



Fanvil SIP Hotspot Simple and Practical Function Instructions

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SIP Hotspot Simple and Practical Function Instructions Manual

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Introduction

1.1. Overview

SIP hotspot is a simple and practical function. It is simple to configure, can realize the function of group ringing, and can expand the number of SIP accounts.

Set one phone A as a SIP hotspot, and other phones (B, C) as SIP hotspot clients. When someone calls phone A, phones A, B, and C will all ring, and any one of them will answer, and the other phones will stop ringing and cannot answer at the same time. When phone B or C makes a call, they are all dialed out with the SIP number registered by phone A. X210i can be used as a small PBX, with other Fanvil products (i10)) to realize the management of extension equipment, including restarting, upgrading, and other operations.

1.2. Applicable model

All phone models of Fanvil can support this (this article takes X7A as an example)

1.3. Instance

For example, in a home, the bedroom, the living room, and the bathroom are all equipped with a telephone. Then

you need to set up a different account for each phone, and with the SIP hotspot function, you only need to register one account to represent all the phones in the home, which is convenient for management, to achieve the effect of expanding the number of SIP accounts. When the SIP hotspot function is not used, if there is an incoming call and the phone number in the living room is dialed, only the phone in the living room will ring, and the phone in the bedroom and bathroom will not ring; when the SIP hotspot function is used, the phone in the bedroom, living room, and bathroom will ring. All phones will ring, and one of the phones will answer, and the other phones will stop ringing to achieve the effect of group ringing.

Operation Guide

2.1. SIP hotspot configuration

2.1.1. Registration number

The hotspot server supports registration numbers and issues extension numbers

The screenshot displays the 'Register Settings' for a specific line (Line 2@SIP1). The 'Line Status' is 'Registered'. The configuration is divided into two main sections: 'SIP Server 1' and 'SIP Server 2'. Each section includes fields for 'Server Address', 'Server Port', 'Transport Protocol', and 'Registration Expiration'. Additionally, there are fields for 'Proxy Server Address', 'Proxy Server Port', 'Proxy User', and 'Proxy Password' for SIP Server 1, and 'Backup Proxy Server Address' and 'Backup Proxy Server Port' for SIP Server 2. The 'Authentication User' and 'Authentication Password' fields are also present. The interface includes a 'Line' dropdown menu at the top left, a 'Register Settings >>' link, and a 'Line Status' indicator. The 'SIP Server 1' section is currently active, showing a 'Server Address' of '172.16.1.2' and a 'Server Port' of '5060'. The 'SIP Server 2' section is inactive, showing empty fields. The 'Transport Protocol' is set to 'UDP' for both servers. The 'Registration Expiration' is set to '3600 second(s)' for both servers. The 'Proxy Server Address' and 'Proxy Server Port' are set to '5060' for SIP Server 1. The 'Backup Proxy Server Address' and 'Backup Proxy Server Port' are set to '5060' for SIP Server 2. The 'Authentication User' and 'Authentication Password' fields are empty. The 'Server Name' field is empty. The 'Line' dropdown menu shows '2@SIP1' selected. The 'Register Settings >>' link is located below the 'Line' dropdown menu. The 'Line Status' is 'Registered'. The 'Activate' checkbox is checked. The 'Authentication User' and 'Authentication Password' fields are empty. The 'Server Name' field is empty. The 'SIP Server 1' section is active, showing a 'Server Address' of '172.16.1.2' and a 'Server Port' of '5060'. The 'SIP Server 2' section is inactive, showing empty fields. The 'Transport Protocol' is set to 'UDP' for both servers. The 'Registration Expiration' is set to '3600 second(s)' for both servers. The 'Proxy Server Address' and 'Proxy Server Port' are set to '5060' for SIP Server 1. The 'Backup Proxy Server Address' and 'Backup Proxy Server Port' are set to '5060' for SIP Server 2. The 'Authentication User' and 'Authentication Password' fields are empty. The 'Server Name' field is empty.

Line: 2@SIP1

Register Settings >>

Line Status: Registered

Activate: ☒

Username: 2

Authentication User:

Display name: 2

Authentication Password:

Realm:

Server Name:

SIP Server 1:

Server Address: 172.16.1.2

Server Port: 5060

Transport Protocol: UDP

Registration Expiration: 3600 second(s)

Proxy Server Address:

Proxy Server Port: 5060

Proxy User:

Proxy Password:

SIP Server 2:

Server Address:

Server Port: 5060

Transport Protocol: UDP

Registration Expiration: 3600 second(s)

Backup Proxy Server Address:

Backup Proxy Server Port: 5060

2.1.2 No registration number

(The phone can be used as a hotspot server except for X1, X2, X2C, X3S, X4 phones are not supported, other phones can be supported, such as X5U, X3SG, H5W, X7A , etc.)

The hotspot server supports the extension number without registering the number.

When the account is not registered, the number and server are required.

Line: 2@SIP1

Register Settings >>

Line Status: **Inactive**

Activate: ☐

Username: 2

Authentication User:

Display name: 2

Authentication Password: *****

Realm:

Server Name:

SIP Server 1:

Server Address: 172.16.1.2

Server Port: 5060

Transport Protocol: UDP

Registration Expiration: 3600 second(s)

Proxy Server Address:

Proxy Server Port: 5060

Proxy User:

Proxy Password:

SIP Server 2:

Server Address:

Server Port: 5060

Transport Protocol: UDP

Registration Expiration: 3600 second(s)

Backup Proxy Server Address:

Backup Proxy Server Port: 5060

Note: When the server dials an extension, it needs to enable the configuration “Call without registration

The location of the configuration item is as follow

Line: 2@SIP1

Register Settings >>

Basic Settings >>

Enable Auto Answering: ☐

Call Forward Unconditional: ☐

Call Forward on Busy: ☐

Call Forward on No Answer: ☐

Call Forward Delay for No Answer: 5 (0~120)second(s)

Conference Type: Local

Subscribe For Voice Message: ☐

Voice Message Subscribe Period: 3600 (60~999999)second(s)

Hotline Delay: 0 (0~9)second(s)

Dial Without Registered: ☒

DTMF Type: AUTO

Request With Port: ☒

Use STUN: ☐

Auto Answering Delay: 5 (0~120)second(s)

Call Forward Number for Unconditional:

Call Forward Number for Busy:

Call Forward Number for No Answer:

Transfer Timeout: 0 second(s)

Server Conference Number:

Voice Message Number:

Enable Hotline: ☐

Hotline Number:

Enable Missed Call Log: ☒

DTMF SIP INFO Mode: Send 10/11

Enable DND: ☐

Use VPN: ☒

2.1.3 Take the X7A phone as a hotspot as an example to set up the SIP hotspot

1. Enable hotspot: Set the “Enable hotspot” option in the SIP hotspot configuration item to enabled.
2. Mode: Select “hotspot”, indicating that the phone exists as a SIP hotspot.
3. Monitoring type: You can select broadcast or multicast as the monitoring type. If you want to limit the broadcast packets in the network, you can choose multicast. The monitoring types of the server and the client must be the same. For example, when the client’s phone is selected as multicast, the phone as the SIP hotspot server must also be configured as multicast.
4. Monitoring address: When the monitoring type is multicast, the multicast communication address is used by the client and server. If you use to broadcast, you don’t need to configure this address, the system will use the

broadcast address of the phone's wan port IP for communication by default.

5. Local port: fill in the custom hotspot communication port. The server and client ports need to be consistent.
6. **Name:** Fill in the name of the SIP hotspot.
7. Outside line ringing mode: ALL: Both the extension and the host ring; Extension: Only the extension rings; Host: Only the host rings.
8. Line set: Set whether to associate and enable the SIP hotspot function on the corresponding SIP line.

The screenshot shows a web interface for configuring SIP Hotspot settings. On the left is a red sidebar with a menu containing: System, Network, Line (highlighted), Phone settings, Phonebook, Call logs, Function Key, and Application. The top navigation bar has tabs: SIP, SIP Hotspot (active), Dial Plan, Action Plan, Basic Settings, and RTPCP-XR. The main content area is titled 'No Registration' and contains two sections: 'SIP Hotspot Settings' and 'Line Settings'. The 'SIP Hotspot Settings' section includes: 'Enable Hotspot' (dropdown menu set to 'Enabled'), 'Mode' (dropdown menu set to 'Client'), 'Monitor Type' (dropdown menu set to 'Multicast'), 'Monitor Address' (text input field with '224.0.2.0'), 'Local Port' (text input field with '16360'), and 'Name' (text input field with 'SIP Hotspot'). Each of these fields has a help icon (question mark) to its right. The 'Line Settings' section lists five lines (Line 1 to Line 5), each with an 'Enabled' dropdown menu.

SIP Hotspot Settings	
Enable Hotspot:	Enabled
Mode:	Client
Monitor Type:	Multicast
Monitor Address:	224.0.2.0
Local Port:	16360
Name:	SIP Hotspot

Line Settings	
Line 1:	Enabled
Line 2:	Enabled
Line 3:	Enabled
Line 4:	Enabled
Line 5:	Enabled

Line Settings

Line 1:	Enabled ▼
Line 2:	Enabled ▼
Line 3:	Enabled ▼
Line 4:	Enabled ▼
Line 5:	Enabled ▼
Line 6:	Enabled ▼
Line 7:	Enabled ▼
Line 8:	Enabled ▼
Line 9:	Enabled ▼
Line 10:	Enabled ▼
Line 11:	Enabled ▼
Line 12:	Enabled ▼
Line 13:	Enabled ▼
Line 14:	Enabled ▼
Line 15:	Enabled ▼
Line 16:	Enabled ▼
Line 17:	Enabled ▼
Line 18:	Enabled ▼

When a SIP hotspot client is connected, the access device list will display the device currently connected to the SIP hotspot and the corresponding alias (extension number).

Device Table			
IP	MAC	Alias	Line
192.168.6.100	0c:38:3e:12:da:5d	1	0

Note: For details of X210i as a hotspot server, please refer to **2.2 X210i Hotspot Server Settings**

X210i hotspot server settings

2.2.1.Server settings

When X210i is used as a hotspot server, in addition to the above server settings, you can also set the extension prefix. The extension prefix is the prefix used when the extension account is issued.

Extension prefix:

- Each line can enable/disable the use of extension prefix
- After setting the extension prefix, the extension number is the prefix + the assigned extension number. For example, the prefix is 8, the assigned extension number is 001, and the actual extension number is 8001

Line Settings

Line 1:	Enabled ▾	Ext Prefix 1:	<input type="text"/>
Line 2:	Enabled ▾	Ext Prefix 2:	<input type="text"/>
Line 3:	Enabled ▾	Ext Prefix 3:	<input type="text"/>
Line 4:	Enabled ▾	Ext Prefix 4:	<input type="text"/>
Line 5:	Enabled ▾	Ext Prefix 5:	<input type="text"/>
Line 6:	Enabled ▾	Ext Prefix 6:	<input type="text"/>
Line 7:	Enabled ▾	Ext Prefix 7:	<input type="text"/>
Line 8:	Enabled ▾	Ext Prefix 8:	<input type="text"/>
Line 9:	Enabled ▾	Ext Prefix 9:	<input type="text"/>
Line 10:	Enabled ▾	Ext Prefix 10:	<input type="text"/>
Line 11:	Enabled ▾	Ext Prefix 11:	<input type="text"/>
Line 12:	Enabled ▾	Ext Prefix 12:	<input type="text"/>
Line 13:	Enabled ▾	Ext Prefix 13:	<input type="text"/>
Line 14:	Enabled ▾	Ext Prefix 14:	<input type="text"/>
Line 15:	Enabled ▾	Ext Prefix 15:	<input type="text"/>
Line 16:	Enabled ▾	Ext Prefix 16:	<input type="text"/>
Line 17:	Enabled ▾	Ext Prefix 17:	<input type="text"/>
Line 18:	Enabled ▾	Ext Prefix 18:	<input type="text"/>
Line 19:	Enabled ▾	Ext Prefix 19:	<input type="text"/>
Line 20:	Enabled ▾	Ext Prefix 20:	<input type="text"/>

2.2.2. Hotspot extension management

Note: When X210i is used as a hotspot server, you need to manually move the unmanaged extension information to the managed extension information

The hotspot extension management interface can perform management operations on the extension device. After adding it to the managed device, you can restart and upgrade the device; after the device is added to the group, dial the group number and the devices in the group will ring.

Enable management mode: 0 non-management mode, which allows any device to access and use; 1 management mode, which allows only configured devices to access and use Unmanaged extension information:

UnManaged Extension Information								Delete Move To Managed	
<input type="checkbox"/> Index	Mac	Model	SoftVersion	Ip	Ext	Status	Registration Number		
<input type="checkbox"/> 1	00:a8:59:01:02:09	X7	1.12.3	172.16.12.118	1	OnLine			

The hotspot server will issue an account to the device with the hotspot client enabled, and it will be displayed in the unmanaged extension column.

- Mac: Mac address of the connected device
- Model: connected device model information
- Software version: the software version number of the connected device
- IP: The IP address of the connected device
- Ext: the extension number assigned by the connected device
- Status: The connected device is currently online or offline
- Registration number: display host registration number information

- Delete: You can delete the device
- Move to managed: After moving the device to manage, you can manage the device

Managed extension information:

You can add devices that are not in the managed extension list to the managed extension list. After adding, you can restart the device,

Managed Extension Information											
<div> Add Delete ReProvision Reboot Add to Group Move To UnManaged </div>											
<input type="checkbox"/>	Index	Extension Name	Mac	Model	SoftVersion	Ip	Ext	Group	Status	Registration Number	Edit
<input type="checkbox"/>	1		00:a8:59:01:02:09	X7	1.12.3	172.16.12.118	1		OnLine	2;	Edit

Upgrade, and add to the group and other operations.

- Extension name: the name of the management device
- Mac: Mac address of the management device
- Model: the model name of the management device
- Software version: the software version number of the management device
- IP: IP address of the management device
- Ext: the extension number assigned by the management device
- Group: Manage the group that the device joins
- Status: whether the management device is currently online or offline
- Registration number: display host registration number information
- Edit: edit the name, Mac address, extension number, and a group of the management device
- New: You can manually add management devices, including name, Mac address (required), extension number, group information
- Delete: delete the management device
- Upgrade: upgrade management equipment
- Restart: Restart the management device
- Add to the group: add the device to a group
- Move to unmanaged: the device cannot be managed after moving Hotspot group information:

Hotspot grouping, after adding the group successfully, dial the group number, the numbers added to the group will ring

- Name: the name of the group
- Number: group number, dial this number, all numbers in the group ring
- Edit: edit the grouping information
- New: add a new group
- Delete: delete a group

2.2.3. Extension Upgrade

To upgrade the management device, you need to enter the URL of the upgrade server and click OK to go to the server to download the version to upgrade.

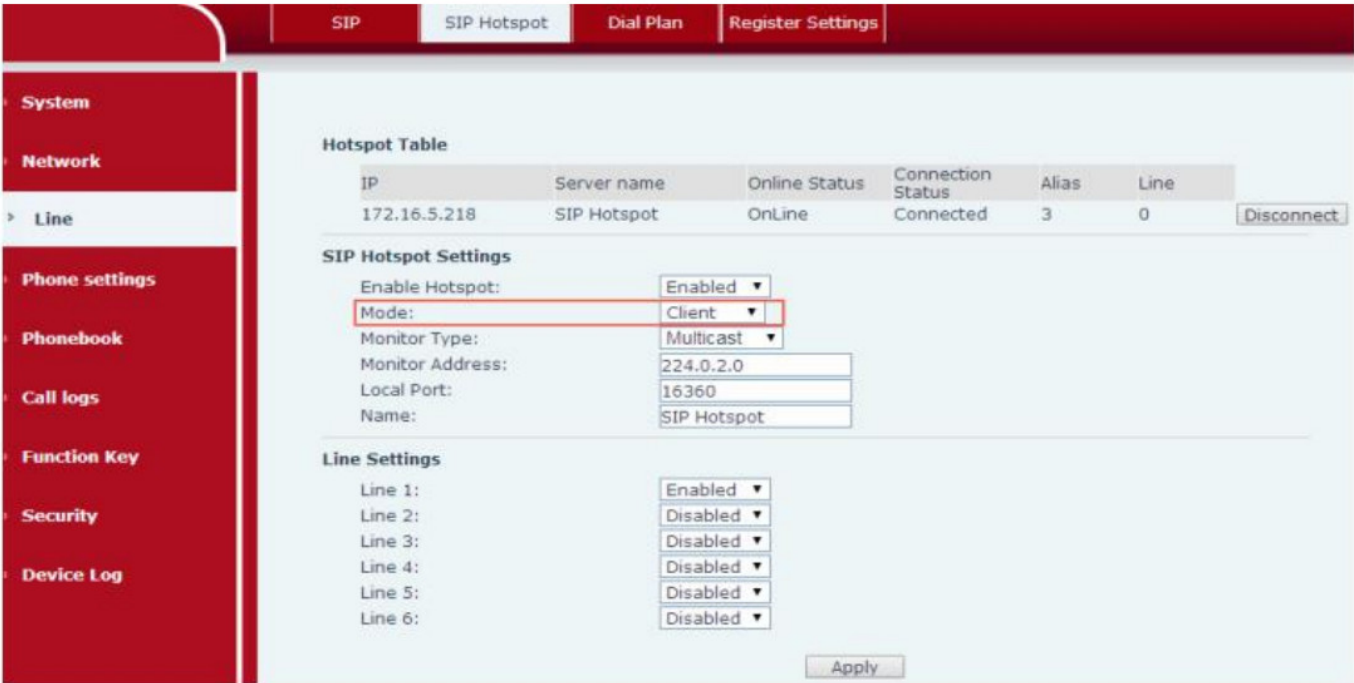
The upgrade server URL is shown in the figure below:



<http://172.16.7.29:8080/1.txt>

2.2.4. Hotspot client settings

Taking the X7a phone as an example as a SIP hotspot client, there is no need to set up a SIP account. After the phone is enabled, it will be automatically obtained and configured automatically. Just change the mode to “Client”, and the other option setting methods are consistent with the hotspot.



The server address is the SIP hotspot address, and the display name is automatically distinguished, as shown in the figure below:

SIP

SIP Hotspot

Dial Plan

Register Settings

System

Network

Line

Phone settings

Phonebook

Call logs

Function Key

Security

Device Log

Line 4212_3

Register Settings >>

Line Status: Registered

Server Address: 172.16.5.218

Server Port: 5060

Authentication User:

Authentication Password:

Username: 4212

Display name: 4212_3

Activate: ☒

Realm: 1.hotspot

SIP Proxy Server Address: 172.16.5.218

Proxy Server Port: 5060

Proxy User:

Proxy Password:

Backup Proxy Server Address:

Backup Proxy Server Port: 5060

Server Name:

Basic Settings >>

Codecs Settings >>

Advanced Settings >>

SIP Global Settings >>

Apply

The hotspot list is displayed as the hotspots connected to the phone. The IP address shows that the hotspot IP is 172.18.7.10. If you want to call the phone as a SIP hotspot, you only need to call 0. This machine can choose whether to connect to a hotspot phone. If not, click the disconnect button on the right side of the hotspot list. As shown below:

SIP

SIP Hotspot

Dial Plan

Register Settings

System

Network

Line

Phone settings

Phonebook

Call logs

Function Key

Security

Device Log

Hotspot Table

IP	Server name	Online Status	Connection Status	Alias	Line	
172.16.5.218	SIP Hotspot	OnLine	Connected	3	0	Disconnect

SIP Hotspot Settings

Enable Hotspot: Enabled

Mode: Client

Monitor Type: Multicast

Monitor Address: 224.0.2.0

Local Port: 16360

Name: SIP Hotspot

Line Settings

Line 1: Enabled

Line 2: Disabled

Line 3: Disabled

Line 4: Disabled

Line 5: Disabled

Line 6: Disabled

Apply

When the hotspot option in the SIP hotspot settings is changed to “Disabled” after use, the line registration information of the SIP hotspot client connected to the hotspot will be cleared, and the line registration information will not be cleared when the phone as a SIP hotspot is disabled.

SIP **SIP Hotspot** Dial Plan Register Settings

System
Network
Line
Phone settings
Phonebook
Call logs
Function Key
Security
Device Log

No Registration

SIP Hotspot Settings

Enable Hotspot: Disabled ▼

Mode: Client ▼

Monitor Type: Multicast ▼

Monitor Address: 224.0.2.0

Local Port: 16360

Name: SIP Hotspot

Line Settings

Line 1: Enabled ▼

Line 2: Disabled ▼

Line 3: Disabled ▼

Line 4: Disabled ▼

Line 5: Disabled ▼

Line 6: Disabled ▼

Apply

After deactivation, the SIP hotspot client line registration information will be cleared. As shown below:

SIP **SIP Hotspot** Dial Plan Register Settings

System
Network
Line
Phone settings
Phonebook
Call logs
Function Key
Security
Device Log

Line: SIP1 ▼

Register Settings >>

Line Status: Inactive

Server Address:

Server Port: 5060

Authentication User:

Authentication Password:

Username:

Display name:

Activate: ☐

Realm:

SIP Proxy Server Address:

Proxy Server Port: 5060

Proxy User:

Proxy Password:

Backup Proxy Server Address:

Backup Proxy Server Port: 5060

Server Name:

Basic Settings >>

Codecs Settings >>

Advanced Settings >>

SIP Global Settings >>

Apply

Notice:

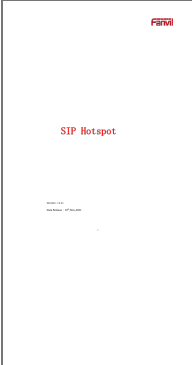
If multiple SIP hotspots are enabled in the network at the same time, you need to separate the hotspot phone monitoring address segment, and the monitoring address of the SIP hotspot client phone must be the same as the hotspot monitoring address you want to connect to. Both hotspots and hotspot clients can dial external line numbers to call external lines. The hotspot supports intra-group transfer operations, and the hotspot client only supports basic calls.

Call operation

- 1. Set the extension prefix to call between extensions:
Use extension numbers to dial each other between extensions, such as host number 8000, extension number: 8001-8050
The host dials the extension, 8000 calls 8001
The extension dials the host, 8001 calls 8000
Call each other between extensions, 8001 calls 8002
- 2. Call between extensions without setting the extension prefix:
the host dials the extension, 0 calls 1
- 3. Outside call host/extension:
The external number directly calls the host number. Both the extension and the host will ring. The extension and the host can choose to answer. When one party answers, the others hang up and return to standby.
- 4. Master/extension call outside line:
When the master/extension calls an outside line, the number of the outside line needs to be called.

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Documents / Resources

	Fanvil SIP Hotspot Simple and Practical Function [pdf] Instructions SIP Hotspot, Simple and Practical Function, Practical Function, Simple Function, Function
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References

- [Fanvil Technology Co., Ltd](#)