounting	 Desktop Wall

Phone	
General SIP Features	 Invite with Challenge Register by IP address or domain name of SIP server Backup proxy support Support of DHCP option 120 RFC3986 SIP URI format support Outbound proxy support STUN client NAT public IP address NAT keep-alive Session timer (re-invite) Call types: voice/modem/fax User programmable Dial Plan Manual peer table (for P2P calls) E.164 Numbering, ENUM support



Phone	
Call Features	 Direct IP-to-IP call without SIP proxy Call hold / retrieve Call awaiting Forwarding (unconditional, busy, no answer) Do Not Disturb Anonymous call blocking Speed dialing Phone book Hotline Vertical service codes CLIR Filtering by IP address (white/black list) Call logging
Voice Features	 Codecs: G.711 a/µ-law, G.729A, G.726, G.722 DTMF detection and generation In-band DTMF, out-of-band DTMF (RFC2833, SIP-INFO) Comfort Noise Generation (CNG) Voice Activity Detection (VAD) Adaptive (Dynamic) Jitter Buffer Call progress tone generation (FXS) DTMF/PULSE dial support Caller ID detection and generation T.30 FAX bypass to G.711, T.38 Real Time FAX Relay Volume control (speaker/microphone)

Software	
WAN connection types	 PPPoE IPv6 PPPoE PPPoE Dual Stack Static IPv4 / Dynamic IPv4 Static IPv6 / Dynamic IPv6 PPPoE + Static IP / Dynamic IP (PPPoE Dual Access) PPTP/L2TP + Static IP PPTP/L2TP + Dynamic IP
Network functions	 DHCP server/relay Stateful/Stateless mode for IPv6 address assignment, IPv6 prefix delegation DNS relay Dynamic DNS Static IP routing Static IPv6 routing IGMP Proxy RIP Support of UPnP IGD Support of VLAN WAN ping respond Support of SIP ALG Support of RTSP Autonegotiation of speed, duplex mode, and flow control/Manual speed and duplex mode setup for each Ethernet port Built-in UDPXY application



Software	
Firewall functions	 Network Address Translation (NAT) Stateful Packet Inspection (SPI) IP filter IPv6 filter MAC filter URL filter DMZ Prevention of ARP and DDoS attacks Virtual servers Built-in Yandex.DNS web content filtering service
VPN	IPsec/PPTP/L2TP/PPoE pass-through IPsec tunnels
Management	 Local and remote access to settings through TELNET/WEB (HTTP/HTTPS) Bilingual web-based interface for configuration and management (Russian/English) Notification on connection problems and auto redirect to settings Firmware update via web-based interface Automatic notification on new firmware version Saving/restoring configuration to/from file Support of logging to remote host Automatic synchronization of system time with NTP server and manual time/date setup Ping utility Traceroute utility TR-069 client

Wireless Module Parameters	
Standards	· IEEE 802.11b/g/n
Frequency range	· 2400 ~ 2483.5MHz
Wireless connection security	 WEP WPA/WPA2 (Personal/Enterprise) MAC filter WPS (PBC/PIN)
Advanced functions	 Support of client mode WMM (Wi-Fi QoS) Information on connected Wi-Fi clients Advanced settings Guest Wi-Fi / support of MBSSID Autonegotiation of channel bandwidth in accordance with environment conditions (20/40 Coexistence)
Wireless connection rate	 IEEE 802.11b: 1, 2, 5.5, and 11Mbps IEEE 802.11g: 6, 9, 12, 18, 24, 36, 48, and 54Mbps IEEE 802.11n: from 6.5 to 300Mbps (from MCS0 to MCS15)
Transmitter output power The maximum value of the transmitter output power depends upon the radio frequency regulations applied in your country	· Less than 20dBm (100mW)
Receiver sensitivity	 802.11b (typical at PER = 8% (1000-byte PDUs) at room temperature 25 °C) -76dBm at 11Mbps 802.11g (typical at PER = 10% (1000-byte PDUs) at room temperature 25 °C) -68dBm at 54Mbps 802.11n (typical at PER = 10% (1000-byte PDUs)) HT20 -67dBm at MCS7 HT40 -64dBm at MCS7



Wireless Module Parameters	
Modulation schemes	 802.11b: DQPSK, DBPSK, DSSS, CCK 802.11g: BPSK, QPSK, 16QAM, 64QAM with OFDM 802.11n: BPSK, QPSK, 16QAM, 64QAM with OFDM

Physical Parameters	
Dimensions (L x W x H)	· 182 x 119 x 39 mm (7.2 x 4.7 x 1.5 in)
Weight	· 280 g (0.6 lb)

Operating Environment	
Power	· Output: 12V DC, 1.25A
Temperature	 Operating: from 0 to 40 °C Storage: from -20 to 70 °C
Humidity	 Operating: from 10% to 90% (non-condensing) Storage: from 5% to 95% (non-condensing)

Delivery Package

- · Router DVG-N5402SP
- · Power adapter DC 12V/1.25A
- Ethernet cable (CAT 5E)
- · RJ-11 telephone cable
- · "Quick Installation Guide" (brochure)

