


DINSTAR UC200-2S2O VoIP Gateway Installation Guide

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Quick Installation Guide UC200-2S2O

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UC200-2S2O VoIP Gateway

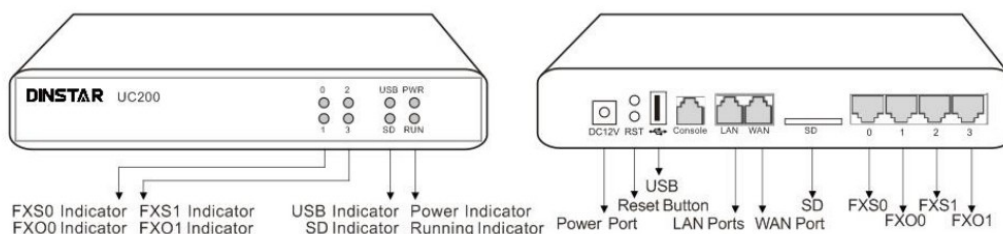
1. UC200 Model and Interfaces

Interface Model	WAN	LAN	FXS	FXO
UC200-2S2O	1	1	2	2

Indicators

Indicators	Definition	Status	Description
PWR	Power Indicator	ON	The device is powered on
		OFF	The device is powered 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	In-use Indicator	ON	FXS Port in-use
		OFF	FXS port faulty
		Slow Flashing	FXS port in idle status
FXO	In-use Indicator	ON	In-use
		OFF	FXO port faulty
		Slow Flashing	FXO port 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 improper

Indicators and Ports



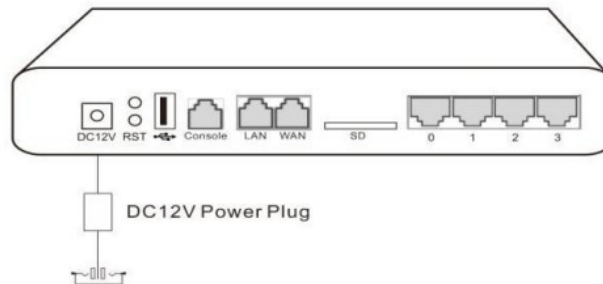
Installation Attentions

- The device accepts DC12V input. Please ensure stable and safe power supply;
- 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;
- Please ensure there is enough network bandwidth so as to guarantee stabilized running of the device;

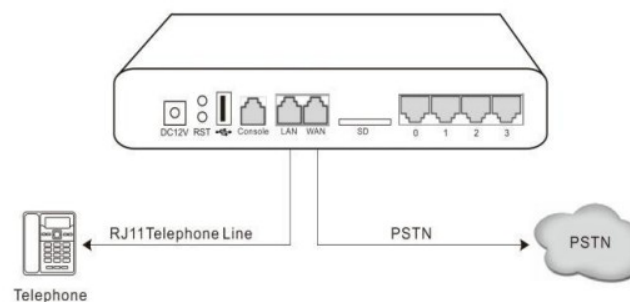
- Please place the equipment on a horizontal surface if possible, do not stack the equipment to avoid heat dissipation;

Hardware installation & network connection

Connect the power adapter to power jack (All models).

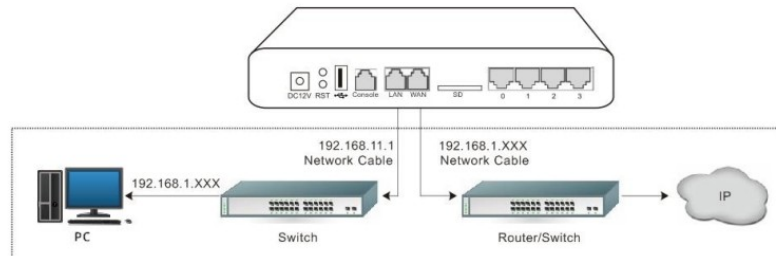


Connect analog phone to FXS or connect landline to FXO (All models).



Connect network cable to WAN and LAN (All models)

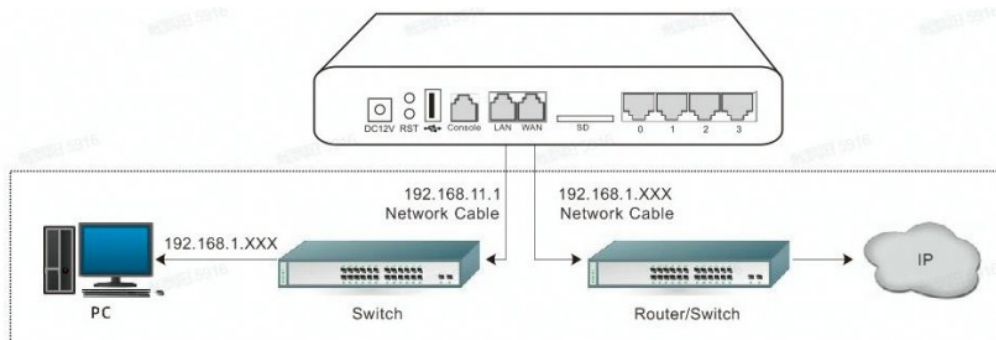
Router mode:



The different IP segment

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.

Bridge mode:



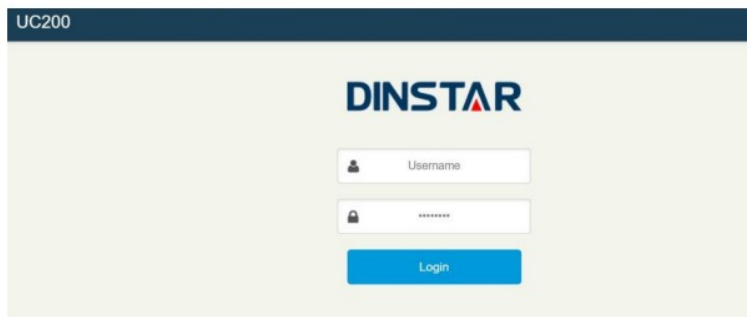
The same IP segment

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.

Login Web Management System

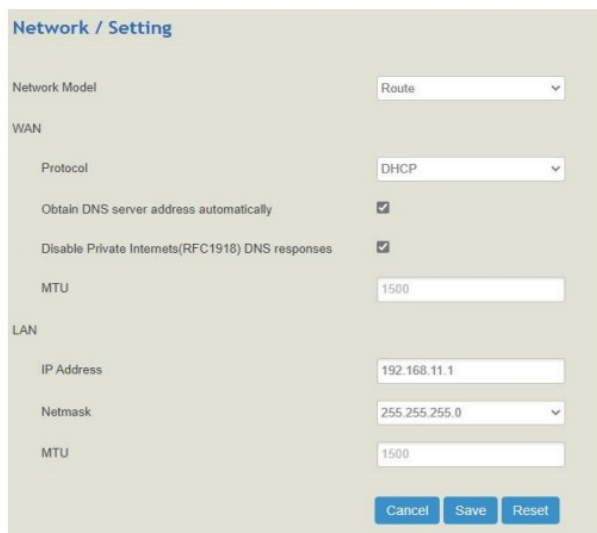
Open a web browser and enter the IP address of LAN port (the default IP is 192.168.11.1). You also can enter the IP address of WAN port, but it's required to modify the IP address of PC to make it at the same network segment

with that of WAN port. By default, the username is admin and the password is admin@123#.

The image shows the login page of a UC200 device. At the top, there is a dark blue header with the text "UC200" in white. Below the header, the "DINSTAR" logo is centered. Underneath the logo, there are two input fields: the first is labeled "Username" and the second is labeled "Password" with a masked password "*****". Below these fields is a blue "Login" button.

Modify Network Configuration

Please log into the device and click “network → settings” at the top menu bar to configure IP addresses of WAN and LAN port.

The image shows the "Network / Setting" configuration page. It is divided into two main sections: "WAN" and "LAN". In the "WAN" section, the "Network Model" is set to "Route". The "Protocol" is set to "DHCP". There are two checked checkboxes: "Obtain DNS server address automatically" and "Disable Private Internets(RFC1918) DNS responses". The "MTU" is set to "1500". In the "LAN" section, the "IP Address" is set to "192.168.11.1", the "Netmask" is set to "255.255.255.0", and the "MTU" is set to "1500". At the bottom right, there are three buttons: "Cancel", "Save", and "Reset".

The default network mode of 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.

After modification, you need to “apply” to make the settings take effect.

Create SIP Extensions

On the Extension → SIP interface, you can configure the SIP accounts registered in the UC200 by SIP clients (hereby UC200 is regarded as a SIP server).

Extension / SIP / Edit

Index	1
Name	1000
Extension	1000
Password	****
DID	
Register Source	Any
Call Waiting	Off
Do Not Disturb	Off
Call Forward Unconditional	Off
Call Forward Unregister	Off
Call Forward Busy	Off
Call Forward No Reply	Off
NAT	Off
Call In Filter	Black List
Call In Black List	< Add New ... >
Call Out Filter	White List
Call Out White List	< Add New ... >
SIP Profile	2-< wan_default >
Status	Enable

Cancel Save Reset

If the status of new added SIP account is “enabled”, it means that the UC200 accepts the registration of the extension.

If the status of the SIP account is “disabled”, it means that the UC200 rejected to register the extension. Up to 200 SIP accounts can be configured.

The registration status of SIP extension and SIP trunk can be checked on the “status → SIP” page.

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

SIP Trunk

SIP trunk can realize the connection between UC200 and IP PBX or SIP servers.

If UC200 is regarded as a terminal and intends to register to a server, you need to configure a SIP trunk connecting UC200 and the server, and then enable register for the SIP trunk.

If the UC200 intends to register to a server, you need to configure a SIP trunk connecting UC200 and the server.

Then enable register for the port and designate the SIP trunk to it.

Trunk / SIP / New

Index	2
Name	
Address	
Port	
Outbound Proxy	
Port	
Transport	UDP
Register	Off
From Header User Part	Caller's Number
From Header Display Name	Caller's Number
From Header Host	Local Address
Heartbeat	Off
AutoCLIP Profile	Off
SIP Profile	1-< lan_default >
Status	Enable

Cancel Save Reset

Configure outbound/inbound rule

On the Call Control → Route interface, you can configure routes for incoming calls and outgoing calls.

Call Control / Route / New

Priority: 32

Name:

Condition

Source: SIP Trunk / Telecom1

Number Profile: Off

Caller Number Prefix:

Called Number Prefix:

Time Profile: Any

Action

Manipulation: Off

Destination: SIP Extension / SIP Extensio

Failover Action:

Cancel Save Reset

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.

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 backreference, or an octal escape.
[]	Matches a single character that is contained within the bracket. For example, [123] 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] matches any character except 9.
.	Matches any single character except the newline character. For example, 3.4 matches 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 matches ac, abc, abbc, abbbc, and so on.
+	Indicates there is one or more of the preceding element. For example, ab+c matches abc, abbc, abbbc, and so on, but not ac.
/d	Mark any digit, equal to [0-9].
/D	Mark any character that is not a digit, equal to [^0-9].
/s	Mark any blank character such as a space or a tab.
/S	Mark any character that is not a blank character.

Example:

^0755 matches the phone number start with 0755

^0755\d{8,9} matches the phone number start with 0755 and following 8 or 9 digits number length

^0755|^8899|^0110 matches the phone numbers with starting digits of 0755, 8899 or 0110.

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;

More Details

This document only provides instructions for quick installation and basic configuration. For detailed configuration and parameter explanation, please check the User Manual, or ask for online technical support.

Frequently Asked Questions

(1) UC200 call priority (from high to low)

(2) Can the call between extensions be disabled?

(3) How many SIP extensions and concurrent calls can UC200 support?

UC200 supports 200 SIP extensions and 60 concurrent calls at max.

(4) After the port is configured to register to the remote SIP trunk, do I still need to configure outbound/inbound call routing?

No, after the port is configured and registered, there is already a route bound to the port and its registered SIP trunk. By default, and there is no need to configure it on the route configuration screen unless otherwise specifically requirement.

Thanks for Choosing Dinstar's VoIP Gateway

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

Tel: +86 755 61919966

Email: support@dinstar.com

Website: www.dinstar.com

Documents / Resources

	<p>DINSTAR UC200-2S20 VoIP Gateway [pdf] Installation Guide UC200-2S20 VoIP Gateway, UC200-2S20, VoIP Gateway, Gateway</p>
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References

- [D VoIP Gateway | IP PBX | IP Phone Session Border Controller SIP Intercom DINSTAR](#)
- [D VoIP Gateway | IP PBX | IP Phone Session Border Controller SIP Intercom DINSTAR](#)

- [User Manual](#)

[Manuals+](#), [Privacy Policy](#)

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