

## 16/32-Port VoIP Station Gateway

### High Port Density Gateway for Business

- 16 or 32 FXS Internet Phone Ports
- DSL/Cable Modem Broadband Connection
- Voice Compression Format to Save Internet Bandwidth
- Real-Time/Toll-Quality Voice
- High Port Densities to Save Cost/Maintenance

#### FEATURES

##### Internet Telephone

- High Density of 16 or 32 FXS Ports
- Ideal for Business Phones/Fax Connection
- Compatible With SIP Services
- Extensive Call Feature Support
- Guaranteed Toll-Quality Voice Even in Busy Network

##### Call Features

- Call Hold, Wait, Forward, Transfer
- Easy Tracking With Call Detailed Records
- Greeting Message, Caller ID Delivery

##### WAN/LAN Connection

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

##### Configuration/Upgrade

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

The DVG-2016S/DVG-2032S VoIP station gateways present an ideal Internet telephone solution for business use. These gateways convert voice traffic into data packets for transmission over the Internet, combine the industry's latest Voice over the IP network technology with advanced communication features, and are fully compatible with SIP Internet phone services. With high port densities, they provide a low cost of ownership, convenience and great savings for companies needing to place frequent long-distance and international business calls.

*Cost Saving and Investment Protection.* The DVG-2016S/DVG-2032S gateways provide businesses with an easy and inexpensive upgrade to Internet telephony while allowing them to retain their existing telephone and fax equipment. These devices allow businesses to protect and extend their past investments in telephones, conference speakers phones and fax machines, as well as to control their migration to IP with a very affordable and incremental investment.

*16 or 32 Internet Telephone Connections.* Each gateway provides 16 or 32 FXS ports for simultaneous Internet phone connections. Plug in regular phone sets to these ports, and they instantly become Internet telephones. For businesses with frequent needs for long-distance and international phone calls, these devices provide great cost savings and convenience, while keeping configuration and maintenance to a minimal level.

*Guaranteed Voice Quality.* The DVG-2016S/DVG-2032S gateways deliver clear voice and reliable phone/fax communication through implementation of internationally recognized standards for voice and data networking. They incorporate Quality of Service (QoS) functions to ensure that voice received through the Internet is the same as or even surpasses that received on the ordinary phone.

*Convenient Call Features.* The DVG-2016S/DVG-2032S 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.



▪ DVG-2016S  
16-Port Gateway



▪ DVG-2032S  
32-Port Gateway

## Technical Specifications

### Device Interfaces

- 16 FXS ports in 1 RJ-21 connector (DVG-2016S)
- 32 FXS ports in 2 RJ-21 connectors (DVG-2032S)
- 10/100BASE-TX RJ-45 WAN port
- 10/100BASE-TX RJ-45 LAN port

### WAN Access Types

- DHCP client
- PPPoE client
- Static IP address
- PPTP
- BigPond Cable (Australia)
- MAC cloning on WAN port

### Router

- DHCP Server
- Virtual Server
- Port-triggered special application
- DMZ
- Port filter
- IP filter
- MAC filter
- URL filter
- RIP v.1, v.2
- Static Route
- DDNS: DynDns.org, TZO, 3322.ORG, Peanut Hull
- NAT Traversal: pass-through NAT, STUN client, UPnP Control Point

### Phone Book

- Phone Book Manager Server (selected version), up to 200 IAD registrations
- Phone Book Manager Client

### Network & Firewall

- NTP (Network Time Protocol) support
- DoS prevention engine (configurable)

### QoS

- SIP and RTP always first policy
- WAN access rate control
- IP Precedence, DSCP (DiffServ) tagging on SIP and RTP packets
- LAN port rate limit, hi/low queue control

### SIP

- By port registration
- By IAD registration
- Mixed configuration of "By Port" and "By IAD" on the same IAD
- Outbound Proxy
- Session Timer: Update, Re-Invite
- E.164 Numbering
- Redundant SIP PROXY support (fail-over by registration)
- SIP PING (on special version)
- Adjustable NAT port binding interval (binding with Proxy)
- CLIR (anonymous caller ID)
- Hot line/warm line
- Group hunting, configurable hunting sequence
- Support one-way media (SIP 183)
- Call hold
- Call waiting
- Call transfer: attended, unattended
- Call forward: unconditional, busy, no answer
- 3-way conference compatible with NORTEL MCS5200
- T.30 fax pass-through
- T.38 fax relay
- Adjustable fax tone detection level
- Out-of-band DTMF: RFC2833, SIP INFO

### Telephony Features

- G.711 a/u, G.726 (32K), G.729A, G.723.1
- Adjustable jitter buffer
- Adjustable packet time (by Codec type)
- Silence detection and suppression

- Echo cancellation
- Digit map defines number length by leading digits, route assignable
- Local phone book enables calling to other VoIP devices without registration
- Speed dial
- Caller filter accept/deny caller by IP address
- On machine user-recorded prompt message
- FXS caller ID generation: DTMF, FSK (Bell core/ETSI)
- End of digit tone (inform user complete codes accepted)
- Configurable dial-way timeout/inter-digit timeout/DTMF on-off length
- Adjustable listening & speaking volume (-6 to +6db)
- Adjustable tone volume (1 to 5)
- Adjustable FLASH time

### Management

- Web-based & Telnet
- By Provision Server
- 2 privilege WEB login accounts
- 3 web languages by default (English, traditional Chinese, simplified Chinese)
- System information shows device status and registration status
- Per call RTP packet summary
- PING test
- STUN inquiry

### LED Indicators

- Power
- Reset
- Alarm
- Run
- 1 to 16 (DVG-2016S)
- 1 to 32 (DVG-2032S)

## Physical & Environmental

### Power Input

- 90 to 260 VAC, 50/60Hz internal universal power supply

### Dimensions

- 442 x 330 x 43 mm
- 19-inch standard rack-mount width, 1U height

### Weight

- DVG-2016S: 4.1 kg
- DVG-2032S: 4.4 kg

### Operating Temperature

0° to 45°C

### Storage Temperature

-25° to 75°C

### Humidity

Up to 95% non-condensing

### EMI

- FCC Class A
- CE

### Safety

- UL



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