



— DVG-1402

2-Port VoIP Station Gateway

With Built-in 4-Port Switch

The D-Link DVG-1402 VoIP Station Gateway allows 2 ordinary telephone sets to plug in to become IP telephones. This Gateway lets you make phone calls using the Internet or any IP network. Voice is packed into IP format packets for transmission, so phone calls bypass the PSTN normally used for voice communication. Its biggest benefit is a reduction of the high cost associated with normal long-distance and international phone calls. The DVG-1402 combines IP Telephony functions with IP remote routing to provide you with easy broadband access and voice/data convergence on a single network. In addition, 4 Ethernet switch ports are provided for ready server/workstation connection.

Save Long-Distance Phone Charge

The Gateway receives voice and data services over a single network connection. Expensive long-distance and international phone calls over the ordinary telephone service can be avoided altogether. You make and receive voice calls over the same line that you use to connect to the Internet, and pay the same Internet connection charge, plus a service charge to your Service Provider.

2 FXS Ports

Through a 10/100BASE-TX Ethernet port, the DVG-1402 connects directly to your company network or the broadband line (DSL or cable modem), without going through any PBX. It provides 2 FXS (Foreign Exchange Station) ports (2 RJ-11 phone sockets) for connection to 2 telephone sets or fax machines.

Simple Operation

You simply plug in any ordinary telephone sets to the phone sockets on the Gateway, then operate your telephone as you normally do. All destination numbers must be registered with your Internet Telephony Service Provider or Proxy Server. You dial your server's code, then your destination number; the Internet Telephony Service Provider or Proxy Server will map your number with the destination.

Guaranteed Voice Quality

The Gateway incorporates Quality of Service (QoS) functions to ensure that voice received is almost the same as that received on the ordinary phone. To allow for a smooth voice reception, voice packets get a higher priority over data packets on the network packet stream. Other capabilities include echo cancellation, silence suppression/comfort noise generation (when there is a prolonged silence), adaptive jitter buffer and lost voice packet recovery.

Built-in Router for Shared Broadband Internet Connection

The Gateway provides built-in router function to permit sharing of the broadband line for Internet access in your office. Built-in NAT and DHCP server functions automatically create an IP address and assigns it for each user, simplifying everyone's logon operation. NAT also provide firewall protection for your network, blocking and redirecting certain ports to limit the services that outside users can access your network.

Built-in 4-Port Ethernet Switch

For LAN connection, the Gateway incorporates 4 10/100Mbps Ethernet ports, providing ready connection for workstations and servers. This saves you the cost and trouble of installing a separate Ethernet switch.

Product Functions/Features

- 2 analog loop-start FXS interfaces for connection to 2 phones/fax machines
- SIP and MGCP protocol support *
- 10/100Mbps WAN port for Internet broadband connection
- 4 10/100Mbps LAN ports for connection to servers/workstations
- PPPoE for dial-up broadband connection
- Caller ID function
- Comfort Noise Generation (CNG), Voice Activity Detection (VAD), echo cancellation (G.168), Adaptive jitter buffer for a smooth voice reception
- Silence suppression to reduce bandwidth consumption
- Lost packet recovery to improve voice quality
- Priority Queues QoS (Quality of Service) to guarantee voice quality
- IP address assignment using DHCP or static configuration
- IP Routing supporting RIP1, RIP2 and Static Routing
- IP sharing for multiple users Internet access via a single IP address
- IPsec and PPTP VPN pass-through
- Remote software download/update
- Configuration download using HTTPS and SSL/TLS client certificate encryption/authentication

* MGCP available upon request

DVG-1402

Technical Specifications

VoIP Station Gateway

Device Ports

- 2 FXS RJ-11 ports
- 10/100BASE-TX RJ-45 port for DSL/cable modem connection
- 4 10/100BASE-TX RJ-45 ports for LAN connection
- RJ-14 port console port

WAN Function Support

PPP over Ethernet Client PPPoE (RFC 2516)

Internet Support

- IP, TCP, UDP, ARP protocols
- HTTP 1.1
- DHCP client
- DNS

VoIP Protocol Support

- MGCP *
- SIP

* MGCP available upon request

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
- Dial pulse support
- Caller ID support

Fax Function Support

Transparent fax (G.711)

Others

- Call waiting alert tone support
- Play ring splash to phone when system ready with registered

QoS

Priority Queues TOS Type of Service: 3 levels supported (Normal, Signaling, RTP packets)

Built-in Router

IP Packet Routing

- DHCP/NAT
- IP filtering
- TCP/IP with RIP v.1, RIP v.2 (RFC 1389), Static Routing
- ICMP (RFC 791)
- UDP (RFC 792)
- ARP (RFC 826)

VPN Support

IPSec and PPTP pass-through

IP Multicast

- IGMP Proxy
- Multicast forwarding

Internet Gateway

- Dynamic Host Configuration Protocol (DHCP) server/client (RFC 2131)
- Network Address Translation (NAT)

Configuration & Management

Administration Support

- Telnet
- Web-based
- Out-of-band through console port

User Authentication

- PPP Authentication Protocol (RFC 1334)
- Challenge Handshake Authentication Protocol with PPP (RFC 1994)

Statistic Monitoring

DSP/Ethernet statistics

Firmware Upgrade, Configuration Backup/Restore

TFTP support

IP Number Assignment

DHCP server

Self Identification

- DHCP client
- Bootp

Physical & Environmental

LED Indicators

- Power
- Status
- ADSL Link/Act
- LAN 10 or 100Mbps Speed (per LAN port)
- Phone On/Off/Ringing (per FSX port)

Power Input

12VDC 1.25A, through external power adapter

Power Consumption

10 watts (max.)

Dimensions

193 (L) x 118 (W) x 30 (H) mm (device only)

Operating Temperature

0° to 40°C

Storage Temperature

-10° to 55 °C

Humidity

5% to 95% non-condensing

EMI

- FCC Class B
- CE

Safety

CB (IEC60950)



Ordering Information

DVG-1402 2-Port VoIP Station Gateway With 4-Port Switch

Please specify your order as follows:

DVG-1402S For SIP Protocol
DVG-1402M For MGCP Protocol *

* MGCP available upon request

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