



# UC2000-VG Multi-SIM GSM&3G&LTE VoIP Gateway

## Overview

Dinstar UC2000-VG GSM/WCDMA/LTE VoIP Gateway is a multi-functional product used to effectively implement the smooth transition between PLMN (Mobile) and VoIP network. The UC2000-VG 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.

**UC2000-VG**



## Key Features

- 32 Mobile Channels with 128 SIM Slots, Easy to Conduct SIM Rotation Locally
- Supports to work with different mobile networks:
- Compatible with LTE-FDD/LTE-TDD/WCDMA/GSM Networks
- Supports Make Call through VoLTE
- Auto Call/SMS Generation
- Auto Update SIM Number and Balance Check
- No Balance Alarm and Call Minutes Limitation

## Voice Processing

**Protocol:** SIP v2.0, RFC3261, SIP TLS

**Codect:** 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

## Frequency Bands

### Type A.

FDD: B2/B4/B12 WCDMA: B2/B4/B5

### Type E.

FDD: B1/B3/B5/B7/B8/B20

TDD: B38/B40/B41

WCDMA: B1/B5/B8

GSM: 900/1800MHz

### Type V. FDD: B4/B13

### Type J.

FDD: B1/B3/B8/B18/B19/B26

TDD: B41 WCDMA: B1/B6/B8/B19

### Type AU.

FDD: B1/B2/B3/B4/B5/B7/B8/B28

TDD: B40 WCDMA: B1/B2/B5/B8

GSM: 850/900/1800/1900

\* UC2000-VG supports different frequency bands, please choose a dedicated type based on the region or operator.

## Software Features

### Calling Type:

Mobile to VoIP, VoIP to Mobile

SIP Trunk and Trunk Group

Caller/Called Number Manipulation Rules

White/Black List

PSTN Hotline

VoIP Hotline

Abnormal Call Monitor

Balance Check

Low Balance Alarm

Auto Update SIM Number

Random Call Interval

Auto CLIP

Signaling & RTP Encryption

SMPP for SMS

### SIM Rotating by

SIM Run Time

SIM Balance

## 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 Diagnose with Loopback

GSM Network Test

IVR Customization

Auto Provisioning

SIP/RTP/PCM Capture

## Mobile

USSD Encoding: Unicode/ASCII

HTTP API for SMS

Polarity Reversal

PIN Modify

CID/CLIR

SMS Send and Receive

SMS to Email

Call Waiting/Call Back

Call Forward

### GSM Audio Coding:

HR, FR,EFR, AMR\_FR,AMR\_HR

## 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

## Physical Interface

**Mobile:** 32 Channels

**Antennas Connectors:** SMA

### Ethernet Interfaces:

2\*10/100Base-T, RJ45

### LED Indicators:

Power, RUN, Signal Strength Indicators

### Console:

1\* RS232 115200bps

## Environmental

**Power Supply:**100-240V,50-60Hz

**Power Consumption:** 68w

### Temperature

Operation: 0 °C ~ 45 °C

Storage: -20 °C ~80 °C

### Operation Humidity:

10%-90% No Condensation

**Dimension(W/D/H):** 440×270×75mm

**Weight:** 4.7kg

**Package Weight:** 8.2kg

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## About Us

Founded in 2011 in Shenzhen, DINSTAR is a leading global provider of IP Unified Communication products including VoIP Gateways, IP PBXs, IP Phones and SBCs, we have been delivering more agile, efficient and affordable communication solutions and unparalleled communication experiences to our customers with our reliable, innovative and future-proof products for years. Through our value-added distributors and resellers worldwide, now DINSTAR serves telecom operators, service providers, system integrators, enterprises, SMBs and OEM partners in over 100 countries.