# UC8000 VoIP PBX

Overview

UC8000 is a new software-based SIP/IPPBX solution, it can be deployed for government organizations, medium and large enterprises, college campus, hospitality, head-quarter and branch office connection for phone system and call center service. UC8000 provides rich features which include SIP/PSTN/IMS trunks, call recording, call transfer, call conference, e-fax, call queue, IVR and so on.
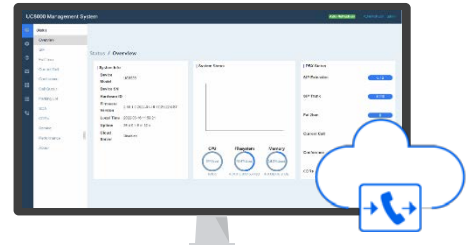
UC8000 supports up to 20,000 SIP registrations and 4,000 concurrent calls. Users can install UC8000 and connect with third party IPPBXs, UCs and SIP servers. UC8000 also can be a replacement solution of traditional legacy phone system and take the advantage of IP communication with existing resource, extend to hybrid and unified communication working environment.

UC8000 supports the installation with software-based platform or a hardware appliance, It can operate on X86, ARM, Huawei KunPeng architecture and cloud-based platform. UC8000 with software installation would allow customers to deploy the system in a very flexible way, adjust system resource dynamically without any hardware limitation. UC8000 is a cloud ready product, it can be installed with the current main cloud-based platforms to let customer be able to run the IPPBX in cloud platform. With open standard support, UC8000 would be able to be installed with hardware appliances in the market such Dell/IBM serve, it also can be installed into DINSTAR hardware appliance UC2500 with more PSTN options.

UC8000 is a very powerful carrier-grade SIP/IP solution with high-availability mechanism, supports various IPPBX call features for enterprise level and with good SIP/IMS compatibility, and by adding more VoIP gateways to be a full-featured and cost-effective IPPBX solution, and offers auto-provision and zero-touch solution for SIP phone maintenance and management.

Key Features

- Up to 20,000 SIP extension registrations and 4,000 concurrent calls
- Can operate on X86, ARM and Huawei KunPeng architecture, Docker, AWS, Google, Alibaba, Microsoft Cloud
- Support DINSTAR hardware appliance UC2500
- Call transfer, conference calls, intercom/paging, hot-desk and more
- Flexible call routing based on time profile and number prefix
- Multi-level IVR, customizable IVR, voicemail/call recording
- Easy and user-friendly GUI

IP PBX Features

- 3-way Calling, Conference call
- Video call
- Voicemail, Voicemail to Email
- Voicemail Forwarding
- Call Control
- Call with Password Protection
- Call Priority
- Call Group Control
- Instant meeting
- Scheduling meeting(Audio-only)
- Blacklist/Whitelist
- CDRs/Call Signaling Recording
- One Touch Recording
- Auto-recording
- Playback recording on web
- One SIP account with multi device registrations
- One device Multiple Numbers
- Auto Provisioning
- Auto-attendant Function
- Multi-level IVRs
- Feature codes
- Designated Pickup
- Caller ID display
- Manager/Secretary Function
- Caller/Called Number Manipulation
- Routing Based on Time Period
- Routing Based on Caller/Called Prefixes
- Attendant Console
- Mobile Extension
- Auto-Configuration
- IP Blacklist
- Extension User Management Interface
- Multi-language System Prompt
- Random Password for Extension
- Zero configuration of the phone
- Paging/Intercom

Call Features

- Call Forward
  (Always/No Answer/Busy)
- Call Forwarding for particular user
- Blind/Attended Transfer
- Redial/Call Return
- Speed dial
- Call transfer, Call parking, Call waiting
- Do-not-disturb (DND)
- DISA
- Music on Hold
- Emergency Call
- Alarm Call
- Broadcast/Broadcast group
- Intercom/ Multicast
- Call pickup/pickup group
- Call Routing Group, Ring Group
- Call Queue
- Coloring Ring Back Tone(CRBT)
- Custom Prompt, Distinctive Ringtone

Deployment platforms

- Hardware Architecture: X86/ARM
- Virtual Machine:
  VMware, Fusionsphere,
  FusionComputer, KVM
- Cloud Deployment:
  Alibaba Cloud, Google Cloud,
  Telecom Cloud, Amazon Cloud, etc.

Network

- VLAN, QoS, NAT, Fail2ban
- HA hot-standby
- IPV4/IPV6

Maintenance

- NTP
- API
- Syslog
- Firewall
- Schedule Task
- Event Report
- Network Capture
- Web Multi-User
- Internet Quality Test
- Network Space Storage
- Web GUI Configuration
- Command Line Configuration
- Configuration Restore/Backup
- Multiple Languages Support
- HTTP Firmware Upgrade
- CDR Report and Export
- Ping/Nslookup/Traceroute
- Remote management via cloud services

Media Capabilities

- VoIP Protocols: SIP over UDP/TCP, RFC3261, SDP, RTP/RTCP, SSL
- Audio Codecs: G.711a/u, G.723, G.729, G.722, G.726, Opus
- Video Codecs: VP8, H.261, H.263, H.264 Voice Activity Detection(VAD)
- Comfort Noise Generator(CNG)
- Adaptive Dynamic Buffer
- Adjustable Gain Control
- FAX: T.38 and Pass-through
- NAT: STUN/DDNS
- DTMF: RFC2833/Signal/Inband

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.