

VG Series Multi Gateway

- Protocol: SIP & MGCP
- Up to 96 FXO/S ports and Max 96 concurrent calls
- 500 routing and number manipulation rules
- Hot-swappable FXS/FXO interface cards
- Dual-redundant Gigabit-Ethernet ports
- Optional dual AC/DC power supplies
- Class I lighting protection



VG Series Gateway

The VG5X series is a cost-effective, high-performance VoIP gateway with up to 96 FXS and FXO ports, targeting multi-tenant, large contact center and enterprise telephone communication applications, in which reliability and easy maintenance are critical. Powered by innovative VoIP technology from VOPTech, the VG5X allows users to apply it as an N-to-1 system capable of connecting analog phone, fax and POS machine, IP telephony, and PSTN.

Comprehensive Feature Set

As an intelligent gateway running on embedded Linux operating system, the VG5X supports an advanced feature set such as call forward, call transfer, 3-way calling, caller ID, DND, color ringback, call forking, automatic routing, Digit map and much more, to provide a complete and highly reliable VoIP solution applicable to most scenarios. Carrier-class

Carrier-class Reliability

VG5X supports high availability configuration including SIP registration failover, load balance as well as PSTN failover, with reliable 1+1 redundancy of gigabit Ethernet ports and power supplies (optional), ensuring no loss of service and minimizing the communications downtime.

Investment Protection

is a significant part of VOPTech VoIP product development focus, providing better returns for the customers who invest in VoIP products by maintaining compatibility with newest VoIP technologies via software upgrading, avoiding repeated investments.



Your Access to VOIP

Technical Data

Key Features

- ◆ SIP/MGCP protocols
- 500 routing and number manipulation rules
- ◆ Fax over IP using T.38 fax relay and automatic switching between voice/fax
- Hot-swappable FXS/FXO interface card
- Dual redundant gigabit Ethernet ports
- ◆ Dual AC/DC power supplies available
- ◆ PSTN failover
- Auto provisioning
- Remote access via third-party Network Management System (TR-069, SNMP)
- ◆ Interoperability with popular SIP servers, such as Cisco CallManager, Broadsoft, Huawei IMS, and Asterisk/Elastix
- Class I lightning protection

Protocols

◆ Call Control

SIP/UDP and SIP/TCP (RFC3261), IMS (3GPP), MGCP (RFC3435)

Network

Telnet, SSH, HTTP, HTTPS, DHCP/PPPoE client, Radius, DNS (A/SRV record), STUN

Media processing

◆ Caller ID

Bellcore Type 1&2, ETSI, BT, NTT, and DTMF-based CID

◆ Codec

G.711 (a/µ), G.729a, G.723.1, GSM, iLBC

♦ DTMF

In-band audio, RFC2833, SIP-INFO

♦ Hook-flash

Local processing, RFC2833, SIP-INFO

♦ Fax over IP

Auto-switch to T.38 from G.711 Fax pass-through, Fax data pump V.21/V.27ter/V.29 for T.38 compliant Fax Relay up to 9.6 kbps

♦ Disconnect modes

Polarity reversal, Busy tone detection, Loop current

◆ Voice Quality Enhancement

Echo cancellation (G.168-2004), Jitter buffer, Silence suppression (VAD, CNG), PLC

Voice

♦ Caller Transfer

Blind transfer, Consultative transfer

♦ Call Forward

Call forward all, Call forward no answer, Call forward busy

Call Setting

Routing based on the caller or callee number, Digit map, 3-way calling, Speed dialing, Do not disturb, Call forking, Color ringback tone, Hunt group, Ring cadence, Message Waiting Indicator (MWI)

Security

♦ User-defined Ports

SIP port, RTP port, HTTP/HTTPS port to access the Web GUI

♦ Access list

IP addresses allowed to access HTTP/HTTPS/

Telnet/SSH service

VolP

SIP-allowed IP addresses

Encryption

Encrypted password/PIN

◆ Intrusion Prevention

Ping blocking

QoS

♦ QoS

DiffServ、TOS、802.1P/Q VLAN

High Availability

◆ Redundancy

Primary-Standby, Active-Standby, Load balancing

Failover

PSTN failover upon power or network failure

Provisioning, Administration and Maintenance

◆ Device Management

TR-069 management (TR-069, TR-104, and TR-106), SNMP

♦ Auto Provisioning

Download configuration file via TFTP/FTP/ HTTP/HTTPS, Obtaining ACS address via DHCP option 66 or redirection

◆ Log Management

8-leave logs, Syslog

♦ Data Capture

Port capture, Packet capture

♦ Status and Statistic

Call status and history, Device status monitoring and statistics collection

Upgrade

Firmware upgrade via Web GUI

Hardware

- ◆ CPU 1Ghz
- ◆ Voice DSP Module 200 MHz, 3 to 12 modules
- **♦ RAM** 256MB, DDR3
- ♦ Flash 32MB

Port capture, Packet capture

◆ Single/Dual AC power supplies

100 to 240 VAC, 50/60 Hz, 2A maximum

◆ Single/Dual DC power supplies

-36 to -72 VDC, 4A

- **♦ Mounting** Rack
- **♦** Operating

Temperature: 32 to 104° F (0 to 40° C), Humidity: 10 to 90% RH (non-condensing)