D-Link®
Building Networks for People

Wireless ADSL2/2+ VoIP Router

With Integrated 2-Port Internet Phone Gateway

- **High-Speed ADSL2/2+ Connection**
- **2 Internet Phone Connections**
- **Integrated 802.11g Wireless LAN & 4-Port Switch**
- **PSTN Life Line & USB Port**
- **DoS & SPI Firewall Protection**
- **QoS & SNMP Management Support**

FEATURES

High-Speed ADSL2/2+ Access
- ADSL: G.992.1 G.dmt, G.992.2 G.lite, ANSI T1.413 Issue 2 (Full Rate DMT Over Analog POTS) Annex A
- ADSL2: G.992.3 (G.dmt.bis) Annex A
- ADSL2+: G.992.5 Annex A
- G.994.1 G.hs Auto-Negotiation of Different ADSL Flavors
- ADSL Port Supports Static IP, DHCP & PPPoE

Internet Phone Connection
- 2 FXS Port for 2 Telephone/Fax Connections
- SIP Protocol Support
- PSTN Lifeline Port

Office Computer Connection
- Built-in 802.11g WLAN Up to 54Mbps Speed
- Integrated 4-Port Ethernet Switch
- Built-in USB Port

Firewall/Access Security
- DoS Attack Prevention
- Stateful Packet Inspection (SPI)
- IP/MAC-Based Packet Filtering
- Port-Based VLAN

QoS/Bandwidth Control
- Traffic Prioritization With 4 Priority Queues
- IGMP Snooping Multicast

Setup/Management
- Domain Name System (DNS)
- Universal Plug and Play (UPnP) Compliant
- Quick Installation Wizard
- Web-Based GUI for Local/Remote Management
- SNMP Management

The D-Link DVA-G3340S wireless ADSL VoIP router is a comprehensive device includes integrated ADSL2/2+ interface, 2-port VoIP gateway, 802.11g wireless LAN and 4-port Ethernet switch. Supporting ADSL download speeds of up to 24Mbps, firewall protection and Quality of Service (QoS), this router provides all the functions that an office needs to establish a convenient and secure high-speed Internet link to the outside world.

High-Speed ADSL Connection. This wireless ADSL VoIP router features the latest ADSL2/ADSL2+ standards, providing speeds of up to 24Mbps downstream and 1Mbps upstream (ADSL2+), or 12Mbps downstream and 1Mbps upstream (ADSL2). This router auto-senses the connection type and auto-negotiates the best modulation scheme, using the G.hs (handshake) protocol.

2 Internet Telephone Connections. 2 integrated FXS ports provide 2 Internet phone connections. Plug in regular phone sets to these ports, and they become Internet telephones. For offices with frequent needs for long-distance and international phone calls, this router provides an easy and inexpensive upgrade to Internet telephony. This built-in VoIP gateway extends your past spending in telephones, conference speakers phones and fax machines, as well as to control your migration to IP with an affordable, incremental investment. A PSTN lifeline allows the phone sets connected to the DVA-G3340S to accepts normal analog calls in case of an Internet disconnection or a power failure.

Ready Wireless LAN & Ethernet Connection for Workgroup. The DVA-G3340S provides an integrated 802.11g WLAN supporting wireless speeds of up to 54Mbps and interoperability with 802.11b wireless devices on the 2.4GHz frequency band. 4 built-in Ethernet ports and a USB interface provide ready wired connection to 5 computers. These built-in functions save you the cost and trouble of installing a separate wireless access point and an Ethernet switch.

Firewall Protection. This router provides firewall security using Stateful Packet Inspection (SPI) and hacker attack logging for Denial of Service (DoS) attack protection. SPI inspects the contents of all incoming packet headers before deciding what packets are allowed to pass through. Access control is provided with packet filtering based on port and source/destination MAC/IP addresses. With Virtual Server Mapping, multiple LAN ports and DMZ support, you can set up separate FTP and web servers while hiding your office computers behind an Internet-visible IP address for protection against hackers. VPN pass-through lets mobile users access files and mail from offices to work at home without having to use complex VPN client software.

Quality of Service Features. 4 priority queues enable your office to experience the benefit of smooth network connection without concern of traffic congestion. This QoS support allows you to enjoy high ADSL transmission for applications such as VoIP, multimedia and large file transfer over the Internet.

DVA-G3340S

Technical Specifications

Device Interfaces
- 1 RJ-11 ADSL port (to phone line)
- 2 RJ-11 FXS ports (to analog phones)
- 1 RJ-11 PSTN port (lifeline to phone line)
- 4 RJ-45 10/100BASE-TX Ethernet LAN ports with auto MDI/MDIX (to computers)
- 802.11g WLAN (AP wireless connection to computers)
- 1 USB 1.1 Type B port (to computer)
- Factory reset button
- Power ON/OFF switch

ADSL
Standards
- ADSL standards: ANSI T1.413 Issue 2, ITU G.992.1 (G.dmt) Annex A, ITU G.992.2 (G.lite) Annex A
- ADSL2 standards: ITU G.992.3 (G.dmt.bis) Annex A, ITU G.992.4 (G.lite.bis) Annex A
- ADSL2+ standards: ITU G.992.5 Annex A
- Auto-handshake: ITU G.994.1 (G.hs)

Data Rates
- G.dmt: 8Mbps downstream, 832Kbps upstream
- G.lite: 1.5Mbps downstream, 512Kbps upstream
- ADSL2: 12Mbps downstream, 1Mbps upstream
- ADSL2+: 24Mbps downstream, 1Mbps upstream

ATM & PPP Protocols
- ATM Adaptation Layer Type 5 (AAL5)
- Bridged or routed Ethernet encapsulation
- VC and LLC based multiplexing
- PPP over Ethernet (PPPoE)
- PPP over ATM (RFC 2364)
- Classical IP over ATM (RFC 1577)
- OAM F4/F5

VoIP
VoIP Protocol Support
SIP (RFC 3261)

Audio Code
- G.711u-law/A-law
- G.723.1
- G.726
- G.729A

Echo Cancellation
G.168

Telephone Function Support
- DTMF dial tone signal support
- Caller ID support

Fax Function Support
Transparent fax (G.711)

VoIP NAT Traversal
SIP

Wireless LAN
Standards
- 802.11g
- 802.11b

Data Rates
(With automatic fallback)
- For 802.11g:
  54, 48, 36, 24, 18, 12, 9 and 6Mbps
- For 802.11b:
  11, 5.5, 2 and 1Mbps

Wireless Frequency Range
2.4GHz to 2.4835GHz

Antenna
2dBi Gain detachable diversity dipole antenna with reverse SMA connector

Transmit Output Power
16 to 18 dBm

Transmission Technology
DSSS

Data Modulation Type
DBPSK, DQPSK, CCK, PBCC and OFDM (BPSK/QPSK/16-QAM/64-QAM)

Security
- 64-, 128-, 256-bit WEP data encryption
- MAC address filtering
- WPA EAP
- WPA PSK
- 802.1x User Authentication
- 802.1Q SSID broadcast enable/disable
- Multiple SSIDs

Router
Network Protocols & Features
- NAT/NAPT (RFC 1631) supporting 4096 NAT sessions
- RIP v.1 (RFC 1058)
- RIP v.2 (RFC 1389)
- Static Routing
- DNS
- TCP/UDP
- ARP/RARP (RFC 826)
- ICMP (RFC 791)
- DHCP Server/Client (RFC 2131)
- IP Multicast
- IGMP Proxy/Snooping
- UPnP Compliant
- Virtual Server/Port Forwarding
- DMZ
- SNTP/NTP

Firewall/Access Security
- Built-in NAT firewall
- Stateful Packet Inspection (SPI)
- DoS attacks prevention (IP Spoofing, Land Attack, Smurf Attack, Ping of Death, TCP SYN flooding)
- Packet filtering based on port, source IP address, destination IP address, MAC address (ICMP/TCP/UDP)

Virtual Private Network (VPN)
PPTP/L2TP/IPSec pass-through

Configuration/Management
- Quick Installation Wizard
- Web-based GUI for remote/local management
- Firmware upgrade, configuration data upload/download via Web-based GUI
- Telnet server for remote/local management
- Syslog monitoring
- SNMP v.1, v.2c support with built-in MIB-I & MIB-II (RFC 1213)
- DHCP server/client

QoS Control
802.1p traffic prioritization (4 queues)

Security/Bandwidth Management
- IGMP Snooping
- PVC/VLAN port mapping (4 VLANs)

Diagnostic LEDs
- Power
- Status
- WLAN Link/Activity
- USB
- LAN Link/Activity (per LAN port)
- CA
- Phone VoIP/PSTN, Hook/Ring (per FXS port)
- ADSL

Physical & Environmental
Power Input
Through 12VAC 1.2A external power adapter

Dimensions
235 x 162 x 36 mm

Weight
543 grams

Operating Temperature
0°to 40°C

Storage Temperature
-20° to 70°C

Operating Humidity
5% to 90% non-condensing

Emission (EMI)
- FCC Part 15 Class B
- CE (EN55022/EN55024/EN300 328/EN301 489)
- A-Tick

Safety
CSA

D-Link Worldwide Offices

U.S.A.	TEL: 1-800-326-1688	FAX: 1-866-743-4905	**Luxemburg**	TEL: 32-(0)2-517-7111	FAX: 32-(0)2-517-6500
Canada	TEL: 1-905-8295033	FAX: 1-905-8295223	**Poland**	TEL: 48-(0)-22-583-92-75	FAX: 48-(0)-22-583-92-76
Europe (U. K.)	TEL: 44-20-8731-5555	FAX: 44-20-8731-5511	**Hungary**	TEL: 36-(0)-1-461-30-00	FAX: 36-(0)-1-461-30-09
Germany	TEL: 49-6196-77990	FAX: 49-6196-7799300	**Singapore**	TEL: 65-6774-6233	FAX: 65-6774-6322
France	TEL: 33-1-30238688	FAX: 33-1-30238689	**Australia**	TEL: 61-2-8899-1800	FAX: 61-2-8899-1868
Netherlands	TEL: 31-10-282-1445	FAX: 31-10-282-1331	**India**	TEL: 91-022-26526696	FAX: 91-022-26528914
Belgium	TEL: 32(0)2-517-7111	FAX: 32(0)2-517-6500	**Middle East (Dubai)**	TEL: 971-4-3916480	FAX: 971-4-3908881
Italy	TEL: 39-02-2900-0676	FAX: 39-02-2900-1723	**Turkey**	TEL: 90-212-289-56-59	FAX: 90-212-289-76-06
Sweden	TEL: 46-(0)8564-61900	FAX: 46-(0)8564-61901	**Egypt**	TEL: 202-414-4295	FAX: 202-415-6704
Denmark	TEL: 45-43-969040	FAX: 45-43-424347	**Israel**	TEL: 972-9-9715700	FAX: 972-9-9715601
Norway	TEL: 47-99-300-100	FAX: 47-22-309580	**LatinAmerica**	TEL: 56-2-232-3185	FAX: 56-2-232-0923
Finland	TEL: 358-9-2707 5080	FAX: 358-9-2707-5081	**Brazil**	TEL: 55-11-218-59300	FAX: 55-11-218-59322
Spain	TEL: 34-93-4090770	FAX: 34-93-4910795	**South Africa**	TEL: 27-12-665-2165	FAX: 27-12-665-2186
Portugal	TEL: 351-21-8688493		**Russia**	TEL: 7-095-744-0099	FAX: 7-095-744-0099 #350
Czech Republic	TEL: 420-(603)-276-589		**China**	TEL: 86-10-58635800	FAX: 86-10-58635799
Switzerland	TEL: 41-(0)-1-832-11-00	FAX: 41(0)-1-832-11-01	**Taiwan**	TEL: 886-2-6600-0123	FAX: 886-2-6600-8168
Greece	TEL: 30-210-9914 512	FAX: 30-210-9916902	**Headquarters**	TEL: 886-2-6600-0123	FAX: 886-2-6600-9898