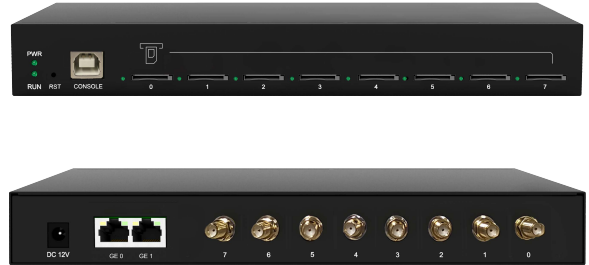# DINSTAR

UC2000-VE GSM/LTE VoIP **Gateway**

Overview

DINSTAR UC2000-VE series GSM/LTE VoIP Gateway is a multi-functional gateway which helps to effectively implement calls between 2G/3G mobile network and VoIP network. With new designed pop-up SIM card slot, users are able to change SIM card easily without dismantling equipment. Moreover, with the opened API, the users could build their own application software to send SMS/USSD messages or bulk SMS messages, or push their text messages from email, HTTP etc.

UC2000-VE

It has great performance in software features also in new hardware structure design. The gateway provide low cost, easy and flexible IP telephony solution to enterprise, SMEs and business office etc.

Key Features

- 4 or 8 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)

Hardware Interfaces

- Mobile: 4 or 8 Channels
- SIM Card slots: 4 or 8
- 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

LTE Frequency Bands

- UC2000-VE-4/8T 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

VoIP & Media

- Protocol: SIP v2.0, RFC3261
- SIP UDP/TCP/TLS
- RTP/SRTP
- Codecs:

  G.729AB, PCMU, PCMA, G.723.1
- 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

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
- Remote SIM

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
- OpenVPN

Physical Features

- Power Supply:
  100-240V, 50-60Hz @DC12V 2A
- Power Consumption: <25w
- Temperature(Operation): 0 ℃-40 ℃ (Storage): -20 ℃-80 ℃
- Operation Humidity: 10%-90% Dimension(W/D/H): 250*156*32.5mm
- Unit Weight: 1.07kg

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
- IVR Customization
- SIP/RTP/PCM Capture
- SIMCloud Management
- Centralized Management(DMS)
- Network Management System

Frequency Bands(2G/3G)

- UC2000-VE-4/8G:
  GSM Gateway:
  850/900/1800/1900MHz
- UC2000-VE-4/8W：
  WCDMA Gateway with two options
  A: WCDMA 850/1900MHz and GSM 850/900/1800/1900MHz
  B: WCDMA 900/2100MHz and GSM 900/1800MHz