

# UC2000-VF GSM/LTE VoIP Gateway

## Overview

DINSTAR UC2000-VF series GSM/LTE VoIP Gateway is a 16 channels wireless gateway based on DINSTAR new hardware platform and powerful embedded CPU, leveraging state-of-art and latest VoIP / SIP technology, which enables the smooth transit between 4G/3G/2G mobile network and VoIP networks. Supporting up to 16 concurrent calls in a single 1U box, makes it an ideal choice for users.

Moreover, with open API, it allows users to build their own application software to send SMS/USSD messages or bulk SMS messages, or push their text messages from email, HTTP etc.

It is suitable for enterprises, multi-site organizations, call centers and areas with limited landline like rural area to cut down telephony costs and enable easy & efficient communications.

## Key Features

- Up to 16 Channels GSM or LTE
- Powerful Embedded CPU
- Compatible with LTE-FDD/LTE-TDD/WCDMA/GSM Networks
- Compatible with Mainstream VoIP Platform
- Hot Swappable SIM Cards
- Voice over LTE (VoLTE)
- HTTP API for SMS Application Integration
- SMS to Email & Email to SMS
- Flexible Dial Rules & Manipulation Rules
- Auto CLIP
- Remote SIMs Management (optional)

## UC2000-VF



## Hardware Interfaces

Mobile: 16 Channels

SIM Card slots: 16

Antennas Connectors: SMA

Ethernet Interfaces:

2\*10/100/1000 Base-T, RJ45

LED Indicators:

Power, RUN, Channel indicator

Console:

1\* RS232 (USB-B connector)

RST/PWR Button

## VoIP & Media

Protocol: SIP v2.0, RFC3261

SIP UDP/TCP/TLS

RTP/SRTP

Codecs:G.711A/U, G.723.1, G.729A/B, G.722, AMR, OPUS(TBD)

Silence Suppression

Comfort Noise Generator(CNG)

Voice Activity Detection(VAD)

Echo Cancellation

Dynamic Jitter Buffer

DTMF: RFC2833, SIP Info

Call Progress Tone Generation

Programmable Gain Control

NAT: STUN, Dynamic NAT, Static NAT

## Frequency Bands(2G/3G)

UC2000-VF-16G:

GSM Gateway: 850/900/1800/1900MHz

UC2000-VF-16W:

WCDMA Gateway with two options

A: WCDMA 850/1900MHz and GSM 850/900/1800/1900MHz;

B: WCDMA 900/2100MHz and GSM 900/1800MHz

## LTE Frequency Bands

UC2000-VF-16T VoLTE gateways with several options:

**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

## Software Features

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

Abnormal Call Monitor

Minutes Limitation for Ports/Single Call

Balance Check

Low Balance Alarm

Auto Update SIM Number

Random Call Interval

Auto CLIP Routing

Signaling & RTP Encryption(DBO)

Auto SIP Account

PPTP/L2TP/OpenVPN

## Mobile Features

SMS/USSD/PIN

Encoding: Unicode/ASCII

HTTP API for SMS

SMPP for SMS

Polarity Reversal

CID/CLIR

SMS Send and Receive

SMS to Email

Email to SMS

Auto SMS/Call Generation

Call Waiting/Call Back

Call Forward

Call Conference

GSM Audio Coding: HR, FR,EFR, AMR\_FR,AMR\_HR

## Maintenance

Web/Telnet Configuration

Configure Backup/Restore

Firmware Upgrade by HTTP

Factory Reset

CDR (10000 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

SIP/RTP/PCM Capture

SIMCloud Management

Centralized Management(DMS)

## Physical Features

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

Power Consumption: 38w

Temperature(Operation): 0 °C ~ 40 °C  
(Storage): -20 °C ~80 °C

Operation Humidity: 10%-90%

Dimension(W/D/H): 440×270×44mm

Unit Weight: 3.7kg

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### About Us

Shenzhen Dinstar Co.,Ltd. was founded in 2011, focusing on developing, manufacturing, and marketing of Next Generation Communication and Networking products, with headquarter in Shenzhen, China and branches in Beijing, Hangzhou, Hong Kong. Now we have more than 180 specialists, most of them coming from top-rank global telecommunication enterprises, who have dedicated themselves to VoIP, unified communication and wireless mobile network etc. for more than 18 years.