



IP0051 – SIP/IAX based VoIP Phone

User Guide v. 1.1

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1. Technical Parameter and Hardware Specifications

1.1 Technical Parameter

Support Protocol:

Support SIP (RFC3261, RFC2543)

Support IAX2

Support Voice codec: G711A/u, G729, and G723.1

Support G.168 echo cancellation standard, compliant 96ms with speaker mode.

Support Jitter Buffer, VAD, CNG, SIP Domain name register, point-to-point Call

Support RTP and RTCP voice communication

Support the Inbound/Outbound transmission; SIP info, DTMF Relay, RFC2833

Support many countries' standard ring

NAT transversal: Support STUN, CITRON, AVS Mode

Support SIP domain, SIPAuthentication (none, basic, MD5), Domain Name parse

Support 5 SIP servers and 1 IAX2 account synchronously, can call in and out by either proxy

Support SIP application, including SIP call forward/transfer/holding/waiting

Network Features:

Support two models: Bridge and Router, integrate two ports router function.

Support basic NAT and NAPT.

Support PPPoE for xDSL, and support off hook auto dial.

Support DHCP Client for WAN;

Support DHCP server for LAN;

Support DNS relay on LAN port and can provide DNS service for LAN Network equipment.

Support DNS SRV on WAN port

Support NTP Client, can auto-obtain time from internet

Use advanced DSP tech to insure high quality voice

Use advanced jitter buffer tech to prevent the delaying and losing for package information

Support Network Tools, including ping, trace route, and telnet client.

Support three modes to configure WAN port IP, they are: static, DHCP, and PPPoE.

Provide firewall control for small LAN.

Provide optional communication priority level for small LAN.

Support VPN—L2TP and Openvpn(SSL) protocol

Support Secondly Layer QoS (802.1p)

Advanced Function:

Support headset

Support 128*64 LCD

Support Power over Ethernet (POE) function

3 Interactive soft key, with more humanized operating prompt.

Support 5 SIP servers synchronously.

Support local voice record, message and server message.

Support sending and receiving short message

Support message wait indication.

Support user defined ring tone.

Support L2TP client.

Support call pickup, join call, auto-redial.

Support 5 programmable keys, 5 PSTN keys and 5 SIP keys, and it can be connected with the expansion board

which can display more numbers' online status.

Support presence, BLF, Push to talk

Support dial switchboard and extension number at one time, directly get through the ext. later.

Support phone book, and can set different rings according to different incoming callers.

Call waiting, call transfer, three ways call, and multi-call forward
Caller ID display, ban calling out, setting no-disturb, dial number
automatically while picking up the telephone,
set VIP numbers.
Set the black name list and confine numbers
Support point-point calling directly.
Support flexible methods of receiving numbers.
Support silence suppression and silence detection.
Support noise background simulation.
Support echoes suppression and auto gain.

1.2 Hardware Specifications

Item IP0051

Standard AC Adapter Input:100-240V Output:5V 1.5A or PoE(802.3af, optional)
Interface WAN 10/100Base- T RJ-45 for LAN
LAN 10/100Base- T RJ-45 for PC
LCD size 128 * 64 full-dot matrix LCD
Operation Temperature 0~40°C
Operation Humidity 10~65%
Main Chipset MIPS32(150M), DSP(100M)
SDRAM 16M
Flash 4M

2 Packing

Please check whether the packing contains the following or not.

The basic unit with handset
One cable
Standard 5V/1.5A power supply
IP0051 extension board (optional for wholesales)

3 Safety Information

You have two options for providing the IP0051 with power:

- **Power over the Ethernet (IEE 802.3af compatible)**
- **An external power supply (5V/1.5A)**

Warn: Non-factory power supply may cause the phone damage.

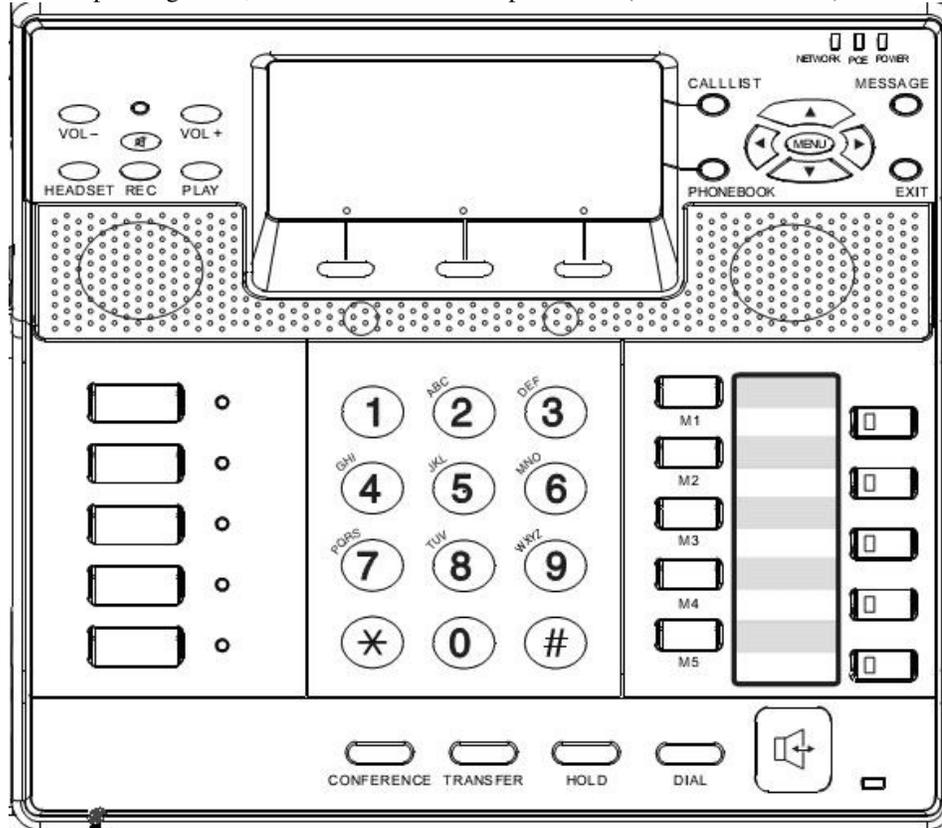
4 Installation

- First connect one end of the handset cable to the handset, and connect the other end to RJ11 port on the phone's left and bottom side.
- Plug the Ethernet (network) cable into the RJ45 connector labeled **WAN**, and the other end is connected with internet or LAN.
- If you want to use labeled **LAN** port, use another Ethernet cable to connect PC with the phone's LAN port.
- If you are using an external power supply, get the standard 5V/1.5A power supply and connect it to the phone's power port; If you are using POE, just connect the Ethernet cable to the WAN port, and the other end of cable is connected with the POE device.
- If you want to use a headset, connect the earphone(excluded in our packing) with the phone. Please be sure the quality of the headset or the voice quality may be badly affected.

5 Keypad and LED Description

5.1 Keypad description

The numeric keypad with the keys 0 to 9, *, and # is used to enter digits and letters. Depending on the operating mode, different actions can be performed (see the table below):



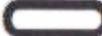
5.1.1 Number Key Description

Key	Digits	Lower case	Upper case
	1	1 . - ? ! / : @ ' ' () + %	1 . - ? ! / : @ ' ' () + %
	2	abc2	ABC2
	3	def3	DEF3
	4	ghi4	GHI4
	5	jkl5	JKL5

	6	mno6	MNO6
	7	pqrs7	PQRS7
	8	tuv8	TUV8
	9	wxyz9	WXYZ9
	*	“*” “ ” Eg: 192*168*1*110	“*” “ ” Eg: 192*168*1*110
	0	(SPACE)_0	(SPACE)_0
	#	End the number and send; # can also be used to change and switch input method(ABC, abc,123)	End the number and send; # can also be used to change and switch input method(ABC, abc,123)

5.1.2 Function Key Description

KEY	Description
	Adjust volume (lower/higher); in standby mode for ring tone volume adjustment, in hands-free mode for speaker volume and in off-hook mode for headphone volume adjustment.
	Mute Microphone (on/off); When Mute function is on, LED light turns red.
	Press this key to answer the call by headset.
	Server's record function. In the call status, press this button and the phone will send a serial of pre-configured DTMF to registering server. Then server begin to record. Press this button again, server will turn off the record. It needs server's support.
	When the phone get a new voice message, the MESSAGE light will flashes. Users can press PLAY button and the phone will dial the special number to play the message automatically.
	Callist to display the Received calls, Missed calls, Dialed calls
	Phonebook
	Main menu
	In stand-by mode, press this key to check Missed calls.

KEY	Description
	Press this key to check phone's IP address in standby mode.
	Check dialed call record in standby mode; adjust the volume in off-hook mode and move the cursor to the left side in input mode.
	Press this key to check SIP1-SIP5 registration status in standby mode, adjust volume in off-hook mode and move the cursor to the right side in input mode.
MESSAGE 	LED for MWI (Message waiting indication) ; When the phone get a new voice message,the MESSAGE light will flashes.
EXIT 	RLS to home state
CONFERENCE 	Establish 3-way conference.
TRANSFER 	In call status, press TRANSFER+number+# can make Blind transfer; Press TRANSFER+number+Send(softkey2) can make Attend transfer.
HOLD 	Call hold / unhold; In call status, firstly press HOLD to hold the call; and press HOLD again to unhold the call.
DIAL 	Press this button to send the number; In standby mode to Redial.
	Speaker; In standby mode, press this button to enter hands-free mode; When there comes the call, press this key to answer the call in hands-free mode.
	Dynamic group function keys; In different situations, 3 softkeys including functions such as enter, save, quit, del , edit, option, send, redial, split, divert and so on.
	F1-F5; User-defined programmable keys; They default as LINE1-LINE5. Right side LED color indicates different status of LINE1to LINE5.

5.1.3 Softkey Description

Softkey is especially designed to improve the phone's convenient and friendly operations. For simple prompt keys, users can check it easily; Let's mainly introduce the function keys below:

Function keys	Descriptions
SMS	In standby mode, press softkey1 to check and send the message.
SDial	In standby mode, press softkey2 to edit and check the speed dial config.
DND	In standby mode, press softkey3 to enable/disable DND(don't disturb).
Divert	When there comes the call, press this key and input the number you want to transfer then the call will be transferred directly.
Reject	Press this key to reject the incoming call.
Reset	When LINE1 is in call hold status, press this key to redial the LINE2 so that LINE1 can be holded and user can dial the LINE2 again.
Retrv	When LINE1 is in call hold status, press this key to quit the call hold and turn back to LINE1 talk status.

Function keys	Descriptions
Conf	Press this key to make 3-way conference call; this key functions the same as CONFERENCE on the keypad.
Switch	Press this key to switch the line you want to hold or unhold.
Split	In 3-way conference state, press Split to end it, but can be available to keep the communication with the other two separately.
End	In 3-way conference state, press End to end all communications with the other two at the same time.
Option	While checking phonebook and call record, press Option to enjoy further more operations.

5.2 LED status display explanations

- MUTE LED: when MUTE is on, LED displays red if there is incoming call or in the call status.
- Network LED: LED is dark means no connection on WAN port; LED flashes green light means there exist network flow.
- POE LED: When Power over Ethernet function turns on, LED is bright with light.
- Power LED: It brights means power supply is available.
- Memory LED: It can display different color and tell the presence status. Red color means the ext. is offline, green means the ext. is free and available, while the flashing green light means the ext. is busy or in the call status. More info please check 7.4.2 Memory Key.
- Message LED: It will flashes when there is voice mail from the server.
- LINE LED: Failed registration, LED is green and flashes occasionally. When comes the call and it rings, LED will frequently flash green light. In HOLD mode, LED will frequently flash green light. In call status, LED is on with green light.

6 Configuration via Keypad

6.1 Network config

The phone defaults to obtain IP address via DHCP.

If DHCP mode isn't supported from your network environment, please config static IP address according to the following instructions:

Press MENU key and select "Advanced" as the picture shows.

Enter password 123 and select "Network". Then you can select the net mode according your network connection model. Let's take Static IP config for an example.

```

3 Screen Set
4 Ringer Set
5 Volume Control
6 Call Service
7 Advanced
Next  Enter  Quit

```

```

Enter Password
*****
Del  Enter  Quit

```

```

1 Set Password
2 SIP Set
3 IAX2 Set
4 Network
5 L2TP
Next Enter Quit
    
```

```

1 Net Mode
2 Static Set
Next Enter Quit
    
```

```

Net Mode
<> DHCP
Edit Quit
    
```

```

Net Mode
<> Static
Save Quit
    
```



Press  to select DHCP or Static mode.

Select "Static", and you can config IP address as the following instructions shows:

```

1 Net Mode
2 Static Set
Next Enter Quit
    
```

```

1 IP
2 Netmask
3 Gateway
4 DNS
Next Enter Quit
    
```

```

IP
192.168.1.179
Edit Quit
    
```

```

New Parameter
192.168.1.179_
Del Save Quit
    
```

Press "**Edit**" key to edit IP address. You can use left/right key to move the cursor and insert the character to input IP address. Never forget to press "**Save**" key to finish and save the config. Config Netmask, Default Gateway and DNS by following the aboved steps. After the network is configured, we now begin to config VoIP account.

6.2 VOIP config

```

1 Set Password
2 SIP Set
3 IAX2 Set
4 Network
5 L2TP
-----
Next Enter Quit
    
```

```

1 SIP1
2 SIP2
3 SIP3
4 SIP4
5 SIP5
-----
Next Enter Quit
    
```

```

1 SIP Server
2 SIP Server Port
3 SIP Number
4 SIP Account
5 SIP Password
-----
Next Enter Quit
    
```

```

New Parameter
register.server.com_
-----
Del Save Quit
    
```

As the steps shows above, config SIP Number, SIP Account and SIP Password accordingly.

```

1 SIP Server Port
2 SIP Number
3 SIP Account
4 SIP Password
5 SIP Register
-----
Next Enter Quit
    
```

```

SIP Register
[] ON [X] OFF
-----
Edit Quit
    
```

```

SIP Register
[X] ON [] OFF
-----
Save Quit
    
```

Press **“Edit”** select **“ON”** to submit SIP registration via



key. When it is registered successfully, you may

check each LINE’s registration status via



key.

7 Configuration via WEB

Press “DOWN” key to check the phone’s IP address, and input the IP address on the browser bar.

Eg:

<http://192.168.10.1>

7.1 Network Configuration

The phone defaults to obtain IP address via DHCP. If there is a DHCP server in your LAN, the phone’s WAN port can auto-obtain an IP address, not any network config is needed.

If your LAN router’s DHCP function isn’t open, then you will have to config static IP address on the phone’s WAN port.

The screenshot displays the web configuration interface for the IP phone. On the left, a navigation menu includes options like 'preference', 'Current State', 'Network Setting' (highlighted), 'SIP Setting', 'IAX2 Setting', 'Function Key', 'Advanced Setting', 'System Manage', 'Update', 'Call Record', and 'Reboot & Logout'. The main interface is divided into sections: 'WAN Config' (selected), 'LAN Config', and 'VLAN/QoS'. Under 'WAN Config', there are sub-sections for 'Net Service' and 'DHCP Setting'. The 'WAN Status' section shows the following information:

WAN Status	
Active IP	192.168.1.108
Current Netmask	255.255.255.0
MAC Address	00:1c:68:01:12:e6
Current Gateway	192.168.1.100
Mac Authenticating Code	1

The 'WAN Setting' section shows three radio button options: 'Static' (selected), 'DHCP', and 'PPPOE'. Below these, there is a checked checkbox for 'Obtain DNS server automatically'. The configuration fields are as follows:

Static IP Address	192.168.1.179
Netmask	255.255.255.0
Gateway	192.168.1.1
DNS Domain	
Primary DNS	202.96.134.133

After finishing IP address config, you may login to the phone by telnet, then ping your registration server’s address. Eg: Ping regiser.server.com, if ping works, it suggests your network config is correct.

7.2 SIP Configuration

SIP Line Select
1

Basic Setting

Regist status

Server Name

Server Address

Server Port

Account/User Name

Password

Phone Number

Display Name

Proxy Server Address

Proxy Server Port

Proxy Username

Proxy Password

Domain Realm

Enable Register

- > [preference](#)
- > [Current State](#)
- > [Network Setting](#)
- > [SIP Setting](#)
- > [IAX2 Setting](#)
- > [Function Key](#)
- > [Advanced Setting](#)
- > [System Manage](#)
- > [Update](#)
- > [Call Record](#)
- > [Reboot & Logout](#)

SIP Line Select
1

Advanced SIP Setting

Register Expire Time seconds

NAT keep Alive Interval seconds

Subscribe Expire Time seconds

User Agent

Signal Key

Media Key

Conference Number

Hotline Number

Forward Phone Number

SIP Config

Field name	Explanation
<div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center; margin: 0;">SIP Line Select</p> <div style="display: flex; justify-content: space-between; align-items: center;"> 1 ▾ Load </div> </div>	
Select the SIP account you want to config, SIP1-SIP5 are optional. Then click 【Load】 and switch to the corresponding account config.	
Register Status	It displays SIP registration status. “Registered” means successful registration, or it will display “Unregistered”. “Unapplied” suggests the register status display function isn’t applied.
Server Name	Input server name
Server Address	SIP registering server address, domain name is supported
Server Port	Input SIP registering server port
Account Name	Input SIP account’s name
Password	Input SIP account’s password
Phone Number	Input SIP server’s phone number. Blank means not to apply for registration.
Display Name	Input the caller’s name you want in the callee’s display, English alphabets input supported.
Domain Realm	Input SIP domain realm. If the server doesn’t request SIP terminal’s local domain as appointed domain, then the local domain can be the same as SIP server. Usually, to simplify user’s input, clients are not necessary to input local domain. Because system will be filled with domain realm in the Register server addr place.
Enable Register	Select enable/disable register
Register Expire Time	Config SIP server register expire time, it defaults as 60s. It can be modified on the phone according to server’s time request and register again.
DTMF Mode	Total three DTMF modes: - DTMF_RELAY - DTMF_RFC2833 - DTMF_SIP_INFO。 Different SP may provide different mode.
Presence Mode	IP0051 phone supports two standard format Presence definition as follows: Special and Standard. Default for the Standard. You need to restart to activate the phone after revising the mode.
Enable Subscribe	After registered successfully, you can subscribe to others presence status or voice messages etc.

7.3 IAX2 Registration

IAX2 Setting

IAX2 setting

Register Status **Registered**

IAX2 Server Addr

IAX2 Server Port

Account Name

Account Password

Phone Number

Local Port

Voice Mail Number

Voice Mail Text

Echo Test Number

Echo Test Text

Refresh Time **Seconds**

Enable Register

Enable G.729

IAX2 Config

Field name	Explanation
Register Status	It displays SIP registration status. "Registered" means successful registration, or it will display "Unregistered".
IAX2 Server Addr	Config IAX2 server address, can be in form of domain name.
IAX2 Server Port	Config IAX2 server port;
Account Name	Config IAX2 authenticated account name;
Password	Config IAX2 authenticated account password;
Phone Number	Config IAX2 phone number;
Local Port	Config monitoring port of local IAX2;
Echo Test Text	Config echo test text.
Refresh Time	IAX2 registration refresh time, which is in the "second" unit. It is suggested that users make a choice between 60-3600;
Enable Register	Enable/disable registering to the server;
Enable G.729	Enable/disable G.729; the phone supports G.729 codec.If you use the idefisk (G.729 non-supported), then calling idefisk would result in your PC corruption;

7.4 Function Key

IP0051 phone's Function key supports LINE, Memory Key, Key Event as well as 4 DTMF models.

LINE: If you config the function key as SIP LINE via web, then you can select which SIP LINE to call, only successfully registered SIP Line can be selected and available.

- Memory Key: this mode can support Presence, BLF, Push to talk, MWI and other functions.
- Key Event: the user can set shortcut keys as their preferences;
- DTMF: set the number sent by DTMF;

Specific settings are as follows:

7.4.1 LINE

F 1	Line	SIP1:Line1
F 2	Line	SIP2:Line2
F 3	Line	SIP3:Line3
F 4	Line	SIP4:Line4
F 5	Line	SIP5:Line5

7.4.2 Memory Key

BLF, presence, MWI and speed dial functions can be achieved by memory key.

- /b Busy Lamp Field: based on the asterisk platform, can be used to check the phone status(idle, ring, busy), so that switchboard and phone operator to know other phones' status and decide to proceed the call or not.

F 6	Memory Key	626@sip1/b
-----	------------	------------

You can config BLF function as the picture shows above: 300 is used to check the other number; @1 means SIP1 is used or you can config @2(SIP2). Other lines followed by analogy; If not, that is 300/b, then take the default SIP1 line; /b means to enable BLF function. At this moment, the device will check others' status every 60s. Idle state, LED out; ring state, LED flash red; in call or unavailable state, busy state, LED long red light.

- /m MWI (message waiting indication) : correspondingly, the key number is the number of voicemails.

F 7	Memory Key	8008@sip1/m
-----	------------	-------------

You can config MWI function as the picture shows above: 8008 is mailbox number; @1 means SIP1 is used or you can config @2(SIP2). Other lines followed by analogy; If not, that is 8008/m, then take the default SIP1 line; /m means to enable MWI function.

If there is a new voicemail, led flashing will prompt a new message, after finishing listening to the message, server will send the current message to the phone. Receiving new MWI, led adjusts to eliminate, said no new voicemail notification.

- /p Presence: that is, the phone can check the corresponding phone's current state.

F 8	Memory Key ▾	618@sip2/p
-----	--------------	------------

You can config Presence function as the picture shows above: 618 is the number you want to check; @2 means SIP2 is used or you can config @3(SIP3). Other lines followed by analogy; If not, that is 618/p, then take the default SIP1 line; /p means to enable Presence function. Press this key, to check the number's phone status(on, off, fail etc) on the screen.

Online and idle state, LED display long green light; Offline state, LED display long red light; ringing or busy state, LED flash green light. If you are using special IP PBX, please select Presence Mode--"special" on SIP-SIP webpage. If you are using Asterisk server, please select "standard".

You need to restart the phone after revising the presence mode.

- /f speed dial: In standby mode, press the key then the phone calls will be put through directly to the speed-dial number.

F 10	Memory Key ▾	618@1/f
------	--------------	---------

- /i PUSH TO TALK: In standby mode, keep pressing this key to make outgoing call and the call will be answered automatically; let go the key to hang up the call.

F 9	Memory Key ▾	626@2/i
-----	--------------	---------

You can config push to talk function as the picture shows above: 626 is the other's number; /i means push to talk function is enable.

In standby mode and press this key to call 626, the call will be answered automatically.

Note: Automatic answering function need supports from callee's phone features.

7.4.3 Key Event

F 25	Key Event ▾	F_PBOOK
F 26	Key Event ▾	F_DND
F 27	Key Event ▾	F_MWI
F 28	Key Event ▾	F_REDIAL
F 29	Key Event ▾	F_CALLERS
F 30	Key Event ▾	F_CFWD

- F_PBOOK: shortcut key to config phonebook;
- F_REDIAL: shortcut key to redial;
- F_DND: shortcut key for no disturb;
- F_MWI: MWI shortcut key to check the quantity of old and new message;
- F_CFWD: call forward shortcut key;
- F_CALLERS: shortcut key for call record;

7.4.4 DTMF

F 31	Dtmf ▾	625
F 32	Dtmf ▾	626

After configuration, the phone will send out the number by DTMF mode.

8 Basic Call Functions

8.1 Making calls

- 1) Select LINEx(LINE 1, 2, 3, 4, LINE5) key, then dial the number and end the dialing by # or dial key to choose the line you want to make outgoing call.
- 2) Press hands-free key in stand-by mode, then dial the number. It defaults outgoing call from SIP1.
- 3) Press dial key in stand-by mode, then the screen will display the number you called. Select a number to press Dial or hands-free key to put through the call/
- 4) Press hands-free key in stand-by mode, and select the kept number from Memory Key to make an outgoing call fast.
- 5) Firstly press Memory Key, select a number you want to dial from the screen then press Dial or hands-free key to put through the call.
- 6) Press Headset to use the earphone.

8.2 Answering calls

- 1) Press Answer key (softkey1) to answer the call; press Reject key (softkey3) to reject the call.
- 2) Press hands-free key to answer the call.
- 3) Pick up the headphones to answer the call.
- 4) Press HEADSET to use the earphones to answer the call.
- 5) Select a LINE key to answer the incoming call accordingly.

8.3 HOLD

8.3.1 Call waiting

For users in the course of call, they may want to handle an emergency, but don't want to get heard



from the other on the phone, so they can press **HOLD** button to hold the call temporarily and press **HOLD** button to release the call holding and be back into the call state.

Note: In this mode, users cannot make a new outgoing call. You need to press **HOLD** button to release the call holding and hang up the phone to continue.

8.3.2 Call holding

For users in the course of call, they can press **CONFERENCE** button to hold the current call temporarily to make a new call. When turns back to the first call, the second call will be holded also. Use the **Switch** button in LCD to switch between these 2 calls. Besides, these 2 calls can be ended separately or at the same time.

8.4 Forward



When there comes the incoming call, press **Drivert** when the phone rings, then enter the number you want to call and press **Send**. This incoming call will be forwarded automatically. Therefore, if you don't answer a call, use this function to forward the call without caller's awareness.

8.5 Blind transfer

When you get a call from A, but A wants to talk with B. Then you can press **Transfer** button, input B's number and end with # button to transfer the call and make A put through with B.

Note: It can be applied when there comes a new call when you are in the course of call already. In this situation, press **Switch (softkey1)** to switch between the two calls or press **Transfer** to transfer the call.

8.6 Attend Transfer

When you get a call from A, and A wants to talk with B. But B might not in the office or busy with something else, you can press **Conference** button to call B to check if B is available. If yes, then you can press **Transfer** to forward the call to make A put through with B; If not, just press **Close** to end your call with B and the call will be back to A's talking status.

8.7 Three Way Call

When you are talking with A and want to get C in the call also, you can press **CONFERENCE** button to hold the call with A temporarily and then call C, press **CONFERENCE** again to make 3-way conference call.

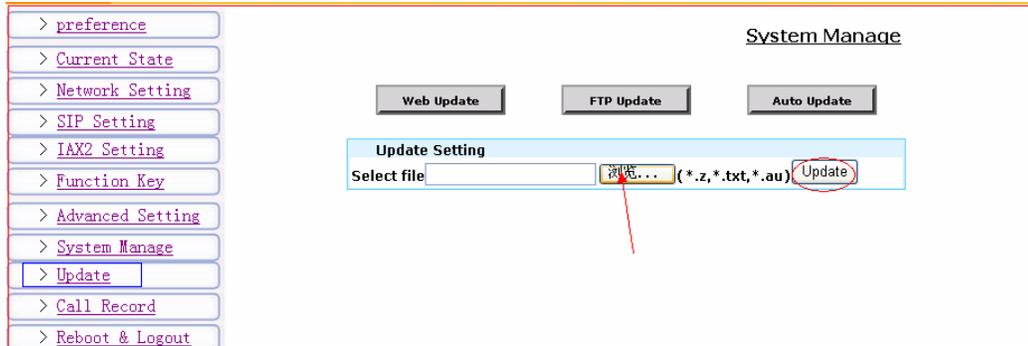
8.8 SMS

Press **SMS** button(softkey1) in stand-by mode, **SMS▶Add▶** input the message text **▶Send▶** input the number **▶Send(LINEx)**, then the short message will be sent to the inserted number via SIP1. If you press **LINEx** to send the message, then the message will be sent via your selected SIP LINE.

8.9 Customized Ringtones

Download your favourite MP3 music, and use the music format converter tool to change the music into audio format which can be identified by the phone. One important thing is that the name should be in 1.au, 2. au and should set **USER1**, **USER2**'s ringtone correspondingly. Then upgrade the ringtone via **WEB** and config on SIP page's ring type as user1, user2.

9 Software Upgrade



Browser to find previously saved configuration file (or files provided files), download to current phone, which saves the configuration one by one. You can download system upgrade files, ringtone files and mmiset files on this page. Note that for ringtone files, do config the name as 1.au, 2.au, correspondingly USER1, USER2 on ring type menu. Finally click **【Update】** activate the configuration.