

4/8-Port VoIP Trunk Gateways

- Connects Remote IP Phone Network to 4 or 8 Local Analog Phone Lines
- Voice Compression Format to Save Internet Bandwidth
- Real-Time/Toll-Quality Voice
- Integrated 4-Port Switch/Broadband Router

FEATURES

VoIP trunk

- 4 or 8 FXO Ports
- Compatible With SIP Services
- Extensive Call Feature Support
- Guaranteed Toll-Quality Voice Even in Busy Network

Call Features

- Call Hold, Wait, Forward, Transfer
- Speed Dialing, Repeat Dialing, 3-Way Conference
- Greeting Message, Caller ID Delivery
- Easy Tracking With Call Detailed Records

WAN/LAN Connection

- 10/100Mbps Ethernet WAN Port
- 4 10/100Mbps Ethernet LAN Ports
- WAN Connection Supports PPPoE, DHCP Client, DDNS

Configuration/Upgrade

- Easy Configuration by IVR or Web-Based GUI
- Web-Based Firmware Upgrade

Built-in Router/Firewall

- DHCP Server for Automatic IP Assignment
- IP Sharing for Multiple Users Access Via Single IP
- NAT Firewall, DoS Attack Prevention

The D-Link DVG-6004S/DVG-6008S VoIP trunk gateways connect an IP network to POTS (plain old telephone service) analog lines to send IP voice and data to the conventional phone sets and fax machines. Designed as a cost-effective VoIP solution for a small to medium-sized business and the branch office, these devices provide 4 or 8 FXO (Foreign eXchange Office) ports for 4 or 8 phone line connections. IP network connection can be through any of the 4 LAN ports or the WAN port (all 10/100BASE-TX Ethernet interfaces).

For Office Use. In a remote IP phone to local analog phone line application, a branch office can take in IP voice calls from a head office, then route them to local destinations equipped with only analog phones. The remote office pays only for the local analog phone time. The gateways connect analog callers to the IP network without involving operators or incurring toll charges from telephone companies.

The DVG-6004S/DVG-6008S VoIP gateways can be deployed to interface VoIP infrastructure with a Public Switched Telephone Network (PSTN). They allow analog phone callers to place calls through the long-distance trunk line. The gateways accept dial tone and ring current from the connected equipment, and facilitate the use of conventional phone sets and fax machines on a VoIP network.

Guaranteed Voice Quality. The DVG-6004S/DVG-6008S gateways deliver clear sound, voice and reliable fax calling through implementation of internationally recognized standards for voice and data networking. They incorporate Quality of Service (QoS) functions to ensure that voice received through is the same as or even surpasses that received on the ordinary phone.

Convenient Call Features. The DVG-6004S/DVG-6008S gateways support extensive call features, allowing the service providers to offer these functions to their subscribers. Provided that the telephone sets at the end-users side support these functions, callers can take advantage of these convenient features. Configuration of individual phone connection is easy, using the multi-language Interactive Voice Response (IVR) or the web-based user's interface.

Shared Broadband Connection/Integrated 4-Port Switch. The gateways provide a convenient router function to permit office users to share the broadband line. With 4 integrated Ethernet ports, office computers can readily connect to these gateways and use their built-in NAT/DHCP server functions for automatic logon.



▪ DVG-6004S
4-Port Gateway



▪ DVG-6008S
8-Port Gateway

Technical Specifications

VoIP

Analog Interface

- DVG-6004S: 4 RJ-11 FXO ports
- DVG-6008S: 8 RJ-11 FXO ports
- Loop start signaling protocol
- Reversed polarity detection

Voice Features

- SIP (RFC3261) compatible
- SIP method: ACK, BYE, CANCEL, INFO, INVITE, NOTIFY, OPTIONS,
- PING, PRACK, PUBLISH, REFER, REGISTER, SUBSCRIBE, UPDATE
- SIP Extension: Session Timer (UPDATE or re-INVITE), Proxy Required, P-Asserted (RFC3325), MWI (RFC3842)
- Voice CODEC: G.711 a/u law, G.726, G.729A, G.723.1
- CNG (Comfort Noise Generation)
- VAD (Voice Activity Detection)
- Silence suppression/detection
- G.165/G.168 echo cancellation
- Adaptive Jitter Buffer and programmable Gain Control
- In-Band DTMF, Out-Of-Band DTMF relay (RFC2833, SIP INFO)
- Multiple SIP Proxy server entries with fail-over mechanism
- T.30 (G.11) / Real time T.38 / Secured T38 FAX relay
- DTMF, FSK (Bellcore & ETSI) Caller ID detection and generation
- Caller ID Restriction (CLIR) support
- FXO hang up detection: Busy Tone cadence auto learning/detection
- Single Number / Account for multiple ports
- Group hunting function
- Digit Map
- E.164 Numbering & ENUM support
- Recordable greeting message
- Hot-Line, Warm-Line support

Call Features

- Call Hold, Call Waiting, Call Pickup
- Call Forward - Unconditional, Busy, No Answer
- Call Transfer - Unattended, Attended
- Speed Dialing, Repeat Dialing, Three Way Calling (Media Server required)

IP Network

WAN Port

- RJ-45 10/100BASE-TX Ethernet port supporting Nway auto-negotiation, auto-detection/adjustment of MDI/MDIX
- Static IP, PPPoE, PPTP, Bigpond Cable and DHCP address assignment support
- QoS: IP TOS (IP Precedence), DiffServ, Port Priority
- NAT traversal: STUN, UPnP, OUTBOUND PROXY
- Pass-through NAT
- NAP: (Network Time Protocol RFC 1305), accepts up to 3 Time Servers Time Zones
- DDNS: DynDns.org, TZO, PeanutHull, 3322.org.
- RTP Packet Summary: packet sent, packet received, packet loss
- MAC address clone

LAN Ports

- 4 RJ-45 10/100BASE-TX Ethernet ports supporting NWay auto-negotiation, auto-detection/adjustment of MDI/MDIX
- NAT/PAT, DHCP Server, DMZ, Virtual Server, MAC/IP/port-based filtering
- QoS: port based priority (Hi/Low) with rate limit
- Router or Bridge Mode

DoS Prevention

- Attack prevention based on TCP, UDP, IP, ICMP protocols
- Prevents SYN Flood, IP Spoofing, Ping of Death, Tear Drop DoS attacks

Operation & Maintenance

Management/Configuration

- Web-based & Telnet user interfaces with password authentication
- Configuration, port status, registration status, hardware/software information in web-based & Telnet UI
- IVR (Interactive Voice Response) configuration engine
- Reset button (factory default setting restoration)
- Optional Auto Provisioning Server (APS) for mass deployment with less dispatch
- SNMP v.1/v.2c support
- Ping test

Diagnostic LEDs

- Voice ports
- WAN port
- LAN ports
- Run
- Power
- Alarm

Physical & Environmental

Power Input

- DC 12V
- Through AC 100V to 240V 50/60Hz input power adapter

Dimensions

- DVG-6004S: 202 x 172 x 35 mm
- DVG-6008S: 302 x 179 x 45 mm

Weight

- DVG-6004S: 430 grams
- DVG-6008S: 1.2 kg

Operating Temperature

0° to 45°C

Storage Temperature

-25° to 75°C

Operating Humidity

Up to 90%RH, non-condensing

Certification

- FCC Class B
- CE

Safety

- UL



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: 7-495-744-0099	FAX: 7-495-744-0099 #350
Czech Republic	TEL: 420-(603)-276-589		Japan	TEL: 81-3-5781-0963	FAX: 81-3-5781-0965
Switzerland	TEL: 41-(0)-1-832-11-00	FAX: 41(0)-1-832-11-01	China	TEL: 86-10-58635800	FAX: 86-10-58635799
Greece	TEL: 30-210-9914 512	FAX: 30-210-9916902	Taiwan	TEL: 886-2-6600-0123	FAX: 886-2-6600-8168
			Headquarters	TEL: 886-2-6600-0123	FAX: 886-2-6600-9898