



## DWG2000G(V221) GSM/CDMA/WCDMA VoIP Gateway

Dinstar DWG2000G GSM/CDMA/WCDMA VoIP Gateway is a multi-functional product used to effectively implement the smooth transition between PLMN (Mobile) and VoIP network. The DWG2000G gateway is designed for comfort, ease-of-use to satisfied necessary of customers. It is not only inherits tradition of quality voice communication over IP network but reduce the human resource of VoIP network deployment. It's a cost-effective gateway for call termination (VoIP to GSM) and origination (GSM to VoIP). It is fully compatible with leading Soft-switch and SIP server.

### Product Pictures



### Key Features

- 32 GSM Channels with 128 SIM Slots, Easy to Conduct SIM Rotation Locally
- GSM: 850/900/1800/1900MHz; CDMA: 800MHz; WCDMA: 850/900/1900/2100MHz
- Built-in Bandwidth Saving, Signaling & RTP Encryption
- HTTP API for Bulk SMS
- Auto Call/SMS Generation
- Auto Update SIM Number and Balance Check
- No Balance Alarm and Call Minutes Limitation

# Honesty Concentration

## Voice Processing

- Protocol: SIP v2.0, RFC3261
- Codecs:G.711A/U law, G.723.1, G.729A/B
- Silence Suppression
- Comfort Noise Generator(CNG)
- Voice Activity Detection(VAD)
- Echo Cancellation: G.168 with up to 128ms
- Dynamic Jitter Buffer
- DTMF: RFC2833, SIP Info
- Call Progress Tone Generation
- Programmable Gain Control
- NAT: STUN, Dynamic NAT, Static NAT

## Mobile

- SIM Interface: 1.8v, 3.0v SIM Interface
- Frequency Range:
  - GSM: 850/900/1800/1900MHz; CDMA: 800MHz
  - WCDMA:850/900/1900/2100MHz
- USSD Encoding: Unicode/ASCII
- HTTP API for SMS
- Polarity Reversal
- PIN Modify
- Carrier Auto/Manual Selection
- CID/CLIR
- BCCH
- SMS Send and Receive
- SMS to Email
- Call Waiting/Call Back
- Call Forward
- GSM Audio Coding: HR, FR,EFR, AMR\_FR,AMR\_HR

## Software Features

- Calling Type:
  - Mobile to VoIP, VoIP to Mobile
- SIP Trunk and Trunk Group
- Caller/Called Number Manipulation Rules
- SIP Codes Mapping
- White/Black List
- PSTN Hotline
- VoIP Hotline
- Password authentication for incoming and outgoing calls
- Abnormal Call Monitor
- Call Minutes Limitation for Ports/Single Call
- Auto SMS/Call Generation
- Balance Check
- Low Balance Alarm
- Auto Update SIM Number
- Random Call Interval
- Abnormal Call Monitor
- SIM Rotating by
  - SIM Run Time
  - SIM Balance
- Bandwidth Saving
- Signaling & RTP Encryption
- VOS RC4 Encryption

# Innovation Open-mind

## Network

- Static IP, DHCP Client, PPPoE
- Network Protocols:
- TCP/UDP,TFTP, FTP, RTP/ RTCP,  
SSH,ARP,RARP,ICMP Ping, NTP, HTTP, DNS
- Static/Dynamic ARP Request

## Maintenance

- Web/Telnet Configuration
- Configure Backup/Restore
- Firmware Upgrade by HTTP/TFTP
- Factory Reset
- CDR (10000 Lines CDRs Storage Locally)
- Syslog/Filelog
- Ping and Tracert
- Traffic statistics: TCP,UDP,RTP
- VoIP Call Statistics
- PSTN Call statistics: ASR,ACD,PDD
- Voice Dialogist with Loopback
- GSM Network Dialogist
- IVR Customization
- Auto Provisioning
- SIP/RTP/PCM Capture

## Physical Interface

- Mobile: 32 GSM Channels
- SIM Card Slots: 128
- Ethernet Interfaces:  
2\*10/100 Base-T, RJ45
- LED Indicators: Power, RUN,  
Signal Strength Indicators
- Console:  
1\* RS232 115200bps

## Environmental

- Power Supply:  
100-240VAC,50-60Hz
- Power Consumption: 68w
- Operating Temperature: 0 °C ~ 40 °C  
Storage Temperature: -20 °C ~80 °C
- Humidity: 10%-90% Non-Condensing
- Dimensions(W/D/H): 440×270×75mm
- Unit Weight: 4.7kg

