



UC2000-VF LTE VoIP Gateway

Dinstar UC2000-VF series LTE VoIP Gateway is a multi-functional gateway which helps to effectively implement calls between 4G/3G/2G mobile network and VoIP network. It capable of make incoming/outgoing calls through 4G network with VoLTE as well as GSM/WCDMA network, users can easily choose network mode on demands. 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. 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.

Product Pictures



UC2000-VF
(Standalone Antennas)



UC2000-VF-M
(Built in 4-1 Antenna Power Divider)

Key Features

- Supports up to 16 LTE Channels
- Supports to work with different mobile networks:
 - Compatible with LTE-FDD/LTE-TDD/WCDMA/GSM Networks
- Supports Make Call through VoLTE
- HTTP API for SMS Application Integration
- SMS to Email and Email to SMS
- Flexible Dial Rules and Manipulation Rules

Honesty Concentration

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

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-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
- SIP Codes Mapping
- White/Black List
- PSTN Hotline
- VoIP Hotline
- Abnormal Call Monitor
- Call Minutes Limitation for Ports/Single Call
- Balance Check
- Low Balance Alarm
- Auto Update SIM Number
- Random Call Interval
- Auto CLIP
- Signaling & RTP Encryption
- SMPP for SMS

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,
- Network Protocols:
 - TCP/UDP,TFTP, FTP, RTP/ RTCP,
 - SSH,ARP,RARP,ICMP Ping, NTP, HTTP, DNS
- Static/Dynamic ARP Request
- PPTP VPN

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

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
 - Input:100-240V,50-60Hz
- Power Consumption: 38w
- Temperature(Operation): 0 °C ~ 45 °C
(Storage): -20 °C ~80 °C
- Operation Humidity: 10%-90% No
Condensation
- Dimension(W/D/H): 440×270×44 mm
- Weight: 3.6kg
- Package Weight: 5.5kg

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The logo for Dinstar Technologies, featuring the word "DINSTAR" in a bold, blue, sans-serif font. A small red triangle is positioned above the letter "A".