Techroutes
N E T W O R K

Next Generation WG3100 Series

GSM VoIP Gateway

Product Overview

Techroutes series GSM VoIP Gateway is a kind of multi-functional product used to effectively implement the smooth transition between mobile and VoIP network. It is fully compatible with SIMCloud / SIMbank solution and easy to use. Moreover, with built-in antenna power divider, it is saving space and much easier to install and maintain.

Voice Capability

- G.711A/U law, G.723.1, G.729A/B
- Silence Suppression & Detection
- Comfort Noise Generation(CNG)
- Voice Activity Detection(VAD)
- Echo Cancellation(G.168)
- Adaptive (Dynamic) Jitter Buffer
- Call Progress Tone Generation
- Programmable Gain Control

Network Protocol

- IP v4, UDP/TCP, PPPoE, DHCP, FTP/TFTP ARP,RARP, NTP
- VPN PPTP
- Encryption: RC4,MD5 (Coming Soon)
- IP v6 (Coming Soon)
- HTTP, Telnet

Key Benefits

1/4/8/16/32 GSM Channels
SMS Sending and Receiving
GSM: Quad-band 850/900/1800/1900MHz
USSD, Open API for SMS/USSD
BCCH
PSTN and VoIP Hotline
Carrier Selection
1/2/4/8/16/32 Concurrent Calls
PIN Code Management
Flexible Dial Rules and Manipulation Rules
Remote SIM Card Management(SIMCloud)

Features List

- SIP V2.0 RFC3261
- SDP RFC2327
- Session Timer RFC4028
- RTP/RTCP RFC3551
- SIP Registration
- SIP Trunk (Peer Mode)
- SIP Trunk Group
- Ringback (Immediately, Alerting)
- Configurable SIP Release Code
- DNS SRV/A Query
- Outbound Proxy
- DTMF Mode: Signal/RFC2833
- NAT Traversal
- Dynamic NAT, Static NAT, STUN

Mobile Features

- Frequency Range:
  GSM: 850/900/1800/1900MHz
- SMS/SMSC/USSD
- SMS Coding/Decoding: ASCII/UCS2
- Open API Protocol
- PIN Code Management
- Call Duration Limitation for SIM Card/Single Call
- Polarity Reversal （GSM)
- Answer Delay (CDMA)
- Carrier Selection
- Caller ID Restriction for Outgoing Call
- BCCH Management
- Call Waiting
- Call Forwarding

Physical Properties

- Power Supply
  Input:100-240V,50-60Hz
  Output: DC12V 4.0A
- Power Consumption:
  WG3000-4G: 20w
  WG3000-8G: 25w
- Temperature(Operation): 0 ℃ ～ 45 ℃
  (Storage): -20 ℃ ~80 ℃
- Operation Humidity: 10%-90%
- No Condensation
- Dimension(W/D/H): 250*156*32.5mm
- Weight: 1.069kg
- Package Weight: 2.05kg

Physical Interface

- SIM Card Slot: 1/4/8/16/32 Channels
- Ethernet Interface: 2 10/100M Base-Tx RJ45
- Console: 1* RS232 115200bps
- Antennas Connectors: SMA
- LED Indicators: PWR, RUN, Signal Strength, On/Off- hook
- Reset Button
- SIM Card Installation
  Local SIM/Remote SIM with SIM Bank

Maintain & Upgrade

- Web Based Configuration
- Telnet Configuration
- Configure Backup/Restore
- Support English and Chinese language
- Firmware upgrade by HTTP/TFTP
- Web & Telnet Login Password Modify
- Factory Reset
- CDR (10000 Lines CDRs Storage Locally)
- Output CDR via Syslog
- Syslog
- Ping and Traceroute Test
- Traffic statistics: TCP,UDP,RTP
- VoIP Call Statistics
- PSTN Call statistics: ASR,ACD,PDD
- Voice Dialogist with Loopback
- IVR Customization
- System Logs

Ordering Information

- **WG-3100-1G: Single Port GSM G/w**
- **WG-3100-4G: Four Port GSM G/w**
- **WG-3100-8G: Eight Port GSM G/w**
- **WG-3100-16G: Sixteen Port GSM G/w**
- **WG-3100-32G: Thirty Two Port GSM G/w**