

# FTA-102L

## Free Roaming Gateway

### User Manual



FTA-102L

PORTech Communications Inc.

# 【Content】

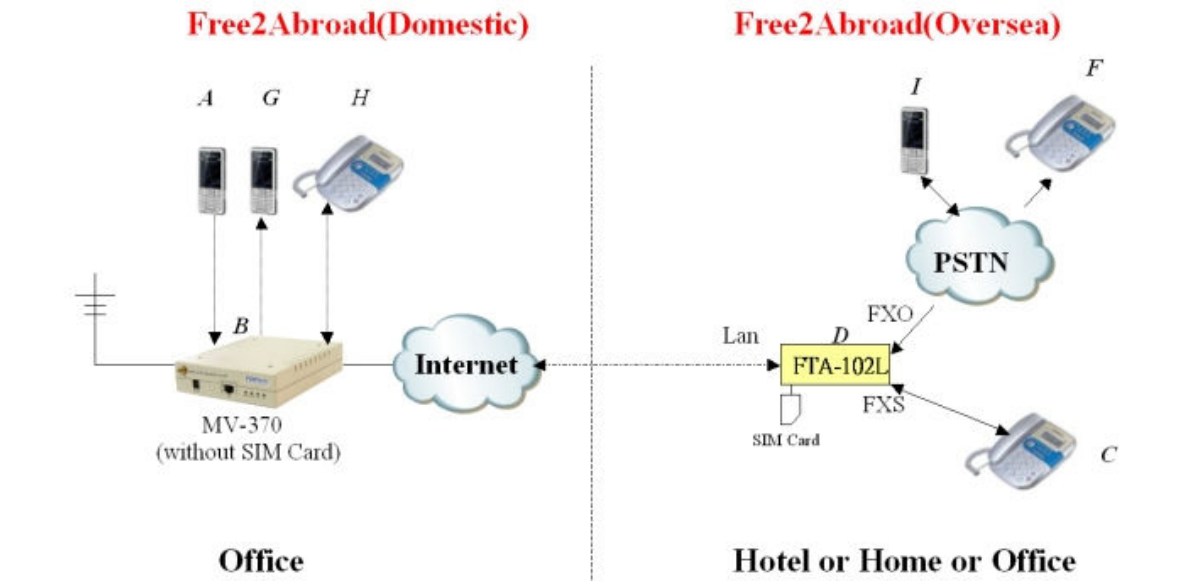
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## **1. Introduction**

When you go abroad with FTA-102L, all incoming calls of your original mobile phone are free of charge. FTA-102L provide free roaming fee for international inbound calls. When you are on business travel oversea, your coworkers, friends, family, and clients can just call your original mobile phone number to reach you. This is of enormous benefit for user, you don't need to use others country phone access number. Also, it's simply and easy to send from your original mobile phone while traveling/abroad.

## 2. System Topology



1. It can answer any domestic incoming calls while overseas traveling (A—B—D—C) or (A—B—D—F(I))
2. You can make local calls from F(I)-side (F(I)—D—B—G(H))
3. It can hear B's voice mail via C-side or F(I)-side.
4. It can read/receive the B-side's SMS on web.
5. It can make any domestic GSM calls from C-side (C—D—B—G(H)) or (F(I) side (with Caller ID Verification))
6. A—C—F(I) 3 Ways conference
7. A—C—F(I) or F(I)—C—A Call Forward

## 3. Function Description

1. Answer self-Mobile call at foreign country without any roaming fee (A-B-D-C or A-B-D-F).
2. Caller ID authentication for incoming call (F-D-B-G or F-D-B-H).
3. Retrieve voice mail from foreign country (C or F)
4. Dialing plan support for local FXO call.
5. C can transfer call to F, G or H.
6. A-C-F conference call.

## 4. Parts list

Please check the parts for any missing parts. If do, please contact our agents :

4.1 「FTA-102L」 main body

4.2 Power adaptor AC-DC (110V AC – 12V DC) or (220V AC – 12V DC)

4.3 Network cable

4.4 Phone connecting Line

4.5 User Manual



(4.1)



(4.2)



(4.3)



(4.4)

**5. Dimension: 14\*9\*3 cm**

## 6. Chart of the device

### 6.1 Front Panel

In normal situation, the register LED only blink at power-on stage for 3~6 times. If register LED keep blinking, the system is not in normal state and the registering of SIM may not be completed. Once the register LED keep blinking for several minutes, check ether-net connection or try another STUN server which can be set in the WEB page.

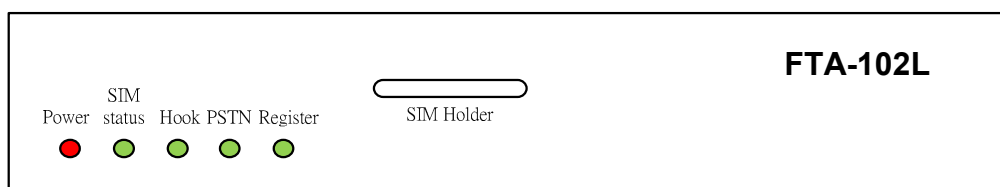


Fig-1.

**\*Power:** LED on after power on.

**\*SIM status:**

LED status	Behavior
OFF	Default
ON	SIM inserted but not registered
Slow blinking	registering
Flash off	Registered but in maintain mode
Flash on	Registered( standby mode )
Fast blinking	Incoming or outgoing ringing

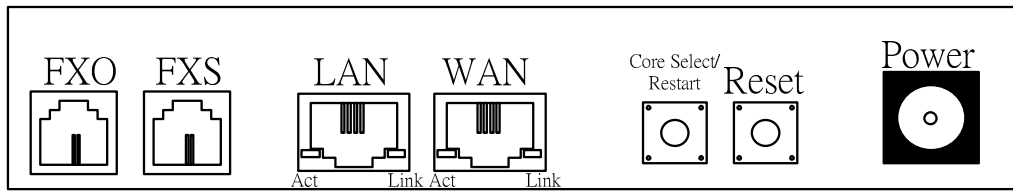
**\*Hook:** Indicate the status of phone.

**\*PSTN:** Indicate the status of PSTN line.

**\*Register:**

LED status	Behavior
OFF	Default
ON	Registered to SIP proxy
blinking	Checking NAT

## 6.2 Back Panel



**Fig-2.**

### **\*Restart button**

<b>Action</b>	<b>Behavior</b>
Short Click	System restart
Long Press (over 5 second)	System factory reset and restart



## 7. Web Page Setting

When the IP setting is done, the operator may setup all the rest parameters via web page.

Item	Value
HTML Port	9999
System User Name	fta
System Password	1234
Normal User Name	user
Normal Password	1234
WAN port IP	Default DHCP
LAN Port IP	192.168.123.1

### 7.1 Via WAN port

Step1: Use the FXS port phone set to get the WAN IP by IVR (#126#).

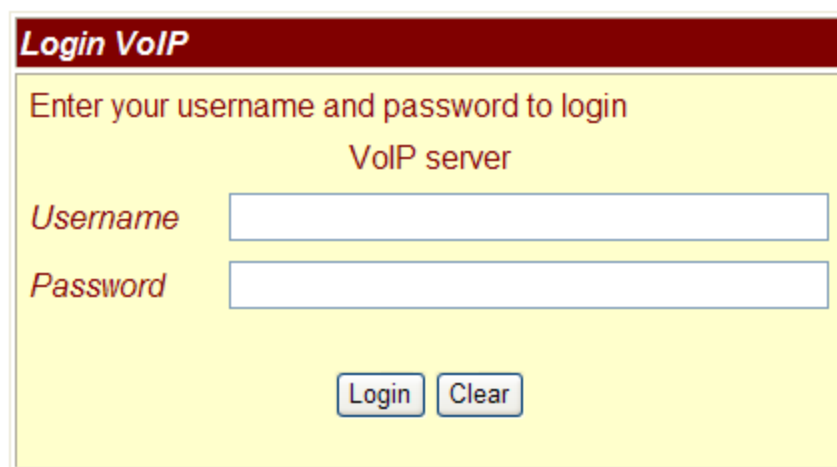
Step2: Start a WEB browser window and enter the following line to access WEB page.

http://wan\_ip:9999

### 7.2 Via LAN port

Step1: Start a WEB browser window and enter the following line to access WEB page.

http://192.168.123.1:9999



**Login VoIP**

Enter your username and password to login  
VoIP server

Username

Password

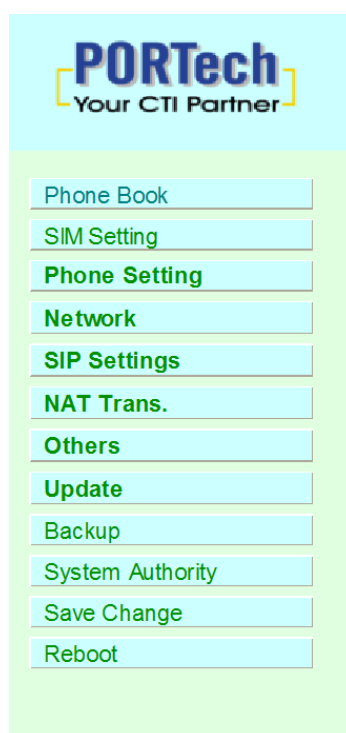
Login Clear

**Fig-3.**

## 8. System Information.

8.1 When you login the web page, you can see the demo system current system information like firmware version, company... etc in this page.

8.2 Also you can see the function lists in the left side. You can use mouse to click the function you want to set up.



## System Information

This page illustrate the system related information.

Host Name:	FTA-102L
Model Name:	FTA-102L
Firmware Version:	Fri Mar 5 17:03:54 2010 (100706)
Codec Version:	Wed Dec 16 16:50:52 2009. (912160)
Contact Address:	150, Shiang-Shung North Road., Taichung, Taiwan, R.O.C.
Tel:	886-4-23058000
Fax:	886-4-23022596
E-Mail:	<a href="mailto:sales@portech.com.tw">sales@portech.com.tw</a>
Web Site:	<a href="http://www.portech.com.tw">www.portech.com.tw</a>

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## 9. Phone Book

You could add/delete items in current phone books.



### Phone Book

You could add/delete items in current phone book.

Phone Book Page: page 1

Phone	Name	Number or URL	Select
0			<input type="checkbox"/>
1			<input type="checkbox"/>
2			<input type="checkbox"/>
3			<input type="checkbox"/>
4			<input type="checkbox"/>
5			<input type="checkbox"/>
6			<input type="checkbox"/>
7			<input type="checkbox"/>
8			<input type="checkbox"/>
9			<input type="checkbox"/>

#### Add New Phone

Position:  (0~99)

Name:

Number or URL:

## 10. SIM Setting

### 10.1 Remote SIM Setting (FTA-102L)

For SIM card registering setting, both FTA and MV should be configured.



### SIM Setting

Enable	Port
Service Port	<input type="text" value="38000"/> (1024-60000)
SIM ID	<input type="text" value="a1110001"/>
Module Name or URL	<input type="text" value="8730217@sip.iptel.org"/>
Module ID	<input type="text" value="a0000000"/>
Remote IP	<input type="text" value="192.168.0.52:1200"/>

**\*Service Port:** the UDP port of FTA used to connect with MV. Default value is 38000.

**\*SIM ID:** User defined SIM ID. The peer GSM module of MV will use this SIM ID as identity ID to connect with FTA.

**\*Module Name or URL:** The SIP account of peer MV port.

## 10.2 SIM Setting (MV-37X)

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**SIM Setting**

**SIM Card of Mobile 1**

Mode:  Local  Remote

Mobile ID:

Card ID:

SIM Server:

**SIM Card of Mobile 2**

Mode:  Local  Remote

Mobile ID:

Card ID:

SIM Server:

**\*Mode:** When the SIM is inserted to SIM holder in MV, user should select “Local” mode. If the SIM card is inserted in FTA, user should select Remote.

**\*Mobile ID:** User defined ID which is used to identify the GSM module.

**\*Card ID:** When the SIM card is inserted in FTA, user should configure MV to connect with FTA. This field is used to fill in the SIM ID which is set in the FTA.

**\*SIM Server:** The format of the field is “**server\_ip:port**”,

When MV is used with FTA, this field is updated by the information send from FTA. User only has to fill in a dummy server setting for “server\_ip”, and it’s mandatory; “port” must corresponding to FTA’s Service Port.

Then Server will search and send back to FTA’s IP, user has to fill that new IP as “server\_ip”

# 11. Phone Setting

## 11.1 Master Setting



## Master Setting

You could set the master number of your phone in this page.

	Number
Master Number:	<input type="text" value="5171"/>
No Answer Fwd Time Out:	<input type="text" value="2"/> (2~8 Ring, 0 for forward directly)
	<input type="button" value="Submit"/> <input type="button" value="Reset"/>

**\*Master Number:** The number that FXO dial out (i.e. the phone number of F in the system topology). System uses this number to authenticate the caller ID of PSTN incoming call. If the caller ID matches to the setting in the master number, it has the permission to dial out via GSM in MV (i.e. F-D-B-G or F-D-B-H). If the matching result is failed, the PSTN incoming call will ring the local FXS directly (F-D-C).

**\*No Answer Fwd Time Out:** Setup the FXS ringing period. For VOIP call from MV, system always rings local FXS first. After ringing period, system change to dial master number via FXO port. (Parameter "0": forwarding to PSTN directly.)

## 11.2 Volume Settings

You could set the volume of your phone in this page.



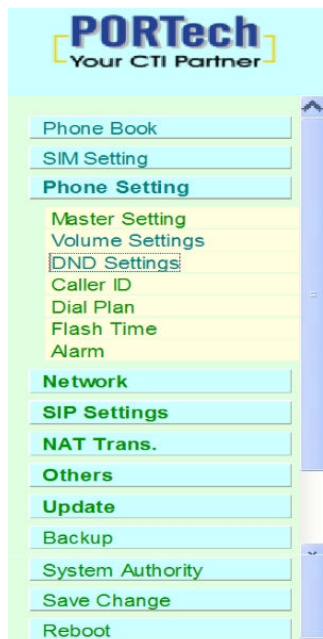
### Volume Setting

You could set the volume of your phone in this page.

Handset Volume:	<input type="text" value="10"/>	(0~12)
PSTN-Out Volume:	<input type="text" value="10"/>	(0~12)
Handset Gain:	<input type="text" value="10"/>	(0~15)
PSTN-In Gain:	<input type="text" value="10"/>	(0~15)

## 11.3 DND Settings

You could set the do not disturb period of your phone in this page



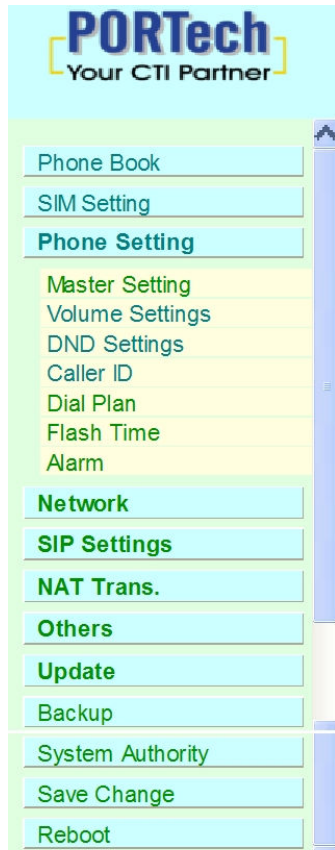
### DND Setting

You could set the do not disturb period of your phone in this page.

DND Always:	<input type="radio"/> On	<input checked="" type="radio"/> Off
DND Period:	<input type="radio"/> On	<input checked="" type="radio"/> Off
From:	<input type="text" value="00"/>	<input type="text" value="00"/> (hh:mm)
To:	<input type="text" value="00"/>	<input type="text" value="00"/> (hh:mm)

## 11.4 Caller ID

In order to correctly generate caller ID, user should set the caller ID format of FXS. You could enable/disable the caller ID setting in this page.



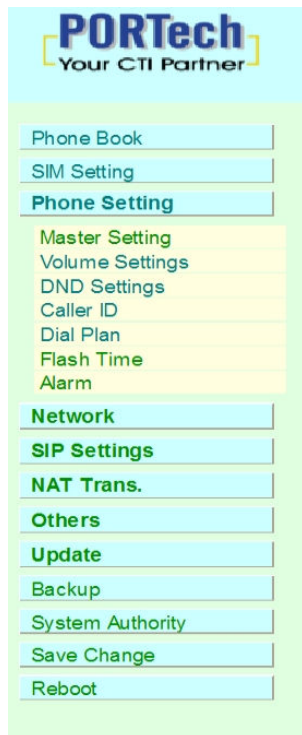
## Caller ID Setting

You could enable/disable the caller ID setting in this page.

Caller ID:	Caller ID after 1st Ring (FSK) <input type="button" value="v"/>
Single Caller ID:	<input type="radio"/> Yes <input checked="" type="radio"/> No
CID Without Time:	<input type="radio"/> Yes <input checked="" type="radio"/> No
CID Type 2:	<input type="radio"/> Yes <input checked="" type="radio"/> No



## 11.5 Dial Plan



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- Phone Book
- SIM Setting
- Phone Setting**
  - Master Setting
  - Volume Settings
  - DND Settings
  - Caller ID
  - Dial Plan
  - Flash Time
  - Alarm
- Network
- SIP Settings
- NAT Trans.
- Others
- Update
- Backup
- System Authority
- Save Change
- Reboot

## Dial Plan

You could the set the dial plan in this page.

Routing to :  IP  FXO  Disable

Routing rule :

Drop prefix :  Yes  No

Replace rule 1:  +

Drop prefix :  Yes  No

Replace rule 2:  +

Drop prefix :  Yes  No

Replace rule 3:  +

Drop prefix :  Yes  No

Replace rule 4:  +

Realm 1 prefix:

Realm 2 prefix:

Realm 3 prefix:

Auto Dial Time:  (3~9 sec)

Use # as send key:  Yes  No

**\*Routing to:** Define the call direction (IP call or PSTN call) if the dialed digit match the rule set in Routing rule field.

**\*Routing rule:** Define the digit string of routing rule. Only digit 0~9 are valid in rule string, as well as “x” denotes wildcard digit. Different patterns is separated by sign “+”.

**\*Drop prefix:**

Item	Description
Yes	The following replace rule define the prefix dropping rule
No	The following replace rule define the prefix adding rule

**\*Replace Rule:** The digit string defined in the first field will be added if the dialed string match the digit string defined in the second field of the replacement rule. If the selection of Drop prefix is “yes”, the matched digit string in the dialed string will be removed before adding prefix. Otherwise, if “No” is selected, the prefix is added at the beginning of dialed string without removing any digits.

Only digit 0~9 are valid in rule string, as well as “x” denotes wildcard digit and “,” denotes pause for one second. Different patterns is separated by sign “+”.

Replace rule 1:  +

Example 1:

Drop prefix :  Yes  No  
 Replace rule 1:  +

For example, the dialed string is 86621742885. After the processing of replacement rule, the result dialing string will become 002+86621742885.

Example 2:

Drop prefix :  Yes  No  
 Replace rule 1:  +

For instance, the dialed string is 00286621742885. After the processing of replacement rule, the result dialing string will become 006 86621742885 since “Yes” of Drop prefix is select and “002” is dropped and replaced by “006”.

Example 3:

Drop prefix :  Yes  No  
 Replace rule 1:  +

In this example, any 4-digits string begin with 5, 35 or 21 will be add a “007” prefix. e.g. 5171 will become 0075171.

Example 4:

Drop prefix :	<input type="radio"/> Yes <input checked="" type="radio"/> No
Replace rule 1:	9,,, + 5

In this example, any string begin with 5 will be add a “9” prefix. After the prefix “9” digit, it will be hold in 3 seconds and then the succeeded digits.

**\*Realm Selection:** The default call behavior of FTA act as a SIM extender. The default IP call will direct to peer MV, thus call by GSM network. User can specify ITSP by adding Realm Prefix before dialing destination number. The configuration of Realm Prefix can be found in the Dial Plan page.

## 11.6 Flash Time

You could set the flash time in this page

**PORTech**  
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- Phone Book
- SIM Setting
- Phone Setting
  - Master Setting
  - Volume Settings
  - DND Settings
  - Caller ID
  - Dial Plan
  - Flash Time
  - Alarm
- Network
- SIP Settings
- NAT Trans.
- Others
- Update
- Backup
- System Authority
- Save Change
- Reboot

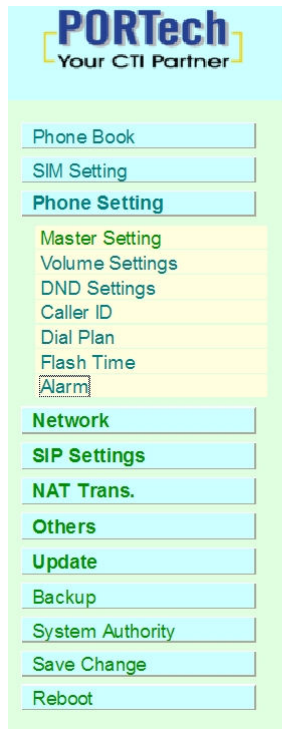
## Flash Time Setting

You could set the flash time in this page.

<b>FXO Flash Time</b>	
Generate Flash Signal:	<input type="text" value="10"/> x 10 ms (9~120)
<b>FXS Flash Time</b>	
Flash Signal Detect (MAX):	<input type="text" value="60"/> x 10 ms (4~255)
Flash Signal Detect (MIN):	<input type="text" value="7"/> x 10 ms (3~12)
<input type="button" value="Submit"/> <input type="button" value="Reset"/>	

## 11.7 Alarm

You could set the alarm time in this page.



The sidebar menu for the Alarm Settings page includes the following items:

- Phone Book
- SIM Setting
- Phone Setting
- Master Setting
- Volume Settings
- DND Settings
- Caller ID
- Dial Plan
- Flash Time
- Alarm
- Network
- SIP Settings
- NAT Trans.
- Others
- Update
- Backup
- System Authority
- Save Change
- Reboot

## Alarm Settings

You could set the alarm time in this page.

Alarm:  ON  OFF

Alarm Time:  :  (hh:mm)

Current time: 2010-03-09 16:21

## 12. Network

In Network you can check the Network Status, WAN, LAN, STNP Settings, and Virtual Server.

12.1 Network Status: You can check the current Network setting in this page.

**PORTech**  
Your CTI Partner

- Phone Book
- SIM Setting
- Phone Setting
- Network**
  - Status
  - WAN
  - LAN
  - SNTP Settings
  - Virtual Server
- SIP Settings
- NAT Trans.
- Others
- Update
- Backup
- System Authority
- Save Change
- Reboot

### Network Status

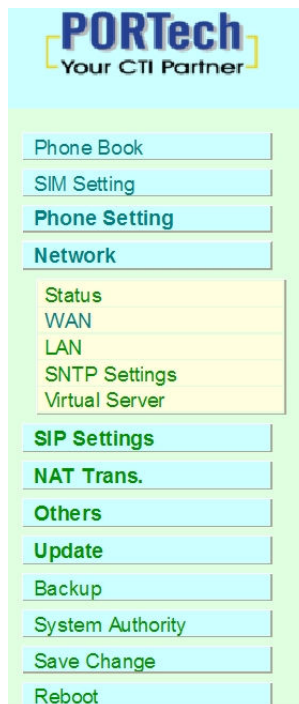
This page shows current status of network interfaces of the system.

System Up Time:	0 day(s) 6 hour(s) 59 minute(s)
Network Link Up Time:	0 day(s) 6 hour(s) 58 minute(s)

WAN	
Type:	DHCP Client
IP:	192.168.0.144
Mask:	255.255.255.0
Gateway:	192.168.0.254
DNS Server 1:	168.95.192.1
DNS Server 2:	168.95.1.1

LAN	
Type:	Fixed IP Client
IP:	192.168.123.1
Mask:	255.255.255.0
Gateway:	192.168.123.1
DNS Server 1:	168.95.192.1
DNS Server 2:	168.95.1.1

## 12.2 WAN



### WAN Settings

You could configure the WAN settings in this page.

LAN Mode:  Bridge  NAT

#### WAN Setting

IP Type:  Fixed IP  DHCP Client  PPPoE

IP:

Mask:

Gateway:

DNS Type:  Fixed  Auto

DNS Server1:

DNS Server2:

MAC:

Host Name:

#### PPPoE Setting

User Name:

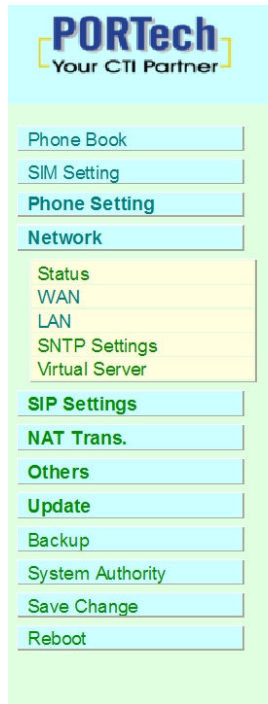
Password:

Service Name:

- (1) The DHCP Client Configuration item is to setup the WAN port's network environment.
- (2) The PPPoE Configuration item is to setup the PPPoE Username and Password. If you have the PPPoE account from your Service Provider, please input the Username and the Password correctly.
- (3) When you finished the setting, please click the Submit button.

## 12.3 LAN

You could configure the LAN settings in this page.



**PORTech**  
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- Phone Book
- SIM Setting
- Phone Setting
- Network**
  - Status
  - WAN
  - LAN
  - SNTP Settings
  - Virtual Server
- SIP Settings
- NAT Trans.
- Others
- Update
- Backup
- System Authority
- Save Change
- Reboot

## LAN Settings

You could configure the LAN settings in this page.

LAN Setting	
P:	<input type="text" value="192.168.123.1"/>
Mask:	<input type="text" value="255.255.255.0"/>
MAC:	<input type="text" value="00037e007f43"/>

DHCP Server	
DHCP Server:	<input type="radio"/> On <input checked="" type="radio"/> Off
Start IP:	<input type="text" value="150"/>
End IP:	<input type="text" value="200"/>
Lease Time:	<input type="text" value="1"/> : <input type="text" value="0"/> (dd:hh)

## 12.4 SNTP Settings

SNTP Setting function: you can setup the primary and second SNTP Server IP Address, to get the date/time information. Also you can base on your location to set the Time Zone, and how long need to synchronize again. When you finished the setting, please click the Submit button.

**PORTech**  
Your CTI Partner

- Phone Book
- SIM Setting
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- Others
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- Backup
- System Authority
- Save Change
- Reboot

## SNTP Settings

You could set the SNTP servers and Daylight Saving Time (DST) in this page.

SNTP:  On  Off

Primary Server:

Secondary Server:

Time Zone: GMT +  :  (hh:mm)

Sync. Time:  :  :  (dd:hh:mm)

Daylight Saving:  On  Off

DST Offset:  :

Day of Month

Week of Month

Start Time:

DST End Date:

Day of Month

Week of Month

End Time:



## 12.5 Virtual Server

You could set your virtual servers in this page. The usual port numbers are WEB [TCP 80], FTP(Control) [TCP 21], FTP(Data) [TCP 20], E-mail(POP3) [TCP 110], E-mail(SMTP) [TCP 25], DNS [UDP 53] and Telnet [TCP 23].

**PORTech**  
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- Phone Book
- SIM Setting
- Phone Setting
- Network
  - Status
  - WAN
  - LAN
  - SNTP Settings
  - Virtual Server
- SIP Settings
- NAT Trans.
- Others
- Update
- Backup
- System Authority
- Save Change
- Reboot

### Virtual Server Settings

You could set your virtual servers in this page. The usual port numbers are WEB [TCP 80], FTP(Control) [TCP 21], FTP(Data) [TCP 20], E-mail(POP3) [TCP 110], E-mail(SMTP) [TCP 25], DNS [UDP 53] and Telnet [TCP 23].

Virtual Server Page: page 1

Num	Enable	Protocol	In Port	Ex Port	Server IP	Select
0	<input type="checkbox"/>					<input type="checkbox"/>
1	<input type="checkbox"/>					<input type="checkbox"/>
2	<input type="checkbox"/>					<input type="checkbox"/>
3	<input type="checkbox"/>					<input type="checkbox"/>
4	<input type="checkbox"/>					<input type="checkbox"/>
5	<input type="checkbox"/>					<input type="checkbox"/>
6	<input type="checkbox"/>					<input type="checkbox"/>
7	<input type="checkbox"/>					<input type="checkbox"/>

Enable Selected

Delete Selected

Delete All

Reset

#### Add Virtual Server

Server IP:

Protocol:

Internal Port Start:

Internal Port End:

External Port Start:

External Port End:

Add Server

Reset

## 13. SIP Settings

In SIP Setting you can setup the Service Domain, Port Settings, Codec Settings, Codec ID, DTMF Setting and Other Settings.

### 13.1 Service Domain

User need to set the registering information of SIP proxy at this page. FTA cannot work correctly without registering to SIP proxy.

**PORTech**  
Your CTI Partner

Phone Book  
SIM Setting  
Phone Setting  
Network  
SIP Settings  
Service Domain  
Port Settings  
Codec Settings  
Codec ID  
DTMF Setting  
Other Settings  
NAT Trans.  
Others  
Update  
Backup  
System Authority  
Save Change  
Reboot

### Service Domain Settings

You could set information of service domains in this page.

Realm No.: Realm 1

Realm	
Active:	<input checked="" type="radio"/> On <input type="radio"/> Off
Display Name:	<input type="text" value="83058000"/>
User Name:	<input type="text" value="83058000"/>
Register Name:	<input type="text" value="83058000"/>
Register Password:	<input type="password" value="....."/>
Domain Server:	<input type="text"/>
Proxy Server:	<input type="text" value="sip.iptel.org"/>
Outbound Proxy:	<input type="text"/>
Subscribe for MWI:	<input type="radio"/> On <input checked="" type="radio"/> Off
Status:	Registered

First you need to click Active to enable the Service Domain, and then you can input the following items.

- (1) Display name: you can input the name you want to display.
- (2) User name: you need to input the User Name get from your ISP.
- (3) Register Name: you need to input the Register Name get from your ISP.
- (4) Register Password: you need to input the Register Password get from ISP.
- (5) Domain Server: you need to input the Domain Server get from your ISP.

- (6) Proxy Server: you need to input the Proxy Server get from your ISP. Please note, FTA-102L must connect "message Server". E.g. the free server we recommend, IPTel, with this feature.
- (7) Outbound Proxy: you need to input the Outbound Proxy get from your ISP. If your ISP does not provide the information, then you can skip this item.
- (8) You can see the Register Status in the Status item.
- (9) When you finished the setting, please click the Submit button. Remember to click "Save Charge"

## 13.2 Port Settings

You could set the port number in this page.

The screenshot shows the PORTech web interface. The logo at the top left reads "PORTech Your CTI Partner". A sidebar menu on the left contains the following items: Phone Book, SIM Setting, Phone Setting, Network, SIP Settings (highlighted in blue), Service Domain, Port Settings (highlighted in yellow), Codec Settings, Codec ID, DTMF Setting, Other Settings, NAT Trans., Others, Update, Backup, System Authority, Save Change, and Reboot.

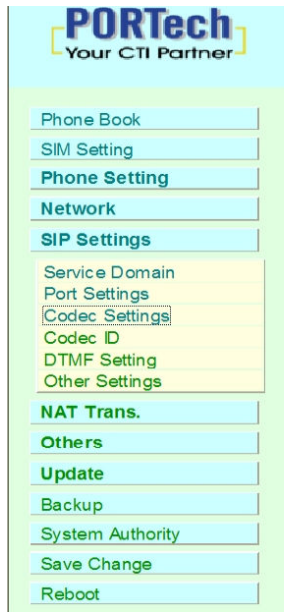
### Port Settings

You could set the port number in this page.

SIP Port:	<input type="text" value="5060"/>	(0~65533) (Set 0 for auto, range as bellow)
RTP Port:	<input type="text" value="20000"/>	(0~65533) (Set 0 for auto, range as bellow)
SIP Port Range:	<input type="text" value="10000"/> ~ <input type="text" value="10999"/>	(1024~40000)
RTP Port Range:	<input type="text" value="20000"/> ~ <input type="text" value="21999"/>	(1024~40000)

## 13.3 Codec Settings

You can setup the Codec priority, RTP packet length in this page. You need to follow the ISP suggestion to setup these items. When you finished the setting, please click the Submit button.



**PORTech**  
Your CTI Partner

- Phone Book
- SIM Setting
- Phone Setting
- Network
- SIP Settings**
  - Service Domain
  - Port Settings
  - Codec Settings**
  - Codec ID
  - DTMF Setting
  - Other Settings
- NAT Trans.
- Others
- Update
- Backup
- System Authority
- Save Change
- Reboot

### Codec Settings

You could set the codec settings in this page.

#### Codec Priority

Codec Priority 1:	G.711 u-law	▼
Codec Priority 2:	G.711 a-law	▼
Codec Priority 3:	G.723	▼
Codec Priority 4:	G.729	▼
Codec Priority 5:	Not Used	▼
Codec Priority 6:	Not Used	▼
Codec Priority 7:	Not Used	▼
Codec Priority 8:	Not Used	▼
Codec Priority 9:	Not Used	▼

#### RTP Packet Length

G.711 & G.729:	20 ms	▼
G.723:	30 ms	▼

#### G.723 5.3K

G.723 5.3K:  On  Off

#### Voice VAD

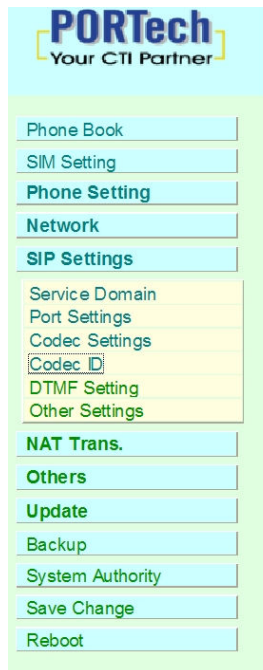
Voice VAD:  On  Off

Submit

Reset

## 13.4 Codec ID

You can setup the Codec ID in this page.



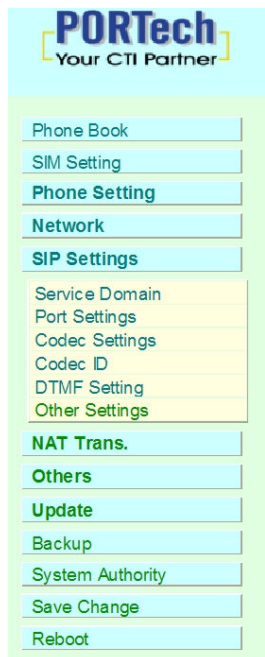
### Codec ID Setting

You could set the value of Codec ID in this page.

Codec Type	ID	Default Value
G726-16 ID:	<input type="text" value="23"/> (95~255)	<input checked="" type="checkbox"/> 23
G726-24 ID:	<input type="text" value="22"/> (95~255)	<input checked="" type="checkbox"/> 22
G726-32 ID:	<input type="text" value="2"/> (95~255)	<input checked="" type="checkbox"/> 2
G726-40 ID:	<input type="text" value="21"/> (95~255)	<input checked="" type="checkbox"/> 21
RFC 2833 ID:	<input type="text" value="101"/> (95~255)	<input checked="" type="checkbox"/> 101

## 13.5 DTMF Settings

You can setup the DTMF Setting in this page.




### DTMF Setting

You could set the DTMF setting in this page.

- RFC 2833
- Inband DTMF
- Send DTMF SIP Info

## 13.6 Other Settings

Other Settings: you can setup the Hold by RFC and QoS in this page. To change these settings, please follow your ISP information. When you finished the setting, please click the Submit button. The QoS setting is to set the voice packets' priority. If you set the value higher than 0, then the voice packets will get the higher priority to the Internet. But the QoS function still need to cooperate with the others Internet devices.



- Phone Book
- SIM Setting
- Phone Setting
- Network
- SIP Settings**
  - Service Domain
  - Port Settings
  - Codec Settings
  - Codec ID
  - DTMF Setting
  - Other Settings
- NAT Trans.
- Others
- Update
- Backup
- System Authority
- Save Change
- Reboot

## Other Settings

You could set other settings in this page.

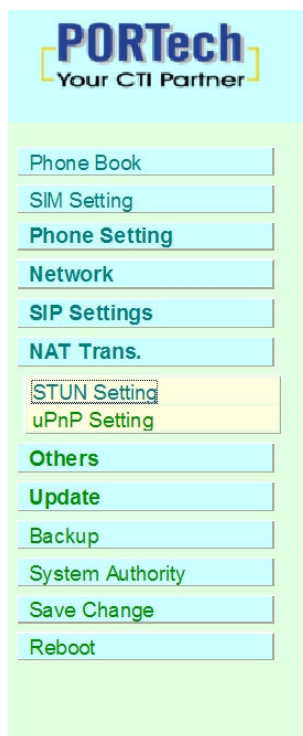
Hold by RFC:	<input type="radio"/> On <input checked="" type="radio"/> Off
Voice QoS (Diff-Serv):	<input type="text" value="40"/> (0~63)
SIP QoS (Diff-Serv):	<input type="text" value="40"/> (0~63)
SIP Expire Time:	<input type="text" value="60"/> (15~86400 sec, 0=define by Server)
Use DNS SRV:	<input type="radio"/> On <input checked="" type="radio"/> Off
Send Keep Alives Packet:	<input type="radio"/> On <input checked="" type="radio"/> Off
Keep Alives Period:	<input type="text" value="60"/> (15~250 sec)
Jitter Buffer:	<input type="text" value="1"/> (0~32 packets)
SIP Server type:	General <input type="button" value="v"/>
SIP VID (VLAN):	<input type="text" value="0"/> (2~4094, 0:disabled)
RTP VID (VLAN):	<input type="text" value="0"/> (2~4094, 0:disabled)

## 14. NAT Trans.

In NAT Trans. you can setup STUN and uPnP function. These functions can help your VoIP device working properly behind NAT.

### 14.1 STUN Setting (optional)

There is a default setting of STUN server in the FTA system database; user can ignore this step, which is optional setting. If the STUN server is not connectable or service shutdown, please change STUN setting at this page.



**PORTech**  
Your CTI Partner

- Phone Book
- SIM Setting
- Phone Setting
- Network
- SIP Settings
- NAT Trans.
- STUN Setting**
- uPnP Setting
- Others
- Update
- Backup
- System Authority
- Save Change
- Reboot

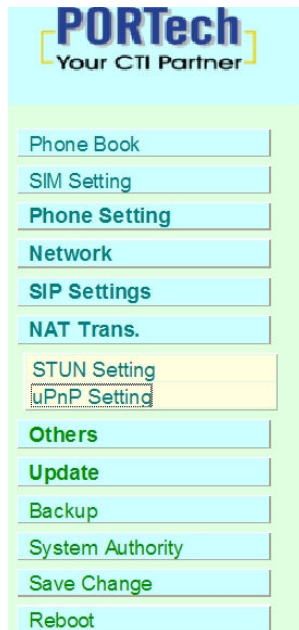
## STUN Setting

You could set the IP of STUN server in this page.

<b>STUN:</b>	<input checked="" type="radio"/> On <input type="radio"/> Off
STUN Server:	<input type="text" value="stun.xten.com"/>
STUN Port:	<input type="text" value="3478"/> (80~65535)
<b>Force Public IP:</b>	<input type="radio"/> On <input checked="" type="radio"/> Off
Public IP address:	<input type="text"/>
Port:	<input type="text" value="5060"/> (80~65535)
<input type="button" value="Submit"/> <input type="button" value="Reset"/>	

## 14.2 uPnP Setting

You could enable/disable the uPnP in this page.



The screenshot shows the PORTech web interface with a sidebar menu. The menu items are: Phone Book, SIM Setting, Phone Setting, Network, SIP Settings, NAT Trans., STUN Setting, uPnP Setting (highlighted), Others, Update, Backup, System Authority, Save Change, and Reboot.

### uPnP Setting

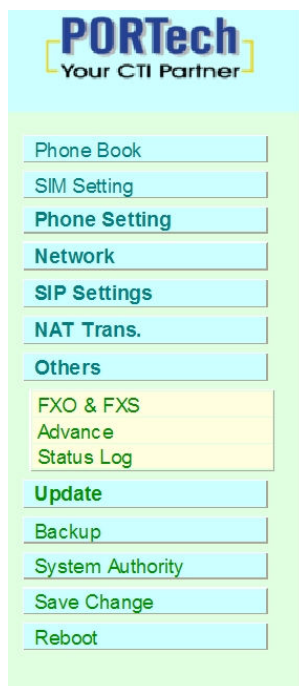
You could enable/disable the uPnP in this page.

uPnP:  On  Off

## 15. Others

### 15.1 FXO&FXS

User should set FXS and FXO type according to country which FTA located.



The screenshot shows the PORTech web interface with a sidebar menu. The menu items are: Phone Book, SIM Setting, Phone Setting, Network, SIP Settings, NAT Trans., Others, FXO & FXS (highlighted), Advance, Status Log, Update, Backup, System Authority, Save Change, and Reboot.

### FXO & FXS Setting

You could select the FXO & FXS impedance of the analog telephone by different country in this page.

FXO Port:

FXS Port:

FXO Silence Timeout :  (1~250 minutes)

FXO CID forward:  On  Off



## 15.2 Advance

You could change advanced setting in this page.



Navigation menu for the Advanced Setting page. The menu items are: Phone Book, SIM Setting, Phone Setting, Network, SIP Settings, NAT Trans., Others, FXO & FXS, **Advance**, Status Log, Update, Backup, System Authority, Save Change, and Reboot. The 'Advance' item is highlighted in yellow.

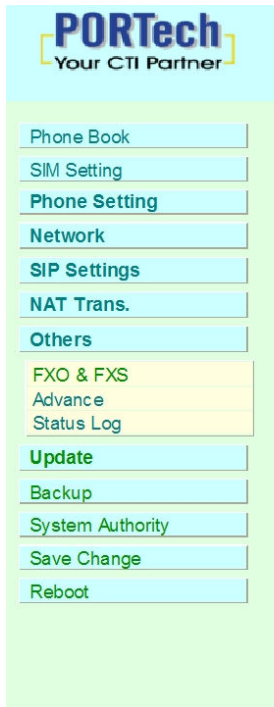
## Advanced Setting

You could change advanced setting in this page.

ICMP Not Echo:	<input type="radio"/> Yes <input checked="" type="radio"/> No
Send Anonymous CID:	Disabled
Management from WAN:	<input checked="" type="radio"/> Yes <input type="radio"/> No
Stop feature tone:	<input type="radio"/> Yes <input checked="" type="radio"/> No (MMI,forward,block...)
Billing Signal:	Disabled
CPC Delay:	2 (2~5 Seconds)
CPC Duration:	0 x 10 ms (0~120)
IP Dialing format:	Type 1 (x@x.x.x)
Send Flash event:	Disabled
Encryption Type:	Disabled
Encryption Key:	.....
PPPoE retry period:	5 Seconds
System Log Server:	
System Log Type:	None

Submit Reset

## 15.3 Status Log



Navigation menu for the Status Log page. The menu items are: Phone Book, SIM Setting, Phone Setting, Network, SIP Settings, NAT Trans., Others, FXO & FXS, **Advance**, **Status Log**, Update, Backup, System Authority, Save Change, and Reboot. The 'Status Log' item is highlighted in yellow.

## Status Log

```
<2005-01-01 00:00>Application starting ...
<2005-01-01 00:00>Init Wan Interface!
<2005-01-01 00:00>Iface type : DHCP_CLIENT
<2005-01-01 00:00>Init Lan Interface!
<2005-01-01 00:00>Iface type : FIXED_IP
<2005-01-01 00:00>DHCP_SendDiscover()
<2005-01-01 00:00>Rx OFFER from 192.168.0.254
<2005-01-01 00:00>DHCP_SendRequest()
<2005-01-01 00:00>DHCP state 1=2
<2005-01-01 00:00>Got DHCP Ip=192.168.0.144
<2005-01-01 08:00>Get SNTP server IP=208.75.88.4
<2010-03-09 09:10>Get Time from SNTP server, Succeed!
<2010-03-09 09:11>Nat Mode: Lost Ethernet-->Dhcp Abort!
<2010-03-09 09:11>DHCP ABORT!
<2010-03-09 09:11>DHCP_SendDiscover()
<2010-03-09 09:11>Rx OFFER from 192.168.0.254
<2010-03-09 09:11>DHCP_SendRequest()
<2010-03-09 09:11>DHCP state 1=2
<2010-03-09 09:11>Got DHCP Ip=192.168.0.144
<2010-03-09 15:10>Get SNTP server IP=207.171.30.106
<2010-03-09 15:16>Get Time from SNTP server, Succeed!
```

## 16. Update

In Update you can update the system's firmware to the new one or the factory reset to let the system back to default setting.

### 16.1 New Firmware



## Update Firmware

You could update the newest firmware.

Method:  Local PC  TFTP

### Local PC

Code Type: OS0 (\*.gz, \*.gzh)

File Location:

### TFTP

TFTP Server:

- (1) In New Firmware function you can update new firmware via Local PC in this page. You can upgrade the firmware by the following steps:
- (2) Select the firmware code type.
- (3) Click the "Browse" button in the right side of the File Location or you can type the correct path and the filename in File Location blank.
- (4) Select the correct file you want to download to the system then click the Update button.
- (5) Please click update/default setting after update firmware

## 16.2 Default Settings

In this page: Update/ Default Settings, you could restore the factory default settings to the system. All setting will restore default setting.

IP will retain original IP as usual not default IP.



## Restore Default Settings

You could click the restore button to restore the factory settings.

Restore default settings:

## 17. Backup

You could save current system setting to file: System Settings and PhoneBook.



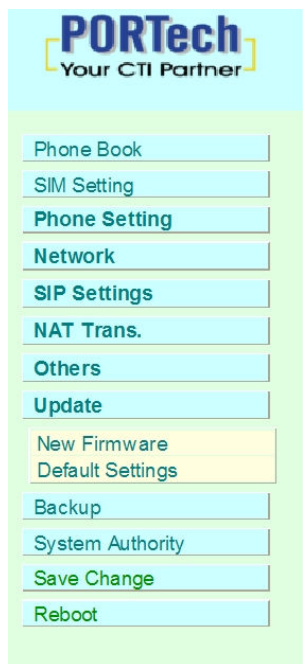
### Backup System Settings

You could save current system settings to file.

System Settings:	<input type="button" value="Save File"/>
PhoneBook:	<input type="button" value="Save File"/>

## 18. System Authority

In System Authority you can change your login name and password



### System Authority

You could change the login username/password in this page.

New username:	<input type="text"/>
New password:	<input type="password"/>
Confirmed password:	<input type="password"/>
<input type="button" value="Submit"/> <input type="button" value="Reset"/>	

## 19. Save Change

In Save Change you can save the changes you have done. If you want to use new setting in the VoIP system, you have to click the Save button. After you click the Save button, the system will automatically restart and the new setting will effect.



### Save Changes

You have to save changes to effect them.

---

Save Changes:

## 20. Reboot

Reboot function you can restart the system. If you want to restart the system, you can just click the Reboot button, and then the system will automatically.



### Reboot System

You could press the reboot button to restart the system.

---

Reboot system:

## 21. Specification

### 21.1 Call transfer

During ongoing call, user can transfer current call by “flash hook”. The call will be transfer to PSTN if the current call is from VOIP, and vice versa.

### 21.2 Conference call

During ongoing call, user can initiate a conference call by “flash hook”+ “#512#”.

### 22.3 IVR Command

Group	Action	key	parameter(s)
Function	IVR unlock	#190#	
Function	IVR lock	#191#	
Function	Reboot	#195#	
Function	Factory	#198#	
Function	Set DHCP client	#111#	
Function	Set static IP	#112xxx*xxx*xxx* xxx#	Static IP address
Function	Set network mask	#113xxx*xxx*xxx* xxx#	network mask
Function	Set default gateway IP	#114xxx*xxx*xxx* xxx#	default gateway IP
Function	Set primary DNS	#115xxx*xxx*xxx* xxx#	primary DNS
Info	Check LAN IP Address	#120#	
Info	Check DHCP client status	#121#	
Info	User name of SIP account	#122#	
Info	Check network mask	#123#	
Info	Check default gateway IP	#124#	
Info	Check DNS	#125#	

Info	Check WAN IP Address	#126#	
Info	Software version	#128#	
Info	Check PSTN number of forward all call	#147#	
Info	Check PSTN number of no answer forward call	#149#	
Function	Forward disable	#145#	
Function	Forward all call to PSTN	#147xxxxxxxx#	PSTN number
Function	No answer forward to PSTN	#149xxxxxxxx#	PSTN number
Function	conference	#512#	