DINSTAR

UC2000-VF-16T-V131 GSM&3G&LTE VoIP Gateway

Overview

Dinstar UC2000-VF-16T-V131 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-VF 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.

UC2000-VF

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.

Key Features

- 16 Mobile Channels with 64 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

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

Frequency Bands

- **EC25-AUX module used in Latin America can support below bands:**
- LTE-FDD:B1/B2/B3/B4/B5/B7/B8/B28
- LTE-TDD:B40
- WCDMA:B1/B2/B4/B5/B8
- GSM: B2/B3/B5/B8

- **EC25-AFX module used in North America AT&T、T-moblie、Verizon can support below bands:**
- LTE-FDD:B2/B4/B5/B12/B13/B14/B66/B71
- WCDMA:B2/B4/B5

* UC2000-VF 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: 16 Channels

Antennas Connectors: SMA

Ethernet Interfaces:

   2*10/100 Base-T, RJ45

LED Indicators:

   Power, RUN, Signal Strength Indicators

Console:

   1* RS232 115200bps

Environmental

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

Power Consumption: 38w

Temperature

   Operation: 0 ℃ ～ 45 ℃

   Storage: -20 ℃ ~80 ℃

Operation Humidity:

   10%-90% No Condensation

Dimension(W/D/H): 440×270×44mm

Weight: 4.7 kg

Unit Weight: 3.8 kg