UC IPPBX Product Introduce

Foreword

- This course is mainly:
  - Describe PBX and IPPBX common knowledge
  - Describe IPPBX main function
  - Introduce Dinstar UC IPPBX product and key feature
  - Explain Dinstar UC IPPBX networking and application scenario

Course Objective

Through this course you will be able to

Understand and know what IPPBX

Be familiar with Dinstar UC IPPBX main function and key feature

Know Dinstar UC IPPBX networking and application

Contents

About PBX&IPPBX

01

1.1 What is PBX

1.2 PBX History

1.3 About IPPBX

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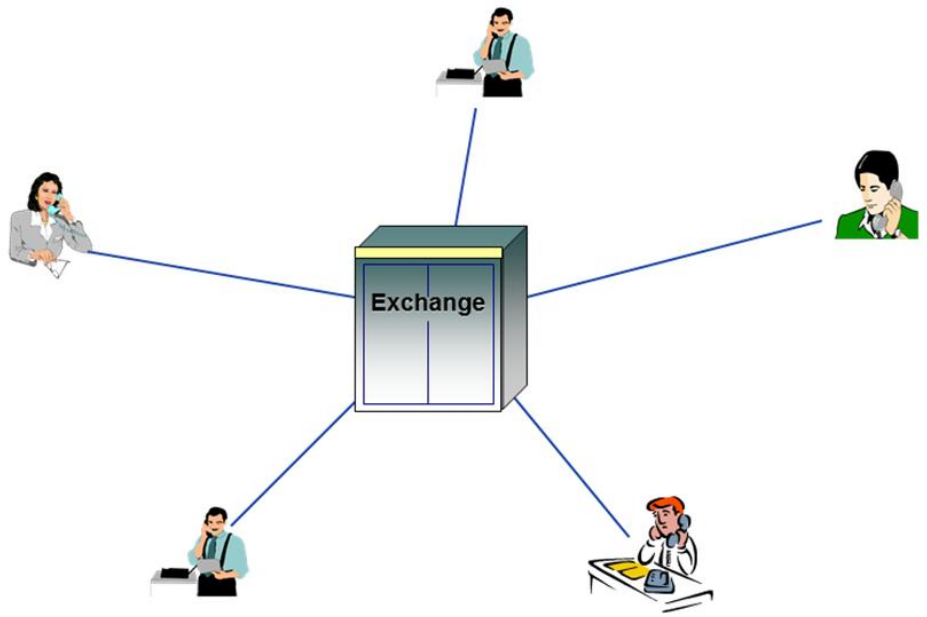
What is PBX

- A telephone exchange is a system device used to connect telephone lines and automatically transfer calls.
  - Automatic and efficient transfer of calls between telephone users
  - Forwards the call request to the correct destination according to the set routing rules.



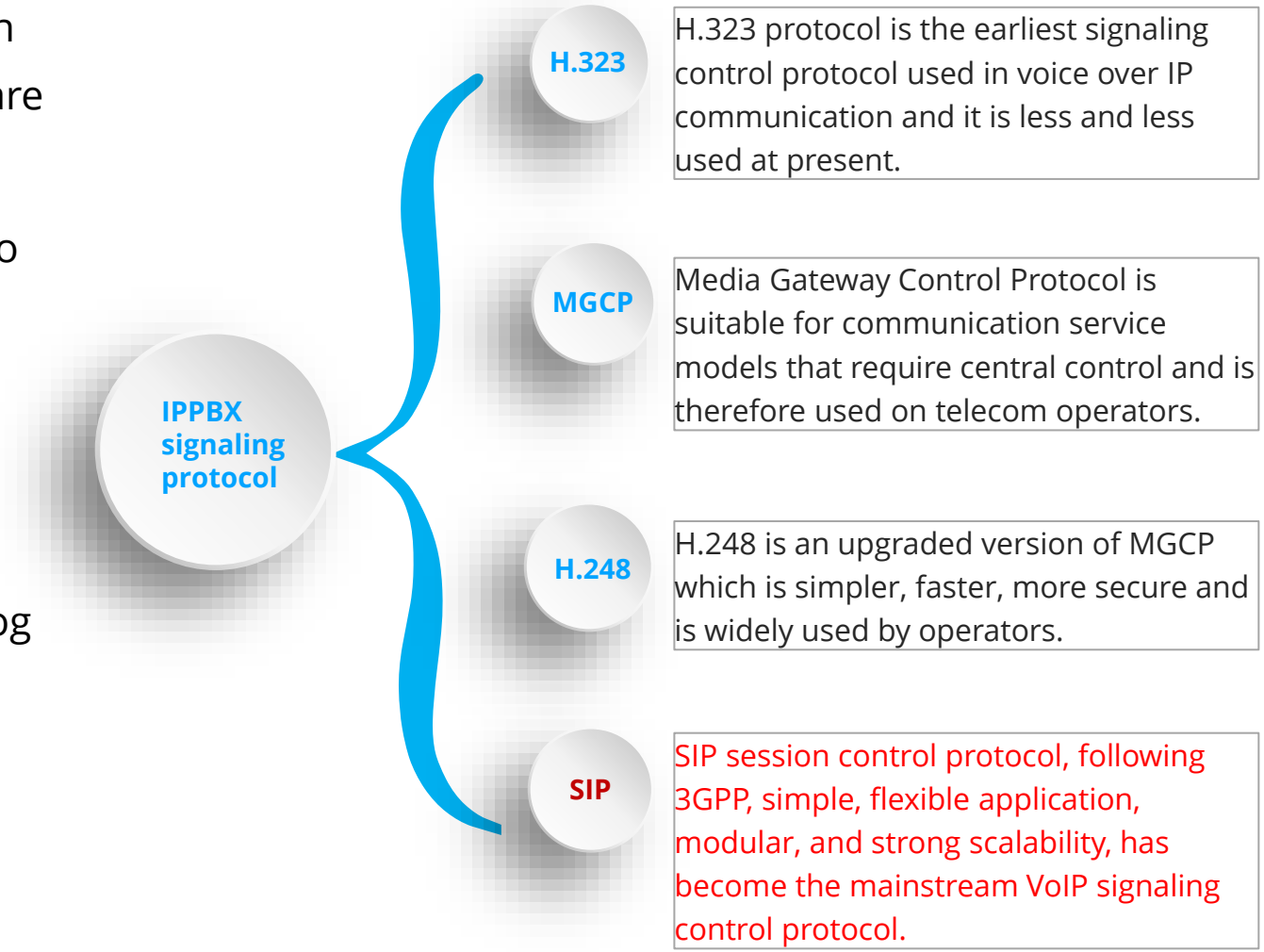
PBX History

- The development of PBX

- The oldest way is based on manual transfers.
- Mechanical and electronic devices is used
- Automatically transfer calls
- Improve efficiency
- Digital signal processing technology is used
- Provide higher call quality and more features
- Such as autodialing, call forwarding, voicemail, etc
- Computer program to control the transfer
- Provide greater flexibility and programmability
- Fully automated
- Based on IP technology
- Software is used to process telephone signals
- Transmit them over the Internet
- Greatly reduces costs and increases flexibility
- Makes it smarter (H323/MGCP/H248/SIP)

About IPPBX

- Feature
  - It is a telephone switching system based on IP protocol and all voice service functions are implemented by software on the network.
  - Support value-added services such as video calls, multi-party voice conferences and manager secretaries etc.
  - Support remote maintenance and management
  - Support operator's PSTN through an analog access gateway or a digital trunk gateway.



Advantage

DINSTAR

- PBX & IPPBX

	Old System：Tradition PBX	New System：IPPBX
Appearance	Low integration and the equipment is bulky and large	high integration
Architecture	Based on hardware switching technology, the architecture is outdated and low efficiency	Based on IP architecture, SIP protocol, IMS/NGN technology
Function	Single function and poor scalability	Feature-rich, open and compatible
Maintain	Local serial port maintenance, no visual interface, no remote maintenance tools, high O&M costs	Visual interface, convenient and efficient，remote configuration and maintenance Greatly reduce O&M costs
Deploy	Complex implementation and long deployment cycles	Full IP, fast deployment，high scalability, easy upgrade and expansion

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UC IPPBX Introduce

02

2.1 Dinstar UC IPPBX Overview

2.2 Dinstar UC IPPBX Serial Introduce

DINSTAR

Overview

- Dinstar UC IPPBX Series

Software

DRS
Record Manager
System

Attendant Desk

PMSI for Hotel

Enterprise Billing

Address Book

APP Dinlink

UC IPPBX

UC100

UC120

UC200Pro

UC350

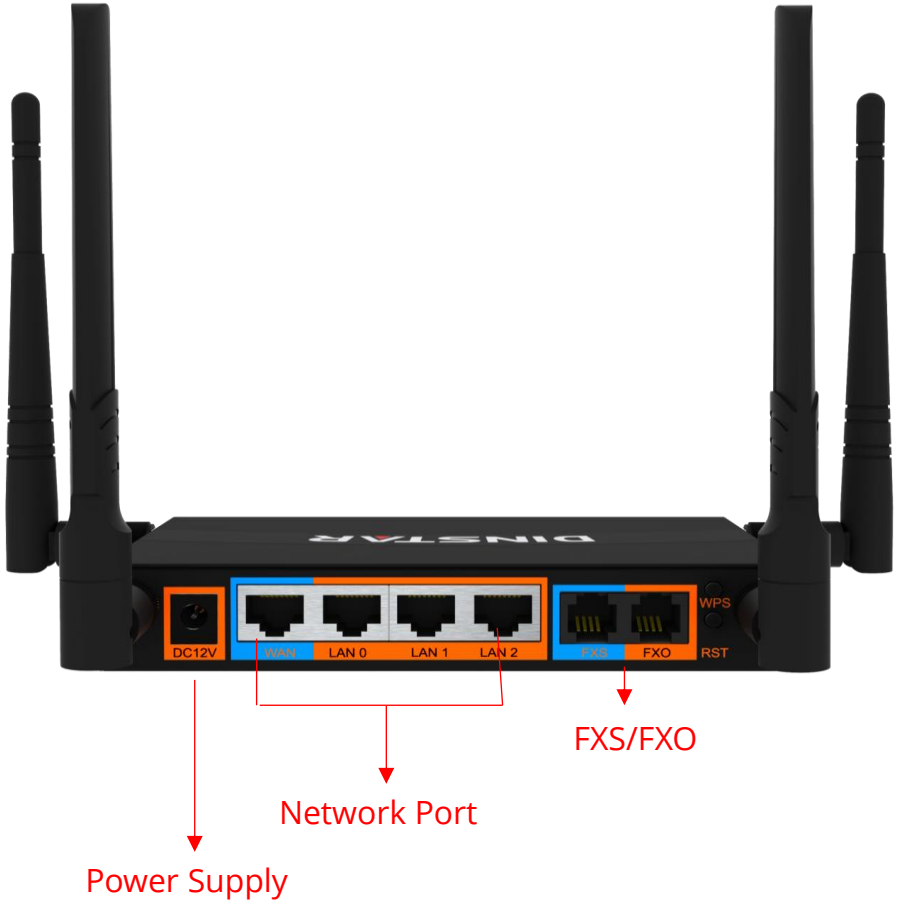
UC350Pro

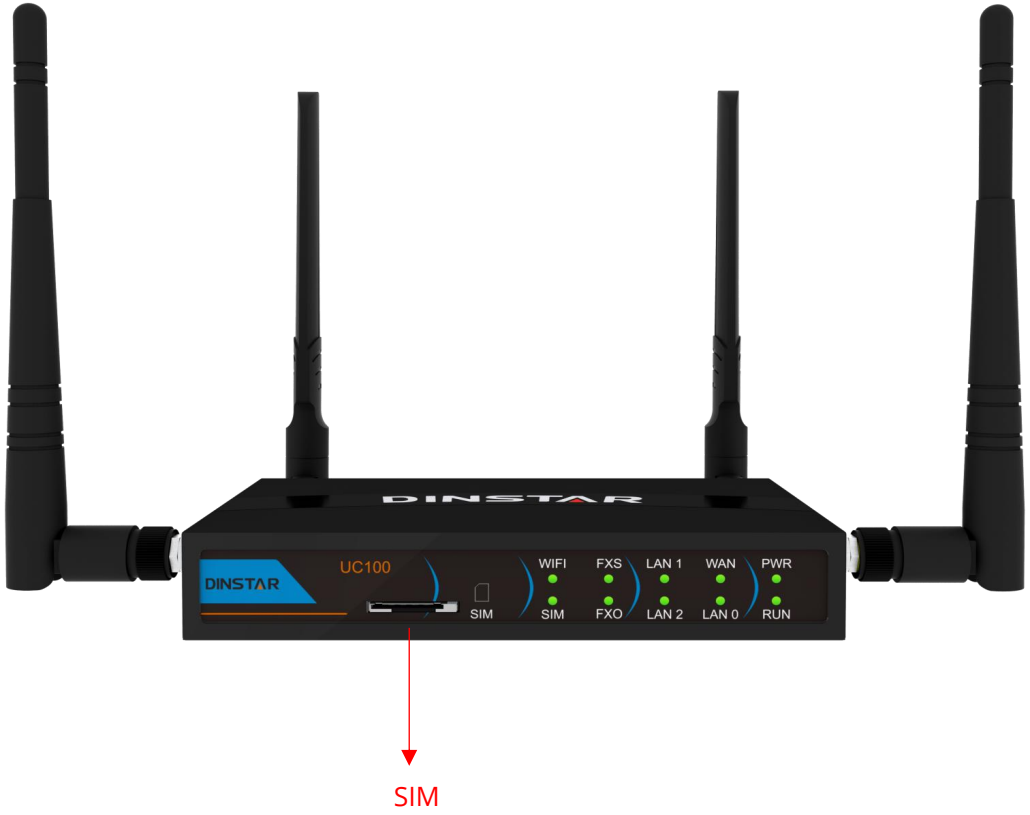
UC8000
(software)

All of Dinstar's UC IPPBX products are based on the SIP protocol for voice communication

UC100

- Appearance





UC100 (continue)

- Key feature

32 extension | 10 concurrence | 4G internet | Wi-Fi

- Desktop，SIP Protocol
- Built-in SIP Server function，support 32 SIP extension
- Support 1 FXS and 1 FXO
- Support 1 SIM card，GSM/WCDMA/LTE call and internet
- Support 1 wan and 1 lan
- Support simple router function

UC100

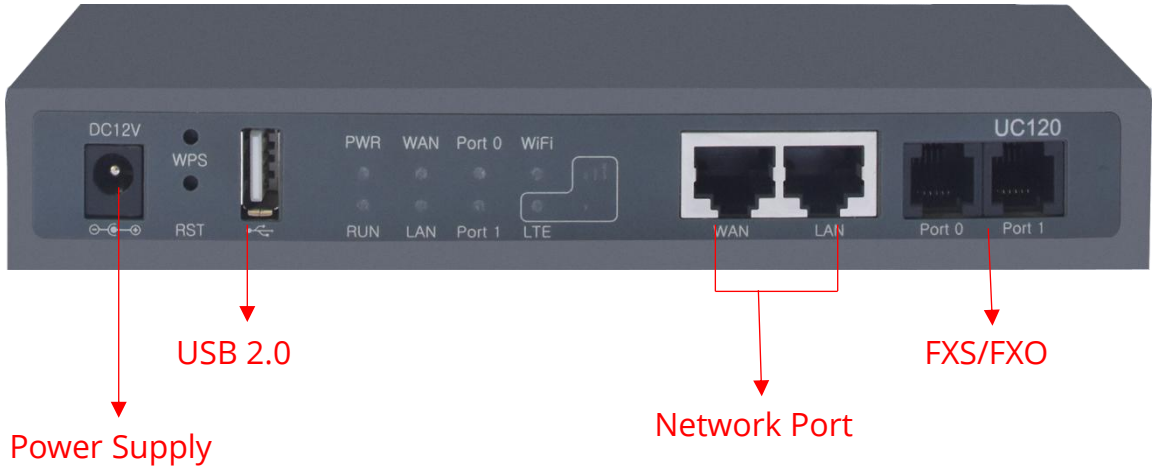
UC100 (continue)

- Description of Indicators

Indicator	Definition	Status	Description
PWR	Power Indicator	Off	There is no power supply or power supply is abnormal.
		On	The UC100 device is powered on.
RUN	Running Indicator	Slow Flashing	The device is initialized successfully and is running normally
		On	The device is being initialized.
		Off	The device is not running normally.
WiFi	WiFi Indicator	Fast Flashing	WiFi is in normal running.
		Off	WiFi is not turned on.
		On	The WiFi module is faulty.
FXS	FXS In-use Indicator	Slow Flashing	The FXS port is in idle status.
		On	The FXS port is in off-hook status.
		Off	The FXS port is faulty
FXO	FXO In-use Indicator	Slow Flashing	The FXO port is initialized successfully and is in idle status.
		On	The FXO port is currently occupied by a call.
		Off	The FXO port is faulty.
WAN/LAN	Network Connection Indicator	Off	Network does not work or network cable is not connected.
		Fast Flashing	Network is successfully connected.
SIM	LTE 4G Indicator	Slow Flashing	The LTE module or the SIM card cannot be detected. (Flash every four seconds)
		Fast Flashing	It is detected that the SIM card has been inserted and registered successfully. (Flash every two seconds)

UC120

- Appearance



UC120 (continue)

- Key feature

60 extension

30 concurrent

4G internet

IVR

Wi-Fi

record

Voice mail

telephone operator

- Desktop，SIP Protocol
- Built-in SIP Server function，support 32 SIP extension
- Support 1 FXS and 1 FXO or 2 FXS or 2 FXO
- Support 1 SIM card，GSM/WCDMA/LTE call and internet
- Support 1 wan and 1 lan
- Support simple router function
- Support 1 USB2.0 and 1 SD card

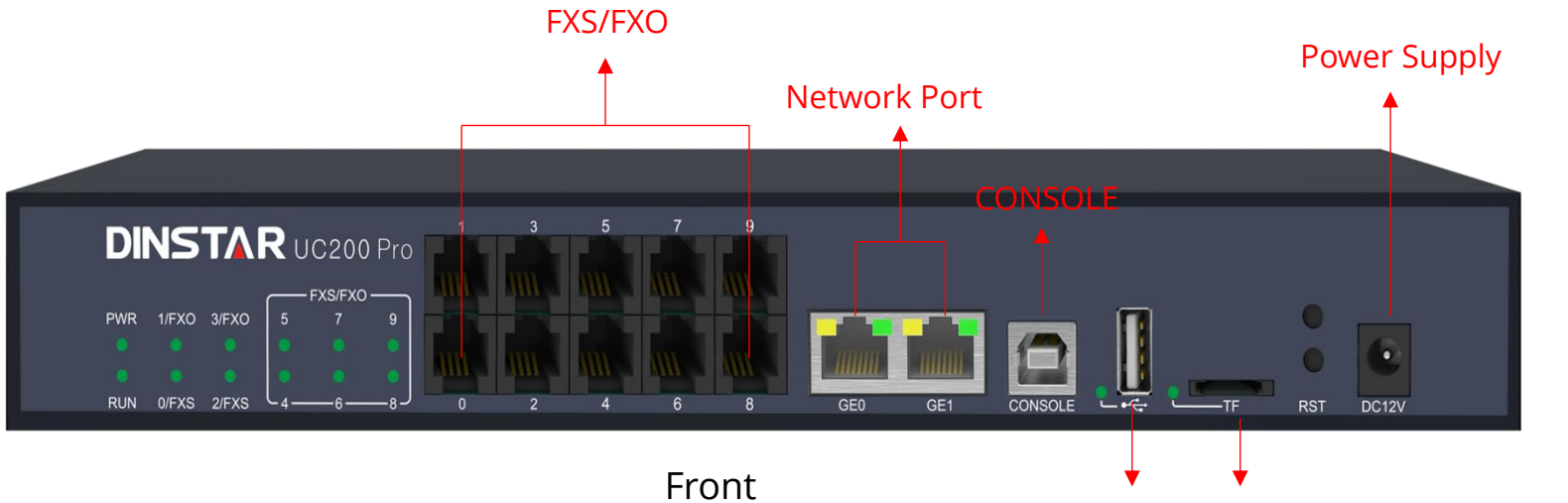
UC120 (continue)

- Description of Indicators

Indicator	Definition	Status	Description
PWR	Power Indicator	Off	There is no power supply or power supply is abnormal.
		On	The UC120 device is powered on.
RUN	Running Indicator	Slow Flashing	The device is initialized successfully and is running normally
		On	The device is being initialized.
		Off	The device is not running normally.
WiFi	WiFi Indicator	Fast Flashing	WiFi is in normal running.
		Off	WiFi is disabled or WiFi is faulty
		On	The WiFi module malfunctions.
FXS	FXS In-use Indicator	Slow Flashing	The FXS port is initialized successfully and is in idle status
		On	The FXS port is in off-hook (in-use) status.
		Off	The FXS port is faulty
FXO	FXO In-use Indicator	Fast Flashing	The FXO port is connected with PSTN line and is in idle status
		Slow Flashing	The FXO port has yet to be connected with PSTN line, but is in normal status.
		On	The FXO port is currently occupied by a call.
		Off	The FXO port is faulty.
WAN/LAN	Network Connection Indicator	Off	Network does not work or network cable is not connected to the WAN/LAN port..
		Fast Flashing	Network is successfully connected.
SIM	LTE 4G Indicator	(1) LTE indicator (2) Strong signaling indicator (3) Weak signaling indicator	

UC200 Pro

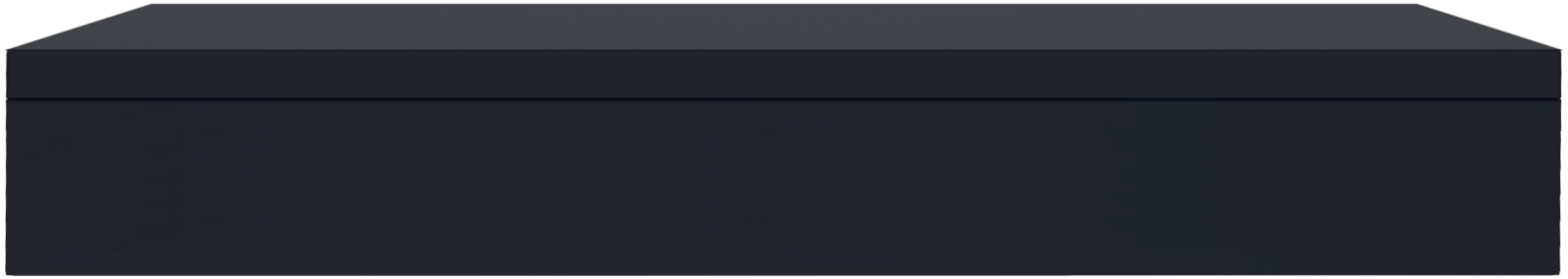
- Appearance



Front

USB 2.0

TF Card Slot



Back

UC200 Pro (continue)

- Key feature

Max 500 extension

Max 50 concurrence

TLS/SRTP

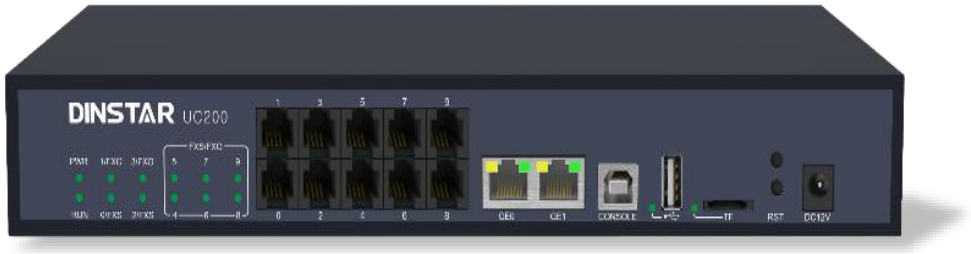
voice conferen ce

Hot Standby

Record

voice mail

IVR



- Desktop，SIP Protocol
- Fixed 2 FXS and 2个FXO
- Support 3 optional 2S/2O/1S1O module
- Support 1 USB2.0
- Support 2 Gigabit Ethernet
- Support 1 TF card for recording

UC200 Pro (continue)

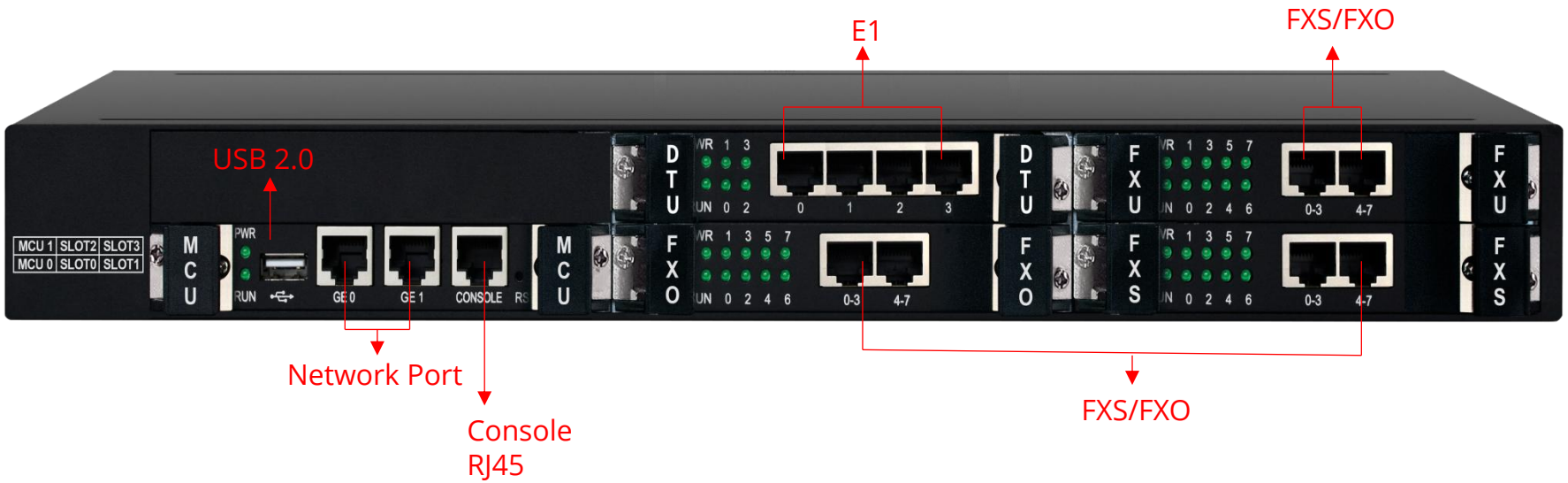
- Description of Indicators

No.	Port or Indicator	Status	Description
1	Power Indicator	Off	There is no power supply or power supply is abnormal
		On	The device is powered on
2	Running Indicator	Flashing	The device is initialized successfully and running normally
		On	The system is initializing
		Off	The device is not running normally
3	FXS/FXO Indicator	On	The FXS port is in off-hook (in-use) status
		Off	The FXS port is in on-hook status.
4	USB Indicator	On	The USB device is inserted
		Off	The USB device is not inserted
5	TF Indicator	On	The TF card is inserted
		Off	The TF card is not inserted

UC350

- Appearance

Front
1U

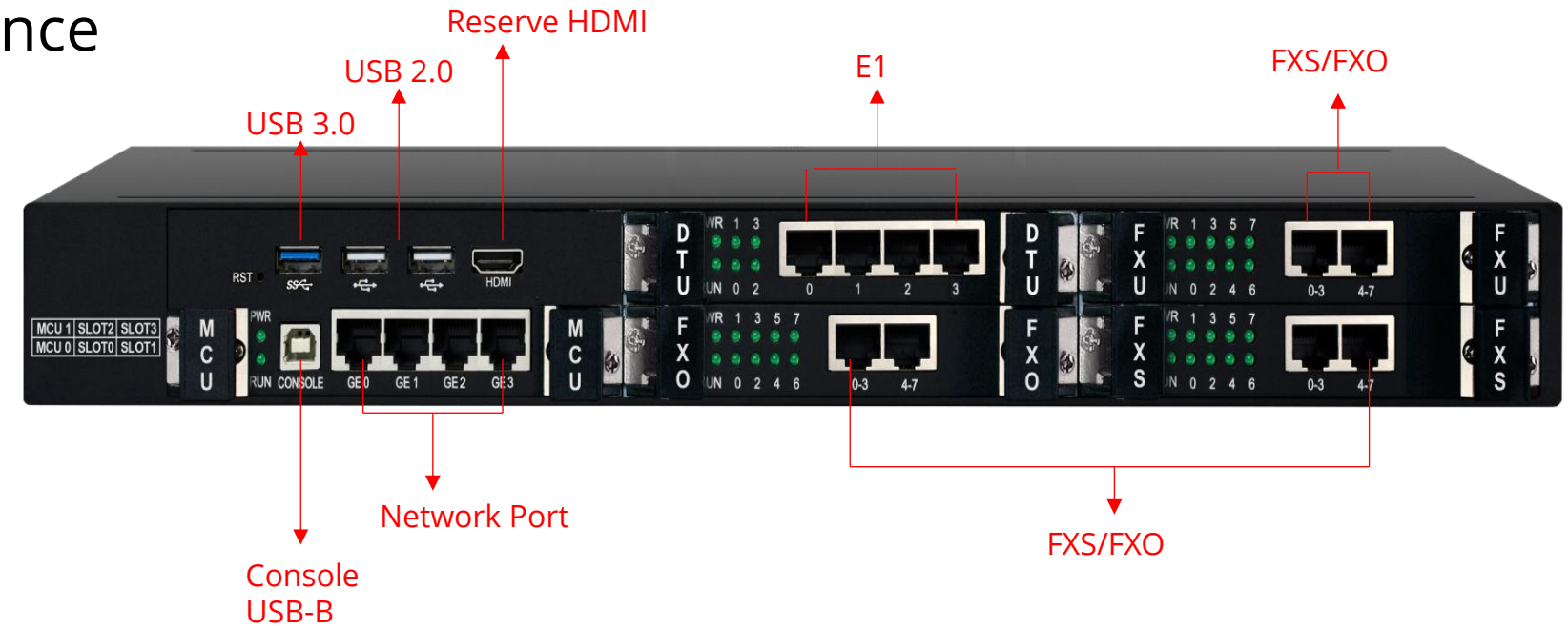


Back

UC350 Pro

- Appearance

Front 1U



Back

UC350&UC350 Pro

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- Key feature

Record
Voice Conferen
Bill
Hot Standby
IVR
Attendant Desk
Dual Power
Hotel PMS
User Board Hot Plug

Safe & Reliable:

IP firewall TLS/SRTP/ZRTP encryption
Right Control Anti-password cracking

Open & Compatibility:

SIP/IMS protocol
Compatible with mainstream softswitch and terminal equipment

UC350

1000 SIP Account
120 concurrence

4E1/
32*FXS/FXO

2*GE

UC350 Pro

5000 SIP Account
500 concurrence

4~16E1/
32*FXS/FXO

4*GE

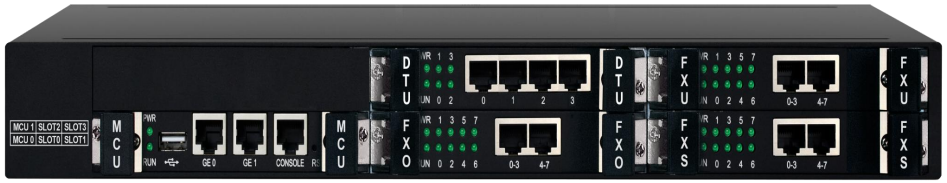
UC350&UC350 Pro (continue)

- Different

	UC350	UC350 Pro
		
Capacity:	500 extension，120 concurrence	5000 extension，500 concurrence
Ethernet:	2 Gigabit Interface	4 Gigabit Interface
E1:	Maximum 4 E1	Maximum 16 E1
USB:	1 USB2.0	1*USB3.0 and 2*USB2.0
Expand Hard Disk:	USB Mobile HDD	USB Mobile HDD and Expand HDD

UC350&UC350 Pro (continue)

- Description of Indicators



Type	Indicator	Definition	Status	Description
MCU Board	PWR	Power Indicator	Off	There is no power supply or power supply is abnormal
			On	The device is powered on
	RUN	Running Indicator	Flashing	The device is initialized successfully and running normally
			On	The system is initializing
			Off	The device is not running normally
FXS/FXO/FXU User Board	PWR	Power Indicator	On	The power supply is normal
			Off	The power supply is not normal
	RUN	Running Indicator	Off	The system is starting up
			Fast Flashing	Part of the port registered successfully
			Slow Flashing	All ports are registered
	FXS/FXO	FXS/FXO Indicator	On	The FXS port is in off-hook (in-use) status
			Off	The FXS port is in on-hook status.
DTU User Board	PWR	Power Indicator	Off	There is no power supply or power supply is abnormal
			On	The device is powered on
	RUN	Running Indicator	Slow Flashing	The device is initialized successfully and running normally
			On	The system is initializing
			Off	The device is not running normally
	E1/T1	E1/T1 Indicator	On	E1/T1 line is connected
			Off	E1/T1 line is disconnected

UC8000

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- Software

Flexible Expansion

On-demand assembly based on enterprise scale, supporting cloud and virtual machine deployment

Function Rich

Supports CDRS, recording, attendant desk, billing interfaces

Routing Policy

Based on multiple strategies such as time/number prefix, more flexible and efficient

Security Assurance

Signaling media encryption such as TLS,SRTP,ZRTP

Adaptive Widly

Universal operating system

Flexible Interface

Third part API

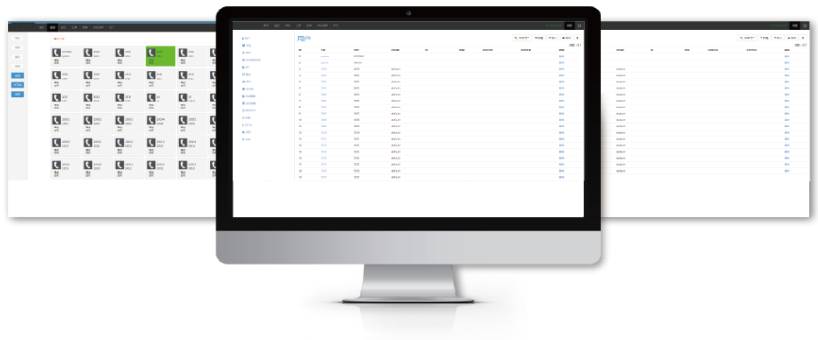
20,000 extension

4,000 concurrence

Hot standby

Multi-party conference call

X86/ARM



UC APP

- DinLink

Remote Access
Mobile Working

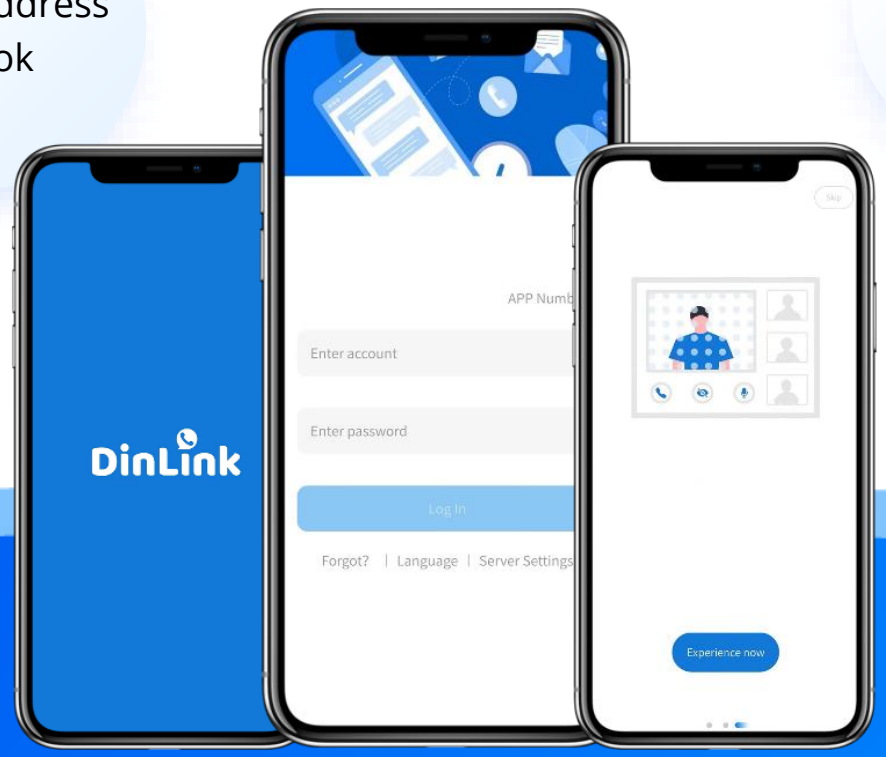
Local Address
Book

Video Call

Free Call
Extension

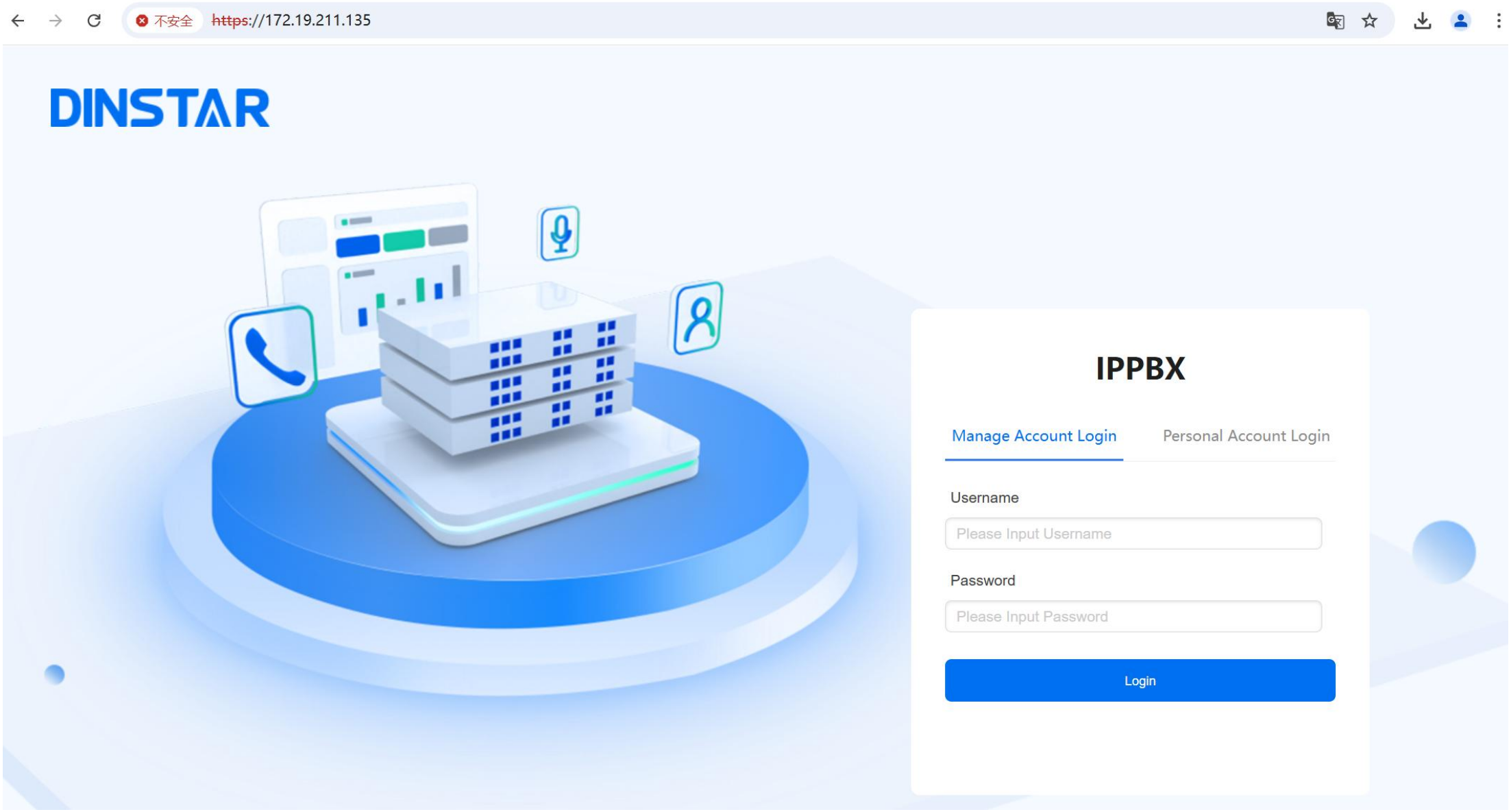
Enterprise
Address Book

Incoming
Call Popup



Supports Android & iOS

UC Login


不安全
https://172.19.211.135
DINSTAR
IPPBX
Manage Account Login
Personal Account Login
Username
Please Input Username
Password
Please Input Password
Login

Rich Service Function

- ✓ Call Transfer
- ✓ Call Forward
- ✓ Call Paking
- ✓ Call Responder
- ✓ Call Record
- ✓ Call Unconditional
- ✓ Call Holding
- ✓ Call Waiting
- ✓ Call Follow
- ✓ Call Billing
- ✓ CID
- ✓ DND
- ✓ Ring Group
- ✓ Conference
- ✓ Mobile Extension
- ✓ Address Book
- ✓ Fast Dial-up
- ✓ Call Queue
- ✓ Special Bell
- ✓ Broadcast Intercom

- ✓ CallBack
- ✓ Auto-attendant
- ✓ Waiting Voice
- ✓ Enterprise switchboard
- ✓ Video Call
- ✓ Hot Line
- ✓ Attendant Desk
- ✓ Black&White List
- ✓ Call Monitor
- ✓ Forced Insert&Release
- ✓ Custom Prompt Tone
- ✓ Hot Standby
- ✓ PIN List
- ✓ Event Report
- ✓ PNP Auto Configuration
- ✓ Voice Mail
- ✓ Multiple User Right
- ✓ Voice Firewall
- ✓ Routing Based on Time
- ✓ Real Status Monitor
- ✓ T.30/T.38 Fax
- ✓ Message Transfer Email
- ✓ Multiple Language UI

Contents

UC IPPBX Network And Application

03

3.1 UC IPPBX Application Scenario

3.2 UC IPPBX Typical Networking

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Application Scenarios

- UC IPPBX applicable industry

Finance and Insurance

Hotel

Factory

Energy and Electric Power

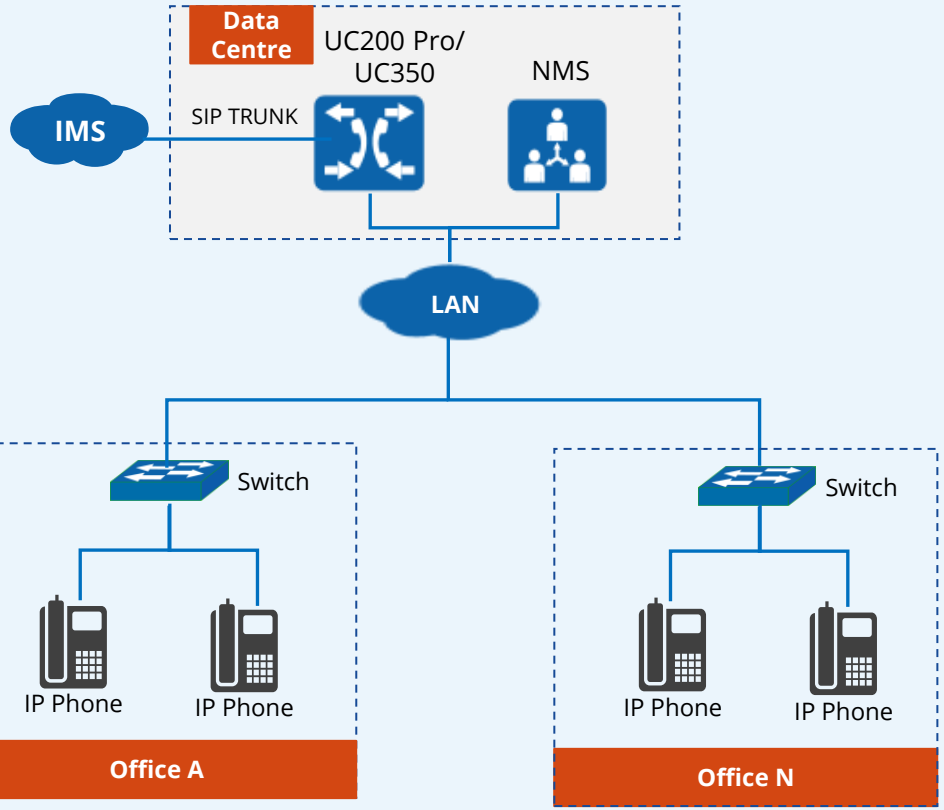
Education

Express

Typical Networking

- Overview
  - A new IP-based communication office telephone system
  - Provide enterprises with daily telephone services
  - Quickly installed and deployed
  - Easy to maintain
- Value
  - All IP access, networking simple
  - Fast deployment, fast delivery
  - Easy maintenance and expansion
- Scenario
  - 200-1000 user
- Product
  - UC350 & C6 IP Phone

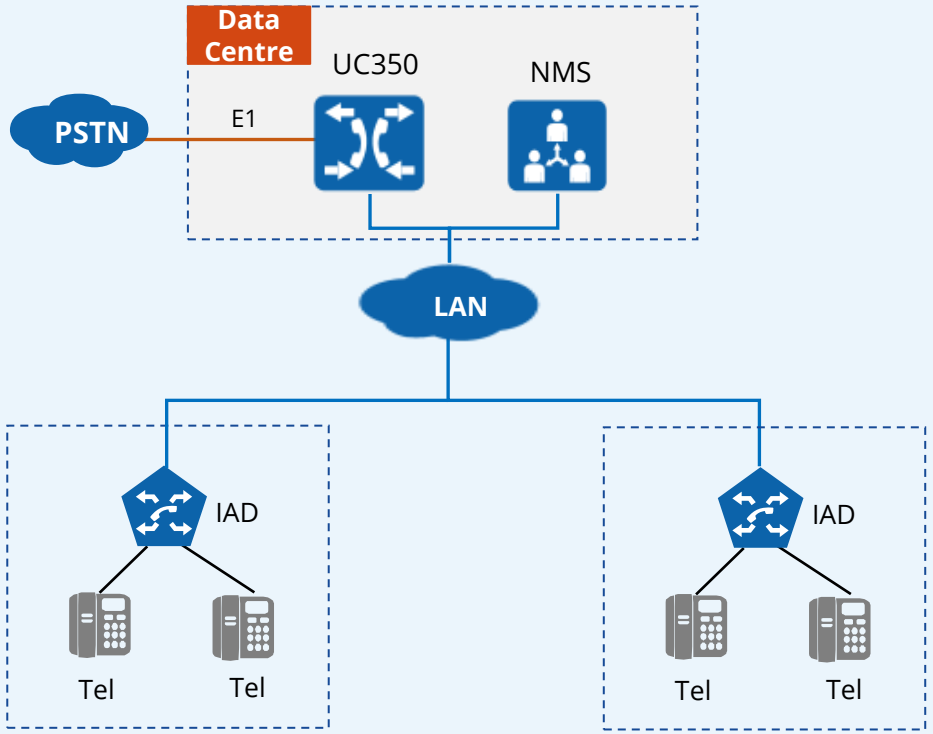
New System



Typical Networking (continue)

- Overview
  - Upgrade existing traditional PBX by IP
  - Retain analog phones
  - Keep the original user's habits
  - Smooth upgrade and save costs
- Value
  - High integration and flexible deployment (FXS/FXO/E1)
  - Resources benefit the old and save costs
  - Easy maintenance and expansion
- Scenario
  - Traditional PBX update
- Product
  - UC350 & DAG 3000-312S

Update System



Summary

- This course we already learn:
  - What is PBX&IPPBX
  - Dinstar UC IPPBX main function and key feature
  - Dinstar UC IPPBX application scenario

Abbreviation

- PBX:Private Branch Exchange
- IPPBX: Internet Protocol Private Branch Exchange
- SIP:Session Initiation Protocol
- CID:Caller Identification
- DND: Do Not Disturb

DINSTAR

THANKS

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