

Quick Installation Guide

UC120

UC200

THANKS FOR CHOOSING DINSTAR'S IP PBX!

Please read this guide carefully before installing the device. If you need any technical support, please contact us.

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1 Product Models & Number of Ports

► UC120/UC200

Model \ Ports	WAN	LAN	LTE	FXS	FXO
UC120-1V1S1O	1	1	1	1	1
UC120-1V2S	1	1	1	2	NA
UC120-1V2O	1	1	1	NA	2
UC120-1S1O	1	1	NA	1	1
UC120-2S	1	1	NA	2	NA
UC120-2O	1	1	NA	NA	2
UC200-2S2O	1	1	NA	2	2

2 Description of Indicators

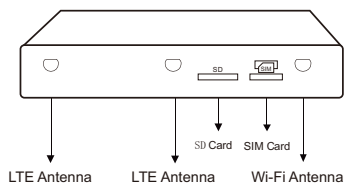
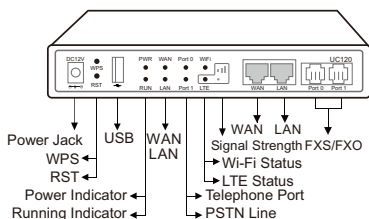
Indicators	Definition	Status	Description
PWR	Power Indicator	ON	The device is switched on
		OFF	The power is switched off or there is no power supply
RUN	Running Indicator	Slow Flashing	The device is running properly
		Fast Flashing	The device is initializing
		ON/OFF	The device is running improperly
FXS	Telephone In-use Indicator	ON	FXS Port is in-use status
		OFF	FXS port is faulty
		Slow Flashing	FXS port is in idle status
FXO	FXO In-use Indicator	ON	FXO Port is in-use status
		OFF	FXO port is faulty
		Slow Flashing	FXO port is in idle status
WAN/LAN	Network Link Indicator	Fast Flashing	The device is properly connected to network
		OFF	The device is not connected to network or network connection is working in the improper way

GE	Network Link Indicator	Fast Flashing	The device is connected properly to network
		OFF	The device is not connected to network or network connection is working in the improper way
	Network Speed Indicator	ON	Work at 1000Mbps speed
		OFF	Network speed lower than 1000Mbps
Wi-Fi	Wi-Fi Enable/Disable Indicator	ON	Wi-Fi modular is faulty
		OFF	Wi-Fi is disabled or faulty
		Fast Flashing	Wi-Fi is enabled
SIM	LTE Indicator	Fast Flashing	SIM card is detected and registered to mobile network successfully. The indicator flashes every 2 seconds
		Slow Flashing	The device cannot detect with LTE/GSM module, or LTE /GSM module is detected but SIM card is not detected; The indicator flashes every 4 seconds
RST	/	/	The port is used to restart device

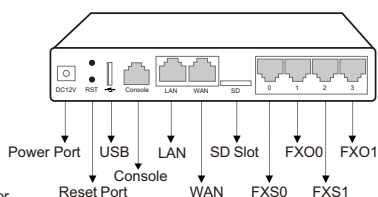
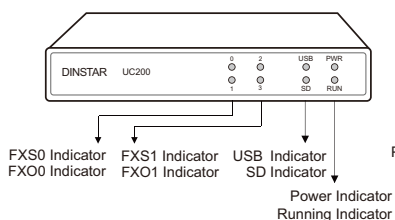
Note: The above table does not contain all the indicator information. For more information, please refer to the user manual or contact technical support.

3 Indicators and Ports

► UC120



► UC200

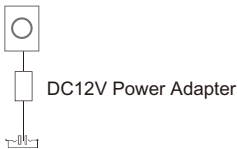


4 Installation Attentions

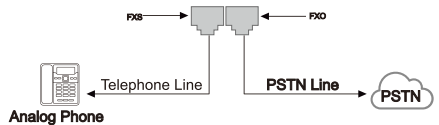
- ◆ UC120 and UC200 are equipped with 12VDC power adapter, while UC350 accepts AC input voltage of 100-240V 50/60Hz. Please ensure safe and stable power supply.
- ◆ Please ensure there is enough network bandwidth to guarantee stabilized running of the device.
- ◆ To guarantee device works normally and to lengthen the service life of the device, the humidity of the equipment room where device is installed in temperature should be 0 °C~ 45 °C.
- ◆ To reduce the interference with telephone calls, it's highly recommended that telephone lines connected to the gateway should be placed away from power cables.
- ◆ Because of differences between product models, some parameters or supported ports may be different. Please contact technical support if they are not clearly stated or if they differ from the current parameters or ports.

5 Installation Instruction

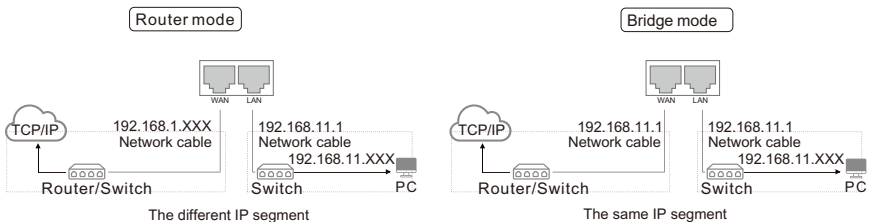
● Power Connection



- Connect analog phone to FXS or connect PSTN line to FXO



● Network Connection

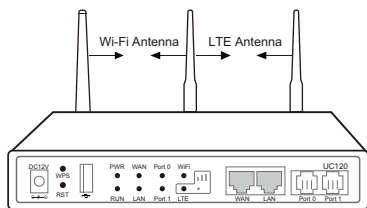


UC120/UC200 supports router mode and bridge mode. The above figure shows the network connection in router mode. In router mode, the default IP of WAN port is DHCP, and the default IP of LAN port is 192.168.11.1.

The above figure shows the network connection in bridge mode. In bridge mode, WAN and LAN port use the same IP address. The default IP address is 192.168.11.1.

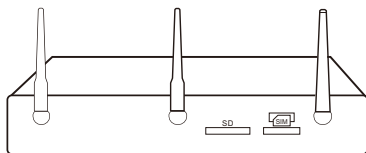
Note: UC120 can also be connected through Wi-Fi. The default SSID of the device is "domain_ [last 6 digits of MAC address]" without password.

- Antenna Installation (UC120)



Install Wi-Fi antenna (foldable antenna) and install LTE antenna (flat paddle antenna) on the rear panel.

- Insert SIM card to SIM slot (UC120-1V1S10 /UC120-1V2S/ UC120-1V2O)

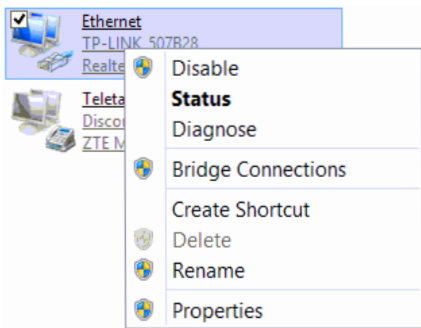


Insert (with the chip facing downwards)

6 Modify PC's IP Address

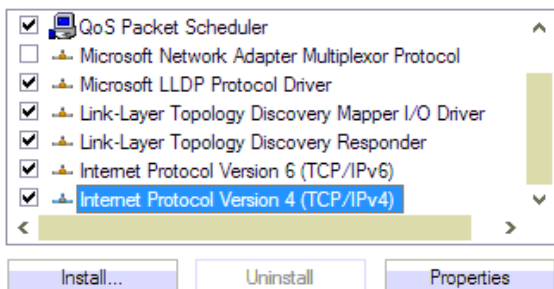
To log in the Web Management System of the device, firstly, you need to modify the IP address of PC which is used to access the device and to make it at the same network segment with the device.

- 1 On the PC, click '**Network (or Ethernet) → Properties**'.

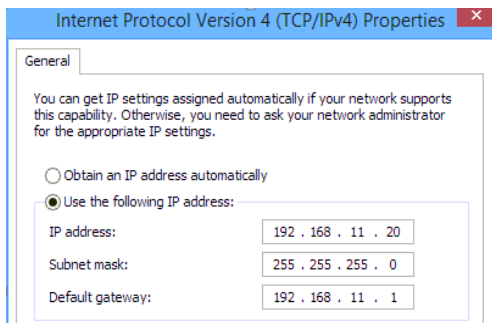


- 2 Double-click '**Internet Protocol Version 4 (TCP/IPv4)**'.

This connection uses the following items:



- 3 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'.



7 Log in Web Management System

Open a web browser and enter the IP address of LAN port (the default IP is 192.168.11.1). You also can enter the IP address of WAN port, but it's required to modify the IP address of PC to make it at the same network segment with that of WAN port.

Username: admin

Password: admin@123#

8 Check Network Status

Users can check network status on the "Status → Overview" page.

For LTE device, view the SIM card status and signal strength on the "status → Overview" page, while for GSM devices, check the status on the "status → PSTN" page.

System	Device Model UC120-1V1S10	Performance	CPU 3 / 100 (3%)
Device SN D860-0520-1314-0001	Hardware ID 4834-1368-2823	Filesystem 1476 MB / 1636 MB (73%)	Memory 2468 B / 212964 KB (34%)
Firmware Version 1.55.3.3 2023-03-14 15:30:51 CST +0800	Local Time 26-05-2023 16:45:43		
Uptime 16 h 45 m 5 s	Cloud Server Disabled		
WAN Network	MAC Address FB-A0-3D-59-F7-1A	VoLTE Network	READY
Type Static	IP Address 172.19.211.110	Module SIM Card SIM Not Inserted Detect	
Netmask 255.255.0.0	Gateway 172.19.1.1	Mode Auto / Unknown / Unknown	
Preferred DNS server 114.114.114.114	Alternate DNS server 8.8.8.8	Carrier UNKNOWN	
RX / TX (Per Second) 1.98 KB (15 Pkts.) / 1.23 KB (4 Pkts.)	RX / TX (Total) 73.64 MB (711207 Pkts.) / 23.59 MB (85730 Pkts.)	Signal +	
		IP Address 0.0.0.0 Connect	
		Preferred DNS server 0.0.0.0	
		Alternate DNS server	
		RX / TX (Per Second) 0 Bytes (0 Pkts.) / 0 Bytes (0 Pkts.)	
		RX / TX (Total) 0.00 B (0 Pkts.) / 0.00 B (0 Pkts.)	
LAN Network	MAC Address FB-A0-3D-59-F7-19	WiFi Network	MAC Address FB-A0-3D-59-F7-18
Type Static	IP Address 192.168.11.1	SSID Training_LUC120	
Netmask 255.255.255.0	RX / TX (Per Second) 0 Bytes (0 Pkts.) / 0 Bytes (0 Pkts.)	Channel 11	
RX / TX (Total) 0.00 B (0 Pkts.) / 0.00 B (0 Pkts.)		Encryption none	
		RX / TX (Per Second) 0 Bytes (0 Pkts.) / 0 Bytes (0 Pkts.)	
		RX / TX (Total) 0.00 B (0 Pkts.) / 0.00 B (0 Pkts.)	

9 Modify Network Configuration

Log into the device and click "Network → Settings" at the top menu bar to configure IP addresses of network ports. Click "Save" and "reset" to make the settings take effect. After modification, you need to "apply" or click "Save" and "reset" to make the settings take effect.

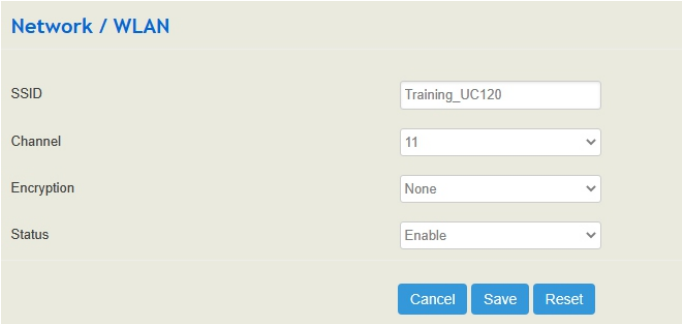
Network / Setting

Network Model	Route
WAN	
Protocol	Static address
IP Address	172.19.211.110
Netmask	255.255.0.0
Default Gateway	172.19.1.1
Prefered DNS server	114.114.114.114
Alternate DNS server	8.8.8.8
Disable Private Internets(RFC1918) DNS responses	<input checked="" type="checkbox"/>
IP Address 2	
Netmask 2	255.255.255.0
MTU	1500
LAN	
IP Address	192.168.11.1
Netmask	255.255.255.0
MTU	1500

Note: The default network mode of UC120 and UC200 is router mode, and it can be set to bridge mode. In router mode, the IP address of WAN port and LAN port should be in different network segments. The default IP address of WAN port is obtained by DHCP, while the default IP address of LAN port is 192.168.11.1. In bridge mode, WAN port and LAN port use the same IP address.

10 Modify Wi-Fi Settings

Wi-Fi is enabled by default. Go to "network → WLAN" page to turn off the wireless or modify relevant parameters.



Network / WLAN

SSID

Channel

Encryption

Status

The default SSID of the device is "domain"_[last six digits of MAC address] ". Except default SSID, users can create 3 more SSIDs. After modifying the WLAN parameters, you need to click "apply" to make the settings take effect.

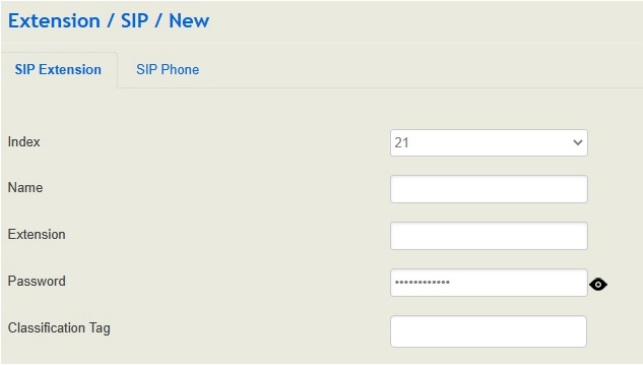
11 Create SIP Extensions

Click "Extension→SIP" to create the SIP extension. UC Series devices support batch add or import account files.

When add the extension, the profile should choose the corresponding one. After setting, you need to click "apply" to make the settings take effect. The registration status of SIP extension and SIP trunk can be checked on the "Status → SIP" page.

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

Note: The number of SIP registered users is different for different models. Please visit the website or contact technical support to get more details.



Extension / SIP / New

SIP Extension SIP Phone

Index

Name

Extension

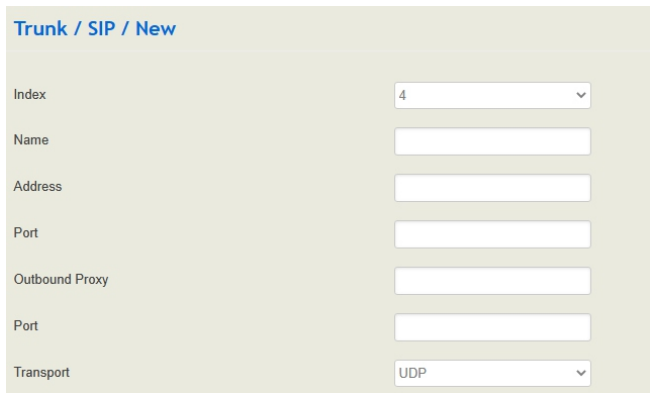
Password

Classification Tag

12 Trunk Configuration

► Configure SIP Trunk

SIP trunks are used to connect third party IPPBX or service providers. When add a SIP trunk, you should choose corresponding SIP profile based on your current network. The SIP trunk supports UDP/TCP/TLS. Also, SIP trunk status can be checked under Status → SIP page.

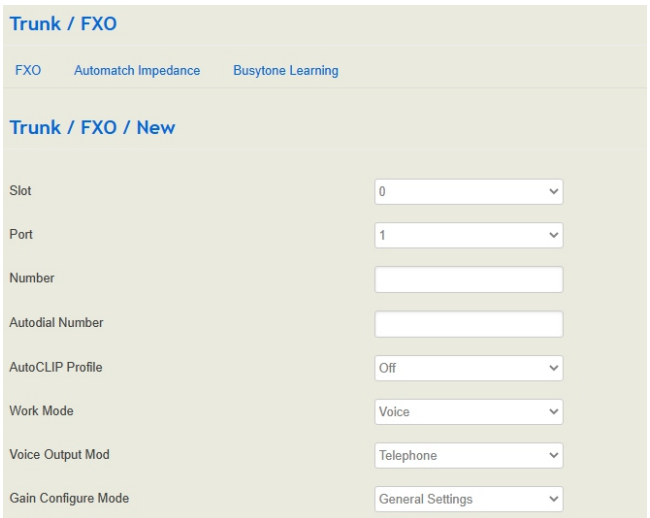


The screenshot shows a configuration page titled "Trunk / SIP / New". It contains several input fields for configuring a SIP trunk:

- Index: 4 (dropdown)
- Name: (text input)
- Address: (text input)
- Port: (text input)
- Outbound Proxy: (text input)
- Port: (text input)
- Transport: UDP (dropdown)

► Configure FXO

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

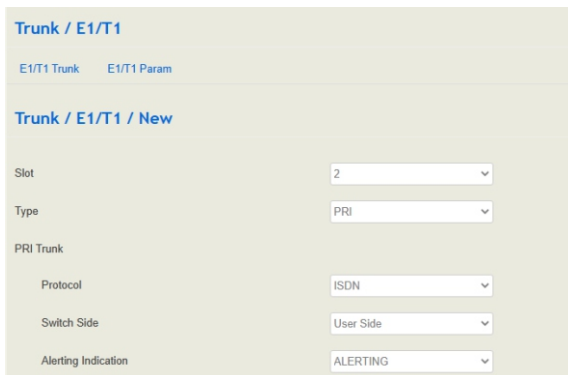


The screenshot shows a configuration page titled "Trunk / FXO". It has three tabs: "FXO", "Automatch Impedance", and "Busytone Learning". The "FXO" tab is active, showing a sub-section "Trunk / FXO / New" with the following fields:

- Slot: 0 (dropdown)
- Port: 1 (dropdown)
- Number: (text input)
- Autodial Number: (text input)
- AutoCLIP Profile: Off (dropdown)
- Work Mode: Voice (dropdown)
- Voice Output Mod: Telephone (dropdown)
- Gain Configure Mode: General Settings (dropdown)

► Configure E1/T1

Users can set up ISDN PRI/SS7/R2 connections via digital E1/T1 ports. Please be sure the E1/T1 physical connection is well connected, and PRI status is up and active before configuring the call routing.



Trunk / E1/T1

[E1/T1 Trunk](#) [E1/T1 Param](#)

Trunk / E1/T1 / New

Slot

Type

PRI Trunk

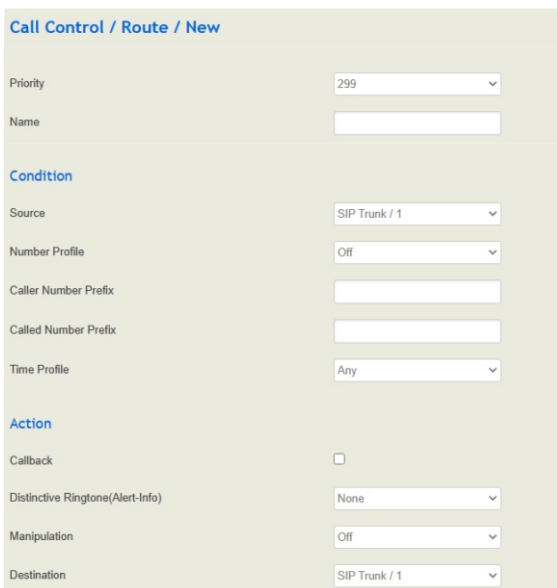
Protocol

Switch Side

Alerting Indication

13 Configure Outbound / Inbound Rule

On the "Call Control → Route" interface, you can configure routes for incoming calls and outgoing calls. For the outbound route rule, destination can be FXO trunk, GSM trunk and SIP trunk; For the inbound route rule, the destination can be SIP extension, FXS extension, local extension, ring group or IVR.



Call Control / Route / New

Priority

Name

Condition

Source

Number Profile

Caller Number Prefix

Called Number Prefix

Time Profile

Action

Callback

Distinctive Ringtone(Alert-Info)

Manipulation

Destination

14 Basic Operation

- ◆ Dial *158# to query the IP address of LAN port of the device ;
- ◆ Dial *159# to query the IP address of WAN port of the device ;
- ◆ Dial *114# to query the telephone number of a FXS port ;
- ◆ Restart the device:
 - ① Dial *111# to restart the device.
 - ② Click "system->Reboot" menu to perform reboot.
- ◆ RST button:
 - ① Under normal running status, press RST button 3 to 6 seconds will restore default username/password, and network mode will be changed to route mode as well. Other configurations will keep the same.
 - ② Under normal running status, press RST button 6 to 12 seconds, the device will restore factory default and reboot automatically.
 - ③ When the device is power off, press RST button more than 30 seconds after it power on, the device will clear all the configurations and restore to mini-system management.

Note: For UC350, please dial *158# to query the IP address of GE0 port of the device is only available for FXO/FXS user boards. If your user board is E1/T1 boards, it has to query the IP address from CONSOLE.

15 More Details

This document only provides instructions for quick installation and basic configuration.

For detailed configuration and Parameter explanation, Please refer to User Manual or ask for technical support.

IP COMMUNICATION SOLUTIONS

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