NEOGATE TG Series

VoIP GSM/CDMA Gateway for Cost Reduction

VoIP **GSM/CDMA** **SMS** **USSD** **Carrier Selection**

Firewall **VLAN** **DDNS** **VPN** **QoS**

NeoGate TG series is a series of VoIP GSM/CDMA gateway connecting GSM/CDMA Network to VoIP Network directly, which can support two-way communication: GSM/CDMA to VoIP or VoIP to GSM/CDMA.

It is the best solution ever to connect IP-based telephone systems, and softswitches to GSM/CDMA network; and also the best fallback solution when landline goes down.

Benefits

- **Cost saving**

Save phone bills tremendously with mobile-to-mobile calls

- **Back up**

Work as a cost-effective backup when the landline network goes down

- **Easy to install**

Everything can be easily set up in the Web based management interface

- **Easy to integrate**

High compatibility with major IP-PBX and softswitch brands

TG100   TG200   TG400   TG800   TG1600

Interface & Voice Processing

- Mobile: 1/2/4/8/16 GSM/CDMA Channels
- LAN: 1 (10/100Mbps)
- Antenna splitter (4 in 1): TG400/800/1600
- Protocol: SIP, IAX2
- SIP Trunk: Support
- SIP Peer Mode
- SIP server for IP phones included
- SIP Response Code Switch
- Session Timer
- Call Progress Tone Generation
- 1 Stage/2 Stage Dial
- Transport: UDP, TCP, TLS, SRTP
- Voice Codec: G.711 (alaw/ulaw), G.722, G.726, G.729A, GSM, ADPCM, Speex
- Echo Cancellation: ITU-T G.168 LEC
- DTMF Mode: RFC2833, SIP INFO, In-band

System Features

- Calling Type: Termination (VoIP to GSM/CDMA), Origination (GSM/CDMA to VoIP)
- GSM/CDMA Ports Group Manage
- VoIP Trunk Group
- Incoming /Outgoing Routing rules
- White List and Black List
- Hotline
- Call Duration Limitation
- Call Transfer
- Call Waiting
- Call Back
- Call Detail Record (CDR)
- Call Status Display
- NTP
- IP Blacklist
- Network Attack Alert
- Packet Capture
- System Logs
- Real Open API Protocol (Based on Asterisk)

Mobile Features

- GSM Frequency: 850/900/1800/1900MHz
- CDMA Frequency: 800MHz
- SMS Sending and Receiving
- Send Bulk SMS
- SMS Center
- Gain Adjustment
- USSD
- PIN Modify
- Carrier Selection: Auto/Manual
- Balance Alarm
- Caller ID/CLIR
- Open API for SMS and USSD

Network & Management

- Network Protocol: UDP, TCP, TFTP, HTTP, SSH
- NAT Traversal: Static NAT, STUN
- Static Route
- OpenVPN
- Firewall
- VLAN
- QoS/ToS
- DDNS
- Configure backup/restore
- Firmware upgrade by HTTP/TFTP
- Web based configuration

Environment

	Dimensions (mm)	Power Supply
TG100	110x70x24	AC 100~240V/50~60 Hz (DC 12V, 1A)
TG200	213x160x44	100-240V 50/60 Hz 0.5A MAX
TG400	213x160x44	100-240V 50/60 Hz 0.5A MAX
TG800	340x210x44	100-240V 50/60 Hz 1.5A MAX
TG1600	440x280x44	AC 100-240V 50/60Hz

- Operation Range: 0°C to 40°C, 32°F to 104°F
- Storage Range: -20°C to 65°C, -4°F to 149°F
- Humidity: 10-90% non-condensing