

# IP Communication Solution for Hospitality



**Dinstar Co., Ltd.** 

**Empowered by AI** 

Create a New Engine for the Experience Economy

Speaker: James zhu(jameszhu@dinstar.net)

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# 01 About Us

Who is Dinstar, and why choose Dinstar

# **DINSTAR** | IP Communication Solutions

Complete IP Unified Communication products line, including VoIP Gateways, SBCs, IP PBXs, IP Phones, and SIP Intercoms.

**No.1** 

Market Share of VoIP Gateways & SBCs in China

20+

Years Experience

100+

**R&D** Experts

10,000,000+

Lines

100+

Countries

1,000+

**Channel Partners** 

120,000+

Customers

200+

Intellectual Properties

# **Awards & Certification**

Certified by CE, FCC, RoHS, ISO, etc. Excellence in Product Quality



# **Technical Service**

#### **Professional Team**

Experts with over 10 years of experience

#### **Premium Service**

Customized to your timeline

#### **Quick Response**



Within 30 mins Common Problems



Within 120 mins Complex Problems

#### **Omni-channel**



**Email** support@dinstar.com



Tel

+86 755 6191 9966

#### Warranty



1 YEAR

2 YEARS



3 YEARS









# Challenges of Traditional Phone System

01 Analog System

The existing systems are utilizing analog PBX, which is outdated technology and not IP-based.

02

Inefficient Management

Each store operates with its own voice system.

This makes centralized management by HQs challenging and reduces overall efficiency.

03

Poor Expandability

The traditional system only supports basic communication.

It's difficult to expand Al intelligent voice services.

04

High Costs of O&M

Difficult to manage multiple chain stores.

Besides, the inconsistent and complex setup lead to high labor costs.

## Market research results

Hotel Tech Report recently surveyed 400 hotel guests for our annual State of Hotel Guest Technology Report 2025. Our research uncovered some extremely interesting data around guest perceptions of AI in hotels such as:



70% of guests find chatbots helpful for simple inquiries but prefer human interaction for more complex requests. The #1 reason guests prefer a chatbot at a hotel is when asking for the Wi-Fi password, followed by #2 scheduling wake-up calls and #3 checking hotel facility operating hours.



58% of guests feel that Al improves their hotel booking and stay experiences.



65% of travelers want the tech in their hotel to be more advanced than the tech in their homes.

# Current State of Analog Voice Systems

#### Architecture Outdated

The telephone systems in domestic budget hotels almost all use traditional analog program-controlled exchanges, which are technologically outdated.

#### Management **Difficulties**

The traditional telephone systems used in the hotel, the management group is unable to manage and monitor the operation of its various brand hotels, resulting in low operational management efficiency.

#### Analog Voice Architecture Outdated in the Hotel Industry

Application deployment slow, Maintenance workload heavy

# **Heavy** operation in Maintenance

The chain hotels have numerous locations with independent voice systems, inconsistent configurations, complex equipment installation and maintenance, and persistently high labor costs.

#### Expansion **Difficulties**

The analog voice architecture only supports basic communication, has a low level of informatization, is difficult to interface with third-party applications, and limits the expansion of intelligent voice services.

# Overall Status of Architecture of Digital Voice System

Dinstar aims to provide digital voice infrastructure services for hotels, consistently lowering costs and improving efficiency in their digital transformation..

**Cost reduction:** Do not focus solely on reducing explicit or superficial costs, aim to reduce the over all system construction costs and the total lifecycle usage costs.

**Enhancement:** Our approach to empowerment extends beyond the voice system itself. We aim to collaborate with voice-related ecosystem partners, as well as customers, managers, and investors, to drive the digitalization of hotel services and management.

- Guest voice analysis system
- WeChat Mini Program with Phone
- Smart TV
- Monitor system

- · Network system
- · Large speech model
- Public Cloud
- Delivery robot
- · laundry machine



# Before and After Hotel Digital Renovation



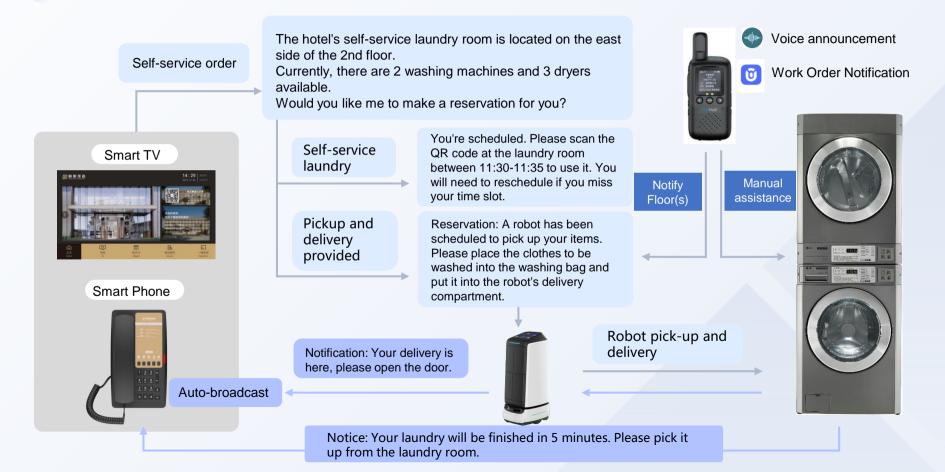
**Before Renovation** 

After Renovation

# Scenario 1- Digital Voice System - Delivery Robot Integrated Application



### Scenario 2- Digital Voice System - Self-Service Laundry Integration Application



# Improve Service Quality

Implement various voice technology applications to improve hotel management efficiency, strengthen standard operating procedures, and enhance service quality.

#### **Complaint Warning**

90% of negative reviews followed phone feedback. Analyzing guest call helps detect issues early, reducing complaints.

#### Call Recording

Record calls for key authorization, bookings, cancellations, no-show confirmations, etc.

#### Service Monitoring

Analyze voice records between staff and guests to identify service issues and implement targeted improvements.

#### Fraud Prevention

Smartly identify suspicious calls, provide timely alerts, and protect personal assets and hotel reputation.

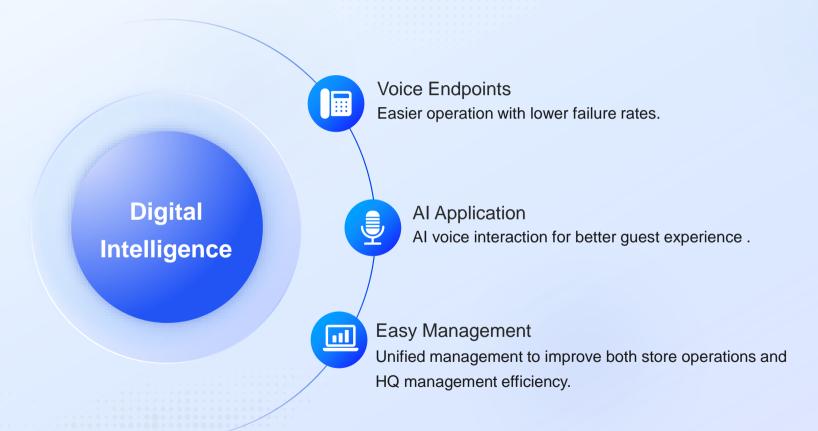
#### **Room Access Inquiry**

"Accidental room entry" is a top complaint. Using AI voice to ask guests for consent helps reduce complaints.

#### **Training Service**

Provide training to service staffs to service staff to enhance professionalism in handling Al-driven calls.

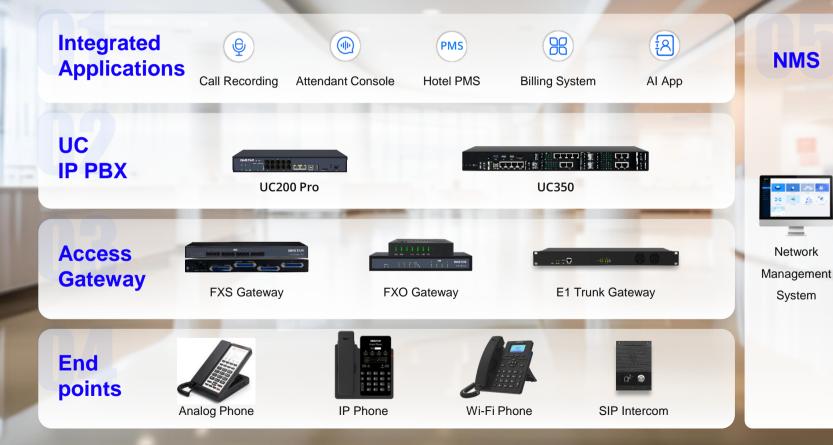
# New Trends of Hospitality





# 03 Overall Solutions For the hotel

# IP Communication System for Hospitality



# Features of Hotel Voice System

Features	Details	Benefits
Call	One-click call to the front desk, room extension, voice message, etc.	Enhances user experience with easy-to-use features.
IVR	Automatically directs calls to the based on the different needs (reservation, complaint, inquiry).	Reduce waiting time and improve service efficiency
Recording	Enables service process traceability through call recordings.	Enables hotels to identify service issues and implement targeted improvements.
Billing	Customizable rates, automatic billing for room extension calls and report generation.	Refine cost control for better management.
Extension Permission	Set permissions for local, domestic long-distance, and international calls from guest room extensions.	Enhance fine-tuning of hotel telephone service costs.
Wake-up Service	Scheduled wake-up service, supports setting multiple rooms to wake up simultaneously.	Improve customer satisfaction
Attendant Console	One-click Answering, Call Queuing, Call Transfer, Call Hold, and more.	Streamline telephone operations for quicker response and better service.
Emergency Broadcast	Front desk can initiate a broadcast or group call. Guest room phones ring and play the message once answered.	Ensure emergency notifications, facilitate safe evacuation.
PMS	Integrated PMS on IP PBX, or connect to the existing management of hotels via PMSI	Improve management efficiency and reduce labor costs.
Call Priority and Routing	Set rules by area (guest room, catering, conference) to route calls to the appropriate customer service staff.	Ensure VIP service quality
3 <sup>rd</sup> -party Integration	Open API to AI box, security system, delivery robot and CEM etc.	Future proof

# **Attendant Console**

DINSTAR UC Series IP PBX is designed for budget hotels and B&Bs, integrating attendant console and PMS modules for a simple, reliable, and cost-effective all-in-one solution. The easy-to-use attendant console streamlines call management, enhancing front desk efficiency.

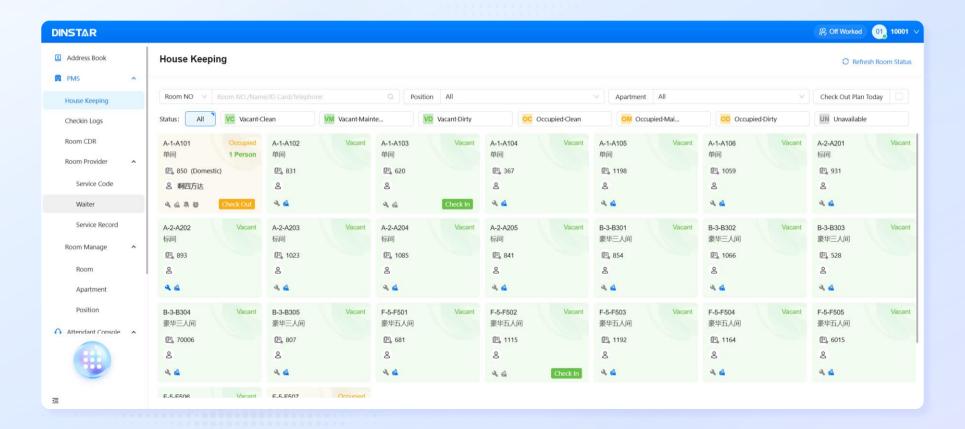
#### **Key Features**

- Call Pop-up
- · Online Dialing
- · Call Transfer
- Call Hold

- Queue Management
- Call Parking/Pickup
- Do Not Disturb (DND
- Attendant Sign-in/Sign-out



# **PMS**

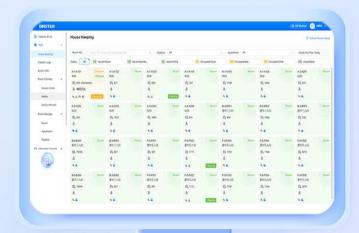


# **PMS**

DINSTAR UC Series IP PBX integrates a PMS module, supporting room management and guest service registration. It provides an intuitive view of room status and guest check-in records, with one-click answering, hang-up, Do Not Disturb (DND), and wake-up service settings.

#### **Key Features**

- Guest Room Management: Create room location info, room types, and bind extensions to room numbers.
- Guest Room Service: Update room status via room extension (Cleaning Needed/Clean/Maintenance/Normal).
- Room Status Management: View real-time room status on a visual interface.
- Check-in Registration: Register guest information, customer details, and extension permissions.
- · Check-in History: Automatically record guest stay history.
- Call Records: Front desk can check guest room call logs via the PMS interface.
- Wake-up Service: Set alarms for single or multiple rooms via the PMS management page.



# Analog System Move to VoIP

#### Background

- Designed for budget hotels and B&Bs with up to 200 rooms.
- · Compatible with existing analog phones and lines.
- Cost-effective deployment by reusing existing resources.

#### Benefits

- · Cost Savings: Retains existing phones and wiring
- High Integration: UC200 Pro IP PBX integrates attendant console and PMS, offering a one-stop solution with easy deployment and lower investment.
- Failover Support: Built-in FXS & FXO ports ensure front desk phones can communicate externally during power or network outages.
- Emergency Broadcast: In case of fire or emergencies, front desk staff can broadcast to alert all guest rooms.

#### Products

- UC200 Pro IP PBX
- DAG2000/DAG2500 Series FXS Gateway

# Topology **Attendant Console PMS** UC 200 Pro **FXS Gateway** IP PBX

### IP PBX+IP Phone/Wi-Fi Phone

#### Background

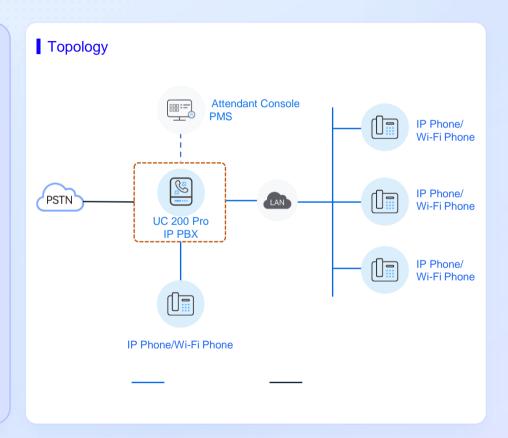
- Designed for budget hotels and B&Bs with up to 200 rooms.
- Ideal for hotels without existing phone or network cabling.
- Quick deployment, easy maintenance & management.

#### Benefits

- Easy Deployment: Full IP-based, plug-and-play setup with network cables. Wi-Fi phones suit hotels without wired networks.
- HD Voice: IP phones support HD audio, enhancing guest experience.
- Easy Maintenance & Management: IP PBX enabling autoconfiguration and firmware upgrades for IP Phones.
- Flexible Expansion: Scales extensions as needed to match hotel growth.

#### Products

- UC200 Pro IP PBX (with PMS & Attendant Console)
- H60P Hotel Phone, C60U-W Wi-Fi Phone



# IP PBX+AI Application

#### Background

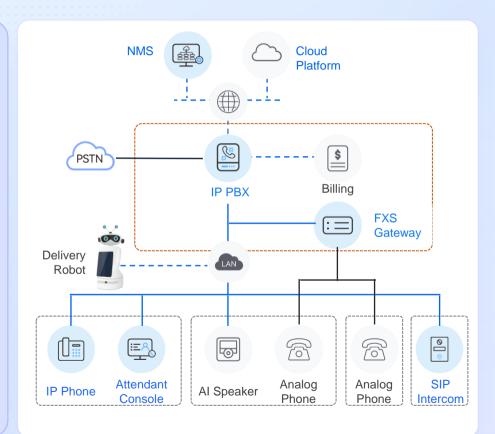
- · Chain Hotels upgrade to an IP-based voice system.
- · Integrate AI applications to build smart hotel.
- · Quick deployment, easy maintenance & management.

#### Benefits

- IP PBX & Delivery Robot: Robots connect to the voice system, reducing labor costs and enhancing the guest experience.
- IP PBX & Al Box: Guests use Al speakers to call the front desk and control lights, curtains, and more.
- Integrated PMS & Attendant Console: Built-in hotel features eliminate third-party costs.
- Easy Maintenance: NMS enables remote monitoring, debugging, and management.

#### Products

- UC200 Pro/UC350 IP PBX (with PMS & Attendant Console)
- · H60P Hotel Phone, C60U-W Wi-Fi Phone
- DAG2000/DAG2500 Series FXS Gateway



# IP PBX Integrated with Security System

#### Background

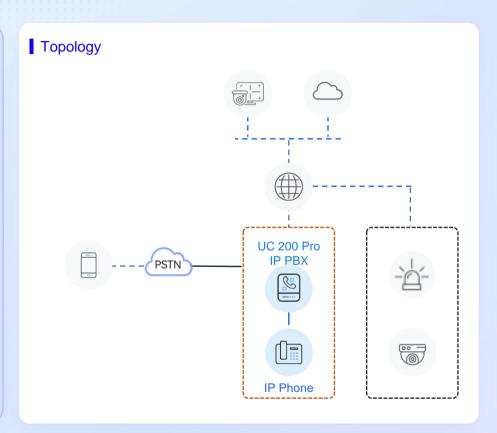
- · Hotels upgrade to an IP-based voice system.
- Security integration enables emergency response via phone.
- Open API Support: extensive integration capabilities.

#### Benefits

- Phone System & Security System Integration: When an alarm is detected, the security system notifies the cloud platform via API, which then auto-calls the front desk.
- Emergency Broadcast: In case of fire or emergencies, front desk staff can broadcast to alert all guest rooms.

#### Products

- UC200 Pro/UC350 IP PBX (with PMS & Attendant Console)
- H60P Hotel Phone, C60U-W Wi-Fi Phone
- DAG2000/DAG2500 Series FXS Gateway



# Advantages with Dinstar's Solution









#### **Integrated Architecture**

Integration of hotel voice with network, monitoring

Centralized management and IT

O&M

#### Multiple Trunk Support

Support E1 Trunk, IMS Trunk and FXO Trunk

#### **High Compatibility**

Compatible with multiple products and services such as hotel management systems, Al voice butlers, robots, etc.

#### Reproducibility

standardized implementation solutions that can be quickly applied to a chain of stores



#### **Local Failover**

Cloud + Local Networking

Provide local failover solutions



#### Stable and reliable

Provide carrier-grade system and high reliability gateway



#### **Cost-Saving**

Centralized management of store devices

Easy to Deploy and Maintain



#### **Future-oriented**

Consistent with the future trend of hotels

## Solution Benefits

#### Lower operational expenses

- · Big data analyze
- self-service check-in, check-out, food ordering via Al Robot





#### Elevate brand reputation

Intelligent, differentiated, and multi-scene innovative applications, bring better experience to users, enhances reputation of hotels.



#### Improve customer experience

Al voice interaction, Al phones, intelligent food delivery robots, and intelligent customer service systems, hotels can provide guests with more convenient services.





# Improve management efficiency

intelligent voice butler, remote control, breakdown warning, automatic inspection, etc., which reduces maintenance costs, and lowers operating costs.

# Success Stories in Hospitality



































# Al Voice Integration

Voice & Al Integration: Cloud-to-cloud deployment simplifies Al voice setup and maintenance.



#### Fewer Devices, More Stability

Eliminates multiple conversions between digital, analog, and Al.

#### **Faster Deployment**

Bulk setup in one day, no on-site installation needed.

#### **Enhanced Management**

Al voice assistant, smart reception, Al checkout reminders, and complaint alerts.

# IP PBX Integrated with Delivery Robot

Delivery robot connects to the digital voice system for automated delivery notifications.



#### Save Manpower

Robots handle repetitive tasks, reducing labor costs

#### **Enhance Tech Appeal**

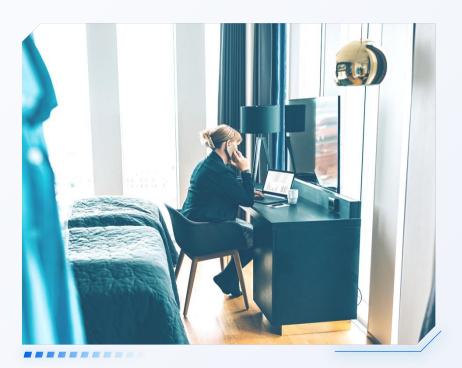
Robots add a high-tech touch, boosting OTA ratings and guest attraction.

#### **Increase Satisfaction**

Robots provide 24/7 efficient service, improving the guest experience.

# Integration with AI CEM

Voice & AI CEM Integration: Uploads front desk recordings to the hotel's intranet via API.



#### **Local Dual-Track Recording**

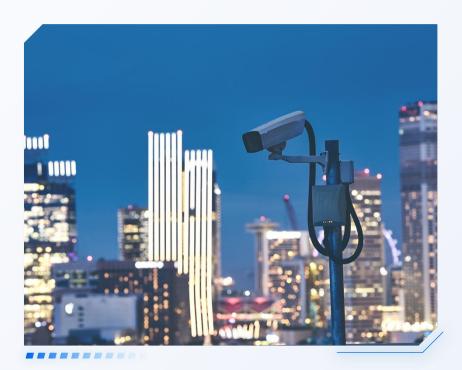
No extra hardware, auto-recording syncs to CEM without changing workflows.

#### No Extra Equipment

No additional recording devices or wiring changes, ensuring stability.

# Integration with Security System

Phone system Integrated with security system: Pushes store video to front desk video phones.



#### Fast Response

Live monitoring video reaches front desk phones for quicker action.

#### Save Manpower

No need for dedicated monitoring staff; alerts go directly to front desk phones.

#### **Enhance Security**

Detects risks and incidents in real time for prompt action.

# Integration with AI Speaker

Smart Speaker Integration: Supports calls, Al interaction, and front desk connectivity.



#### Front Desk Phone Merge

Combines front desk phone and AI speaker for direct calls.

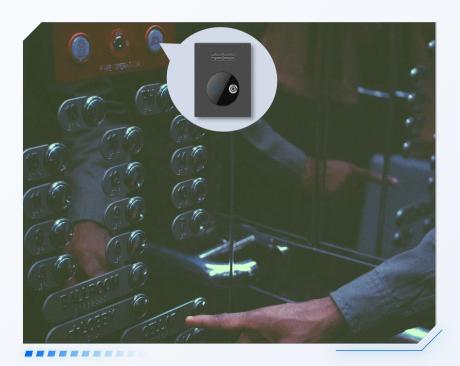
#### **Extension Transfer**

Supports external calls to AI speaker and transfers between AI speaker and other extensions.

#### Al Application

Al speaker can call the front desk, record calls, and connect with HDOS and delivery robots.

# SIP Intercom in Elevator



#### **Emergency SIP Intercom**

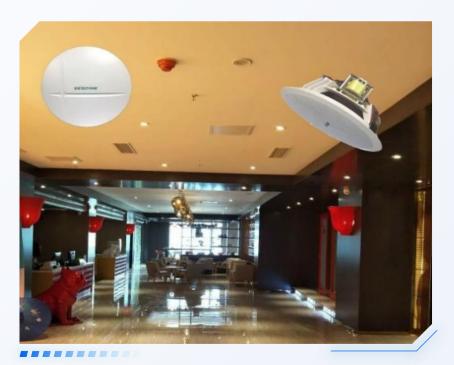
Integrated with the voice system for emergency calls. Guests can press one button to contact maintenance during elevator malfunctions.

#### Faster Response

Ensures quick communication and timely assistance.

### **Emergency Broadcast**

The voice system supports emergency broadcasts. The front desk can initiate a paging group with one click for quick and efficient announcements.



#### **Emergency Announcement**

In case of fire, earthquake, or other emergencies, the front desk can trigger an emergency notification with one click for orderly evacuation.

#### **Broadcast via Paging Group**

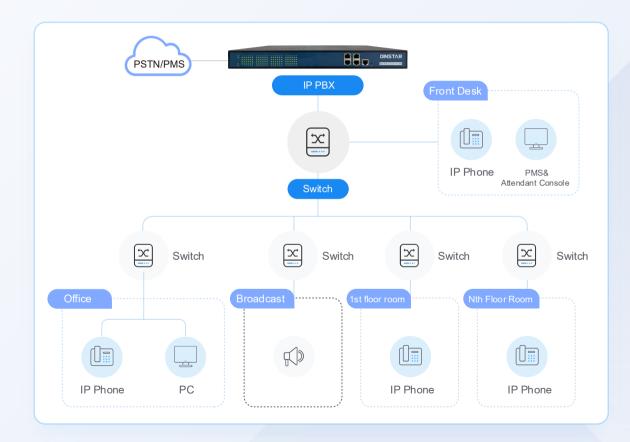
The front desk can dial a specific number to call all guest room phones based on the emergency situation.



# 05 Products

### Total solution with Dinstar hardware line

- ✓ IPPBX
- ✓ Gateways
- ✓ SIP phones
- ✓ PMS modules support



#### The JDS PMS middleware service will be available soon!

Index	Supplier Name	Key Features and Description
1	Oracle Hospitality	Integrated communication technologies, comprehensive hotel operations management, supports Opera PMS integration
2	Sabre Hospitality Solutions Sabre	Comprehensive and systematic solutions covering reservations, revenue management, and customer relationship management.
3	Amadeus Hospitality	Cloud-based infrastructure supporting multi-channel distribution and customer experience management
4	Infor Infor Company	Industry-specific platform integrating finance and supply chain management, with a focus on data analytics and real-time monitoring.
5	Protel Hotel software Protel	Leading European Brand, supporting multi-property management and central reservation system.
6	ASSD	Solutions for automated inventory management, customer engagement, and queue management
7	Guestline Ltd, Guestline Ltd.	Integrated POS system and channel management module for small and medium-sized hotels.
8	NEC Corporation	Leveraging biometrics and AI technologies to improve the efficiency of intelligent customer service and operational management.
9	Delta Software	Chain hotel management, focusing on centralized data synchronization and operational automation

### UC Series IP PBX

Models				\$ \( \( \dag{\phi} \)
	UC200 Pro	UC350	UC350 Pro	UC8000
SIP Extensions	60 to 500	500 to 1,000	2,000 to 5,000	20,000 SIP Extensions
Concurrent Calls	15 to 50	60 to 120	200 to 500	4,000 Concurrent Calls
Max FXS/FXO Ports	8	32	32	Easy to Scale
E1/T1 Ports	NA	4	16	On-premise or Cloud
Power Supply	Single	Redundant	Redundant	High Availability
HA	Yes	Yes	Yes	Easy Deployment

### UC200 Pro

**Desk-Top IP PBX** 



60 to 500 SIP Extensions



15 to 50 Concurrent Calls



1+1 Hot-standby



Default 2 FXS, 2 FXO



Expansion module, 3 boards slots, 2S, 2O, or 1S1O



2 GE Ports

### UC200 PRO



### UC350 Reliable Enterprise IPPBX



500 to 1,000 SIP Extensions



60 to 120 Concurrent Calls



Up to 32 FXS/FX



Up to 4 E1/T1



**Dual Gigabit Ethernet Port** 

Redundant Power Supplies



Voice Recording



**VPN** 

UC350



### UC350 Pro Reliable Enterprise IPPBX



2,000 to 5,000 SIP Extensions



200 to 500 Concurrent Calls



Up to 32 FXS/FX



Up to 16 E1/T1



Voice Recording



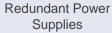
**VPN** 

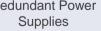
### UC350 Pro











#### Software IP PBX for Your Own Hardware or Virtual Server

#### Large Capacity

Max 20,000 SIP extensions, 4,000 concurrent calls

#### High Availability

Hot standby, no-downtime

#### High Reliability

Load balancing and redundant routings for disaster recovery

#### **Enhanced Security**

TLS, SRTP, ZRTP encryption

#### Flexible to Deploy

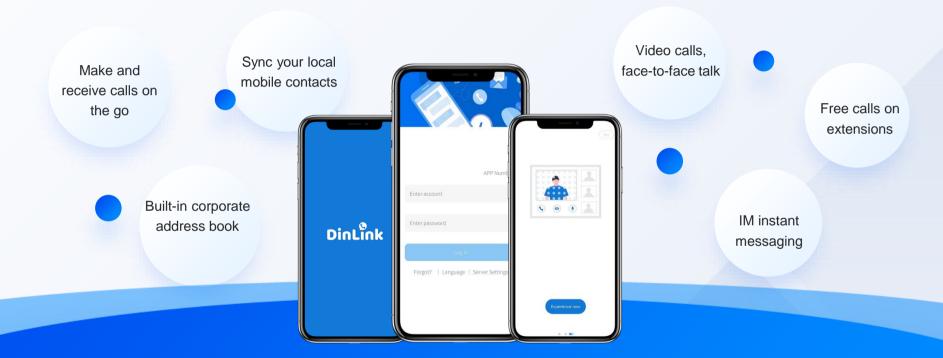
On-premise, Cloud, X86, ARM, Virtual Machine



### UC 8000



### Softphone DinLink



**Supports Android & iOS devices** 

### Analog VoIP Gateway

Models	DISTAR  DISTAR  DISTAR								
	DAG1000		DAG2000	DA	G2500		DAG3000		
FXS Ports	1/2/4/8		16/24/32	48	3/72/96		312		
FXO Ports	2/4/8		16		N/A		312		
Hybrid Ports	1S10/2S20/4S4C	)	8S8O		N/A		N/A		
Size	Desktop		1U		1U		3U		
SIP	¢¢.	(IPv6)	<b>(\$</b> )				6		
SIP	IMS	IPv6	Auto	TR069	3-way	T.38 Fax	TLS / SRTP		

Conference

provisioning

### Session Border Controller



### Digital VoIP Gateway

Models							
	MTG200/MTG200L/MTG10	000	MTG2000/MTG2000B	0B MTG3000		MTG5000	
E1/T1 Ports	1/2		4/8/12/16/20	16 to 63		64	
MCU	Single		Single/Redundant		dundant	Single/Redundant	
Concurrent Calls	60		600/480	1890		1920	
Size	Desktop/1U		1U	2U		3U	
PRI	<b>SS7</b>	R2	7	Q	SIP	8	
PRI	SS7	R2 MFC	Echo Cancellation	Web Interface,	SIP/SIP-T	T.38 Fax	

up to 128ms

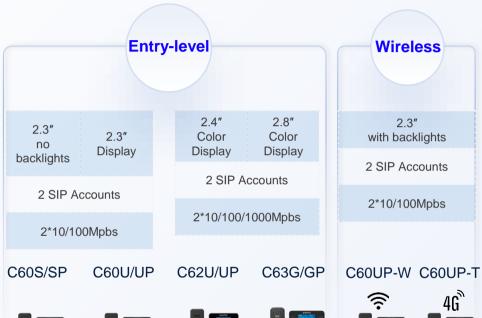
SNMP, Cloud NMS

### GSM/4G VoIP Gateway

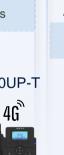
Models	<u> </u>	1000 g					
	UC2000-VE		UC2000-VF	UC2000-VG		Multi-SIM	
GSM/LTE Channels	TE Channels 4/8		16	16 32		8/16/32	
SIM Slots	1 Slots/Channel		1 Slots/Channel	1 Slots/Channel		4 Slots/Channel	
User Boards	1		2	4		4	
LCD Display	NA		NA	Υ		NA	
4G <sup>N</sup>		€ <del>D</del>			<b>a</b>	Ţ	
VoLTE	GSM	HD Audio	SMS	Remote SIM	OpenVPN	SMS API	

Management

### IP Phone



## **Wireless** 2.3" with backlights 2 SIP Accounts 2\*10/100Mpbs





**High-end** 

### Video **Phone** 8" **Touch Display** 16 SIP Accounts 2\*10/100/1000Mpbs A808A A808B



No Display

2 SIP Accounts

2\*10/100Mpbs

H<sub>60</sub>P



### SIP Intercoms

123 Models DP88 DP85U DP81U-1B **DP91-S** DP92V-S DP98 **HD** Camera NA Υ NA Optional **Card Reader** Υ Υ NA Υ NA Optional **Q**LINE **B <+>** 2 SIP Lines 2 DSS Keys HD Audio/Video **DTMF** Auto Answer PoE IP65 IK10

### **Device Management Platform NMS**

#### Remote Management

- · Remote Web & Telnet
- · Remote Configuration
- · Remote Firmware Upgrade
- · Remote Trouble-shooting
- Full signaling trace & analysis tool

#### Auto Deployment

- · Auto Provision for Devices
- Firmware Upgrade
- Auto Backup for Devices
- Configuration push of all DINSTAR products
- Zero-touch configuration

#### **Device Monitoring**

- · Device Monitoring
- · Network Monitoring
- Status Monitoring

#### Alarm Push

- Real-time Alarm
- Alarm Confirm & Analysis
- Historical Alarm
- Alarm Push via email and SMS



#### Role Management

- Multiple User Accounts Management
- Role-Based Access Control (RBAC)
- Multi-Level Account Permission Management
- Custom Function Menu Permissions

#### **Dashboard**

- · Report template & generating
- · Statistics of device status and call
- Device & system logs download & backup
- · Report template & generating

#### DINSTAR









# IP Communication Solution



sales@dinstar.com



www.dinstar.com



+86 755 6191 9966

# **Q&A Session**