Quick Installation Guide

☑ UC350☑ UC350 Pro

THANKS FOR CHOOSING DINSTAR'S PRODUCTS!

Please read this guide carefully before installing the device. If you need any technical support, Please contact us. Tel: +86 755 61919966 Email: support@dinstar.com Web: www.dinstar.com

1 Models and Interfaces

	MCU Board	User board (FXO, FXS, FXU, DTU)
UC350	2*Network Ports 1*USB 2.0 Port 1*Console Port	FXS Board: 2*RJ45 with 8 FXS FXO Board: 2*RJ45 with 8 FXO FXU Board: 2*R J45 with 4 FXS and 4 FXO
UC350 Pro	4*Network Ports 2*USB 2.0 Ports 1*USB 3.0 Port 1*Console Port 1*HDMI Port	DTU Board: 4*RJ45 with 4 E1/T1 Ports

2 Description of Indicators

Туре	Indicators	Definition	Status	Description
	DW/P	Power	OFF	There is no power supply or the power supply is abnormal
мси	FWK	Indicator	ON	The device is powered on
board			Flashing	The device is initialized successfully and running normally
	RUN	Running Indicator	ON	The system is initializing
			OFF	The device is not running normally
	DWD	Power	ON	The power supply is normal
EXELENCI	PWR	Indicator	OFF	The power supply is not normal
FXU FXU User Board	RUN	Running	Fast Flashing	The system is starting up
		Indicator	Slow Flashing	Part of the port registered successfully
		FXS/FXO	ON	The FXS port is in off-hook (in-use) status
	1 X0/1 X0	Indicator	OFF	The FXS port is in on-hook status
	PWR	Power	OFF	There is no power supply or the power supply is abnormal
DTU User Board		Indicator	ON	The device is powered on
	DUN	Running	Slow Flashing	The device is initialized successfully and running normally
	KUN	Indicator	ON	The system is initializing
			OFF	The device is not running normally

	E1/T1	ON	E1/T1 line is connected
E1/11	Indicator	OFF	E1/T1 line is disconnected

3 Indicators and Ports

► UC350

Front View:



Back View:



► UC350 Pro

Front View:



Back View:



4 Installation Attentions

- The adapter of the gateway accepts DC220V 10A dual power input. Please ensure it is workable and safe.
- To reduce the interference to telephone calls, please separate power supply cables from telephone lines.
- To guarantee running of the gateway as usual, please make sure that there is sufficient network bandwidth.
- For better heat dissipation, please place the gateway on a level surface and ensure space for other devices.

5 Installation Instructions

• Connect with Power Input



• Connect with Grounding Lug



• Connect telephone line to the FXS port and connect PSTN line to the FXO port





Connect to E1/T1 Ports



Connect to FXS ports and FXO ports



Note: Ports 0-3 are FXS, and ports 4-7 are FXO.

PBX or E1/T1 Board with RJ48 Interface

Connect with Ethernet



Note: The UC350's default network port for management is the GE1 port, and the UC350 Pro's default network port for management is the GE3 port.

6 RJ45 Wire Sequence

UC350 series products support RJ45 Interfaces for FXS/FXO connections. One RJ45 cable can be split into four pairs of RJ11 interfaces. The outlook wire sequence of RJ45 cable is shown as follows:



7 Modify PC's IP Address

To log in to the Web Management System of the device, firstly, you need to modify the IP address of the PC that is used to access the device and to make it at the same network segment as the device's network port of management.



Select 'Use the following IP address', and then enter an available IP address '192.168.11.XXX' which is at the same network segment with '192.168.11.1'.

Internet Protocol Version	4 (TCP/IPv4) Properties
General	
You can get IP settings assigned auton this capability. Otherwise, you need to for the appropriate IP settings.	natically if your network supports ask your network administrator
Obtain an IP address automatical	ly
Use the following IP address:	
IP address:	192 . 168 . 11 . 20
Subnet mask:	255.255.255.0
Default gateway:	192.168.11.1

8 Login Web GUI

Open a browser and enter the default IP address of the network port for management:

https://192.168.11.1. Enter the username and password to log into the system. The username and password are admin/admin@123#.

Note: The UC350's default network port for management is the GE1 port, and the UC350 Pro's default network port for management is the GE3 port. New devices can only modify the IP address through the management port. The UC350 Pro login interface is shown below:



9 Check Network Status

Check the network status on the "System->Network" page.

VLAN Sub Interfece Static Route Hosts DDNS Service & Port Freewall GE0	N	etwork									
GEO IPv4 Enabled IPv6 Enabled Type Static Type Static IPv6 Enabled TP Address 172.28.21.21 IP Address 2020-2121,680-2x472ff.6835.b100 IPv6ms Netmask 255.255.0.0 Prefix Length 64 Gateway 2020-1 Prefered DNS 8.8.8 Prefered DNS 2020-1 IPv6ms 2020-1 Alternate DNS 114.114.114.114 Alternate DNS 2020-1 IPv6ms 2020-1 RX / TX (Per Sacond) 11.79 KB (6P Kts.) RX / TX (Per Sacond) 11.79 KB (6P Kts.) IPv6ms		Setting	VLAN Sub In	terface	Static Route	Hosts	DDNS	Service & Port	Firewal	I	
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10 Modify Network Configuration

You need to modify the IP address of the network ports for service so that the ports and the upstream network are in the same network segment.

Firstly, you need to physically connect the device's network port for management. Then log into the device by entering the IP address of the network port for management in the web browser and click "System->Network" to configure the IP address of the network ports for service. Click "Save" and "Reset" to make the settings take effect.

Edit Network

Inte	orface	GE0	\sim
MT	U	1500	
Me	tric		
IPv	4 IP Address	172.28.21.21	
	Netmask	255.255.0.0	\sim
	Default Gateway	172.28.1.1	
	Prefered DNS server	8.8.8.8	
	Alternate DNS server	114.114.114.114	
IPv	6		
	Mode	Static address	~
	IP Address	2020::2121/64	
	Default Gateway	2020::1	
	Prefered DNS server	2020::1	
	Alternate DNS server	2020::1	

11 Create SIP Extensions

Click "Extension & Call Group->SIP Extension" to create the SIP extension: add/delete/disable/enable, etc. UC350 Pro supports batch add or import account files.

Note: when add the extension, the profile should be chosen as the corresponding one.

SIP Extension SIP Phone		
Basic Settings		
Status		
Index	1	~
Name		
Extension		
Password		0
Classification Tag		
DID		۲
Outbound CID		
SIP Profile	1-< GE3_default >	~

New SIP Extension

After setting, you need to click "apply" to make the settings take effect.

The registration status of SIP extension can be checked on the "Extension & Call Group->SIP Extension->Status" page. If the status of a newly added SIP account is "registered", it means that the device

If the status of a newly added SIP account is "registered", it means that the device accepts the registration of the extension.

If the status of the SIP account is "unregistered", it means that the device rejects to register the extension.

12 Add Trunk

• SIP Trunk

SIP trunks are used to connect other SIP terminals or service providers. When adding a SIP trunk, you should choose corresponding SIP profile based on your current network. The SIP trunk supports UDP/TCP/TLS.

You can create a new SIP trunk on the "Trunk & Route->SIP Trunk->Setting" interface, and SIP trunk status can be checked under "Trunk & Route->SIP Trunk->Status" interface.

New SIP Trunk

Status		
Index	5	~
Name		
Address		
Port		
Outbound Proxy		
Port		
Transport	UDP	~
Register		
From Header User Part	Caller's Number	~
From Header Display Name	Caller's Number	~
From Header Host	Local Address	~
Heartbeat		
AutoCLIP Profile	Off	\sim
DNIS		
SIP Profile	1-< GE3_default >	~
Outbound Codec Profile	1-< default >	~
Extra Param		
Inbound Concurrency	9999	
Outbound Concurrency	9999	
Total Concurrency	9999	
5 million - 5 Million - John - 1999 A. A. A		

• FXO

You can also create Trunk/FXO. It is an alternative to support calls go through or from PSTN.

New FXO Trunk

Basic Settings		
Status		
Slot	0	~
Port	0	×
Number		
Autodial Number		

• E1/T1

You can set up ISDN PRI/SS7 connections via digital E1/T1 ports. Please be sure that the E1/T1 physical connection is well connected, and PRI status is in up and active status before configuring the call routing.

New E1/T1

I.	PRI Trunk		
	Protocol	ISDN	\sim
	Switch Side	User Side	\sim
	Alerting Indication	ALERTING	\sim
I.	PRI Parameter		
	Calling Party Numbering Plan	ISDN/Telephony numbering plan	\sim
	Calling Party Number Type	Unknown	\sim
	Screening Indicator for Displaying Caller Number	User-provided, not screened	\checkmark
	Screening Indicator for No Displaying Caller Number	User-provided, not screened	\sim
	Called Party Numbering Plan	ISDN/Telephony numbering plan	\sim
	Called Party Number Type	Unknown	~
	Information Transfer Capability	Speech	\sim

13 Configure Inbound / Outbound Route

Nour Douto

On the "Trunk & Route->Route" interface, you can configure routes for incoming calls and outgoing calls, and select the call Source and Destination addresses for the route. When the configured route is activated, the system will match the route based on the priority index. The key configuration of route is at "condition" part. Here, you can configure the route based on the caller/Called Number prefix and time.

F	Priority	299		~
٢	Name			
	10			
Cor	ndition			
5	Source	Select All Source list		Select All Target list 0/0
		0/4015	>	
		Local Extension		
		SIP Trunk / 21.111	<	
		SIP Trunk / TG-47		
		SIP Trunk / TG-1.42		
		SIP Trunk /		
		172.28.66.79	•	
			$\overline{}$	
			\sim	
			\sim	
			\sim	
			_	
Ν	Number Profile	Off		\sim
C	Caller Number Prefix			
	2-11-1 March D 6-			
C	Jailed Number Pretix			
T	Time Profile	Any		~
Act	tion			
C	Callback			
0	Distinctive Ringtone(Alert-Info)	None		\sim
Ν	Manipulation	Off		~
C	Destination	SIP Trunk / 21,111		~
	Password Tuno	05		
	r approval type	UT		\sim
F	Recording Profile	Off		\sim
	Failover Action			

14 Regular Expression

• Caller/Called number prefix supports regular expression Regular Expression Syntax

^	Matches the starting position in a number string. For example, ^134 matches the numbers starting with 134.
\$	Matches the ending position of a string. For example, 2\$ matches the numbers ending with 2.
_	Separates alternate possibilities. For example, 2 3 4 means 2,3 or 4.
\	Marks the next character as a special character, a literal, a back reference, or an octal escape.
[]	Matches a single character that is contained within the bracket. For example, [1 23] matches 1, 2, or 3. [0-9] matches any digit from "0" to "9".
[^]	Matches any one character except those enclosed in []. For example, [^9] matc hes any character except 9.
	Matches any single character except the newline character. For example, 3.4 m atches 314, 324, 334, 344.
?	Indicates there is zero or one of the preceding element. For example, colour matches both color and colour.
*	Indicates there is zero or more of the preceding element. For example, ab*c ma tches ac, abc, abbc, abbbc, and so on.
+	Indicates there is one or more of the preceding element. For example, ab+c mat ches abc, abbc, abbbc, and so on, but not ac.
/d	Marks any digit, equal to [0-9].
/D	Marks any character that is not a digit, equal to [^0-9].
/s	Marks any blank character such as a space or a tab.
/S	Marks any character that is not a blank character.

• Examples of Regex Syntax:

^0755	Matches the phone numbers with starting digits of 0755.
^0755 ^8899 ^0110	Matches the phone numbers with starting digits of 0755, 8899 or 0110.
^[1][358][0-9]{9}\$	Matches the phone numbers with the first digit as 1, the second digit as 3, 5 or 8, the left nine digits as any of 0 to 9.

15 Basic Operation

Dial *114# to query the telephone number of a FXS port; Restart the device:

1 Dial *111# to restart the device;

Click "system->Reboot" menu to perform reboot.

16 More Details

This document only provides instructions for quick installation and basic configuration. For detailed configuration and parameter explanations, Please refer to User Manual or ask for technical support.

IP COMMUNICATION SOLUTIONS

Shenzhen Dinstar Co., Ltd. Web: www.dinstar.com

