

# PA168V SIP FXS Gateway



## Http Setup Guide

|                                                            |    |
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When PA168V SIP FXS gateway is properly installed, you can set each parameter through PC and Web browser.

Details please refer to 《PA168 V SIP FXS gateway Spec and Install》

## ➤ Configuration with the standard WEB browser

Double click  icon to open the IE. Input the IP address of the PA168V into address bar (e.g.192.168.1.100) , and then input password of the PA168V into the following page. Default ordinary password is 1234 and super password is 12345678. If the default password is invalid, please consult the supplier.

| Network Settings                             |                                                                    |                                             |                                            |                                                 |                                                |
|----------------------------------------------|--------------------------------------------------------------------|---------------------------------------------|--------------------------------------------|-------------------------------------------------|------------------------------------------------|
| iptype                                       | <input type="text" value="static"/>                                | ppp id                                      | <input type="text"/>                       | ppp pin                                         | <input type="text"/>                           |
| local ip                                     | <input type="text" value="192.168.1.100"/>                         | subnet mask                                 | <input type="text" value="255.255.255.0"/> | router ip                                       | <input type="text" value="192.168.1.254"/>     |
| dns                                          | <input type="text" value="202.106.46.151"/>                        | dns2                                        | <input type="text" value="202.96.128.68"/> | mac                                             | <input type="text" value="00-09-45-0a-45-2e"/> |
| Audio Settings                               |                                                                    |                                             |                                            |                                                 |                                                |
| codec1                                       | <input type="text" value="g729"/>                                  | codec2                                      | <input type="text" value="g711a"/>         | codec3                                          | <input type="text" value="g711u"/>             |
| codec4                                       | <input type="text" value="gsm"/>                                   | codec5                                      | <input type="text" value="null"/>          | codec6                                          | <input type="text" value="null"/>              |
| vad                                          | <input checked="" type="checkbox"/>                                | agc                                         | <input type="checkbox"/>                   | aec                                             | <input checked="" type="checkbox"/>            |
| audio frames                                 | <input type="text" value="2"/>                                     | g.723.1 high rate                           | <input checked="" type="checkbox"/>        | ilbc payload                                    | <input type="text" value="98"/>                |
| jitter size                                  | <input type="text" value="0"/>                                     | handset in(0-15)                            | <input type="text" value="15"/>            | handset out(0-31)                               | <input type="text" value="20"/>                |
| dual mode                                    | <input type="text" value="pstn first"/>                            | dual mode prefix                            | <input type="text" value="30"/>            |                                                 |                                                |
| Dial Plan Settings                           |                                                                    |                                             |                                            |                                                 |                                                |
| use dialplan                                 | <input type="text" value="disable"/>                               | dial number                                 | <input type="text" value="16900"/>         | ddd code                                        | <input type="text" value="10"/>                |
| idd code                                     | <input type="text" value="86"/>                                    | idd prefix                                  | <input type="text" value="00"/>            | ddd prefix                                      | <input type="text" value="0"/>                 |
| inner line                                   | <input type="text" value="disable"/>                               | inner line prefix                           | <input type="text" value="0"/>             | call waiting                                    | <input type="checkbox"/>                       |
| forward number                               | <input type="text" value="95963"/>                                 | fwd poweroff                                | <input type="checkbox"/>                   | fwd noanswer                                    | <input type="checkbox"/>                       |
| fwd always                                   | <input type="checkbox"/>                                           | fwd busy                                    | <input type="checkbox"/>                   | answer                                          | <input type="text" value="30"/>                |
| use digitmap                                 | <input type="checkbox"/>                                           |                                             |                                            |                                                 |                                                |
| SIP Protocol Settings                        |                                                                    |                                             |                                            |                                                 |                                                |
| use service                                  | <input checked="" type="checkbox"/>                                | register ttl                                | <input type="text" value="60"/>            |                                                 |                                                |
| service type                                 | <input type="text" value="common"/>                                | sip proxy                                   | <input type="text" value="203.93.9.57"/>   | domain/realm                                    | <input type="text" value="203.93.9.57"/>       |
| nat traversal                                | <input type="text" value="stun"/>                                  | nat addr                                    | <input type="text"/>                       | nat ttl                                         | <input type="text" value="30"/>                |
| phone number                                 | <input type="text" value="272727"/>                                | account                                     | <input type="text"/>                       | pin                                             | <input type="text"/>                           |
| register port                                | <input type="text" value="5060"/>                                  | rtp port                                    | <input type="text" value="6002"/>          | tos                                             | <input type="text" value="0"/>                 |
| outbound proxy                               | <input type="checkbox"/>                                           | dtmf                                        | <input type="text" value="inband audio"/>  | dtmf payload                                    | <input type="text" value="101"/>               |
| prack                                        | <input type="checkbox"/>                                           | super password                              | <input type="text" value="12345678"/>      | debug                                           | <input type="text" value="output all"/>        |
| Other Settings                               |                                                                    |                                             |                                            |                                                 |                                                |
| password                                     | <input type="text" value="1234"/>                                  | upgrade type                                | <input type="text" value="disable"/>       | upgrade addr                                    | <input type="text"/>                           |
| sntp ip                                      | <input type="text" value="255.255.255.255"/>                       | use daylight                                | <input type="checkbox"/>                   |                                                 |                                                |
| timezone                                     | <input type="text" value="(GMT+08:00)Beijing, Hong Kong, Urumqi"/> |                                             |                                            |                                                 |                                                |
| <input type="button" value="Save Settings"/> |                                                                    | <input type="button" value="Address Book"/> |                                            | <input type="button" value="Upgrade Firmware"/> |                                                |

Fig 1.1 Http Setting

With Debug set 0[disable], please input super password; while Debug is not

set as 0[disable], please input ordinary password. Then click  button.

The following configured page will popup.

### ➤ Network Setting:

| Network Settings |                                             |             |                                            |           |                                                |
|------------------|---------------------------------------------|-------------|--------------------------------------------|-----------|------------------------------------------------|
| iptype           | <input type="text" value="static"/>         | ppp id      | <input type="text"/>                       | ppp pin   | <input type="text"/>                           |
| local ip         | <input type="text" value="192.168.1.100"/>  | subnet mask | <input type="text" value="255.255.255.0"/> | router ip | <input type="text" value="192.168.1.254"/>     |
| dns              | <input type="text" value="202.106.46.151"/> | dns2        | <input type="text" value="202.96.128.68"/> | mac       | <input type="text" value="00-0d-ea-00-00-03"/> |

Fig 1.2 Network Setting

- **iptype:** Set how PA168V FXS Gateway gets relevant network parameters by selecting the corresponding item from drop down list.
  - **static ip:** Select this item to authorize users to set IP address, subnet mask, router IP address and dns IP of PA168V FXS gateway manually.
  - **dhcp:** Select this item to enable DHCP mode, and it will assign the IP address and other net parameters automatically.
  - **pppoe:** Those ADSL, Cable Modem and Ether net users who take the way of virtual dial-up please select this item for it is a protocol especially designed for them.
  - **modem:** Users of PA168V FXS gateway attached with modem, please select this item. Then please fill user name and password of dial-up network into **ppp id** and **ppp pin** fields.
- **ppp id:** With **pppoe** selected in **iptype** drop down list, please enter the

ADSL user name here; with **modem** selected in **iptype** drop down list, please enter the modem dial-up user name here. The length of the user name is limited within 40 bytes.

- **ppp pin:** With **pppoe** selected in **iptype** drop down list, please enter the ADSL password here; with **modem** selected in **iptype** drop down list, please enter the modem dial-up password here. The length of the password is limited within 24 bytes.
- **local ip:** With **static ip** selected in **iptype** drop down list, please enter IP address acquired from the administrator or ISP.
- **subnet mask:** With **static ip** selected in **iptype** drop down list, please enter subnet mask acquired from the administrator or ISP.
- **router ip:** With **static ip** selected in **iptype** drop down list, please enter the default Gateway IP address on which the PA168V locates in the network.
- **dns:** With **static ip** selected in **iptype** drop down list, please enter the IP address of the main DNS server .
- **dns (spare):** With **static ip** selected in **iptype** drop down list, please enter IP address of backup DNS server here.
- **mac:** MAC address is the physical address supplied by the Ethernet NIC.

Every PA168V FXS Gateway is preset while shipped from the factory with a unique algorithm MAC address printed on the back of the base.

➤ **Audio settings:**

| Audio Settings |                                         |                   |                                     |                    |                                     |
|----------------|-----------------------------------------|-------------------|-------------------------------------|--------------------|-------------------------------------|
| codec1         | <input type="text" value="g729"/>       | codec2            | <input type="text" value="g711a"/>  | codec3             | <input type="text" value="g711u"/>  |
| codec4         | <input type="text" value="gsm"/>        | codec5            | <input type="text" value="null"/>   | codec6             | <input type="text" value="null"/>   |
| vad            | <input checked="" type="checkbox"/>     | agc               | <input type="checkbox"/>            | aec                | <input checked="" type="checkbox"/> |
| audio frames   | <input type="text" value="2"/>          | g.723.1 high rate | <input checked="" type="checkbox"/> | ilbc payload       | <input type="text" value="98"/>     |
| jitter size    | <input type="text" value="0"/>          | handset in(0-15)  | <input type="text" value="15"/>     | handset out (0-31) | <input type="text" value="20"/>     |
| dual mode      | <input type="text" value="pstn first"/> | dual mode prefix  | <input type="text" value="30"/>     |                    |                                     |

Fig 1.3 Audio Setting

- **codec1:** Set the priority 1 of the audio compression algorithm. The options are **g729**, **g7231**, **g711u**, **g711a**, **gsm**, **ilbc** and **null**.
- **codec2:** Set the priority 2 of the audio compression algorithm. The options are **g729**, **g7231**, **g711u**, **g711a**, **gsm**, **ilbc** and **null**.
- **codec3:** Set the priority 3 of the audio compression algorithm. The options are **g729**, **g7231**, **g711u**, **g711a**, **gsm**, **ilbc** and **null**.
- **codec4:** Set the priority 4 of the audio compression algorithm. The options are **g729**, **g7231**, **g711u**, **g711a**, **gsm**, **ilbc** and **null**.
- **codec5:** Set the priority 5 of the audio compression algorithm. The options are **g729**, **g7231**, **g711u**, **g711a**, **gsm**, **ilbc** and **null**.
- **codec6:** Set the priority 6 of the audio compression algorithm. The options are **g729**, **g7231**, **g711u**, **g711a**, **gsm**, **ilbc** and **null**.

options are **g729**, **g7231**, **g711u**, **g711a** , **gsm**, **ilbc** and **null**.

- **vad**: Enable/disable VAD (voice activity detection).
- **agc**: Enable/disable AGC.
- **aec**: Enable/disable VEC.
- **audio frame**: Set audio frames in RTP package. Minimum is 1 and maximum is 8.
- **g.723.1 high rate**: enable/disable g.723.1 high rate. G.723.1 high rate is 6.3kbps, low rate is 5.3kbps.
- **ilbc payload** : Set the payload type of RTP package whne ILBC codec selected to DTMF delay. The value range is 96-255.
- **jitter size** : Set buffer size of RTP package. The value range is 0-32.
- **handset in**: Set the volume of handset input.
- **handset out**: Set the volume of handset output.
- **Dual mode**: Set this item to enable or disable the PSTN line.
  - **Disable**: With this item selected, PSTN line is disabled.
  - **PSTN First**: This item selected, PA168V FXS gateway will choose PSTN calling first.

- **IP First:** This item selected, PA168V FXS gateway will choose IP calling first.
- **dual modes prefix:** When IP first is set in the dual modes setting, setting switches to PSTN prefix such as 9.

➤ **Dial Plan Settings:**

| Dial Plan Settings |                                     |                   |                          |              |                          |
|--------------------|-------------------------------------|-------------------|--------------------------|--------------|--------------------------|
| use dialplan       | disable                             | dial number       |                          | ddd code     | 10                       |
| idd code           | 86                                  | idd prefix        | 00                       | ddd prefix   | 0                        |
| inner line         | disable                             | inner line prefix | 0                        | call waiting | <input type="checkbox"/> |
| forward number     | 82378801                            | fwd poweroff      | <input type="checkbox"/> | fwd noanswer | <input type="checkbox"/> |
| fwd always         | <input type="checkbox"/>            | fwd busy          | <input type="checkbox"/> | answer       | 30                       |
| use digitmap       | <input checked="" type="checkbox"/> |                   |                          |              |                          |


Fig 1.4 Dial Plan Setting

- **use dialplan:** Set whether to use dial plan or to use dial number by selecting the corresponding item in drop down list.
  - **disable:** Select this item if not to use dial plan or dial number.
  - **enable:** Use dial plan by selecting this item.
  - **dialnum:** Use dial number by selecting this item. With this item selected, please enter the dial prefix into **dial number** field.
  - **prefix:** Use 179XX service by selecting this item.
  - **Hotline:** Use Hotline function by selecting this item. With this item selected, please enter the hotline number into **dial number** field.
- **dial number:** With **dialnum** selected in **use dialplan** drop down list, please enter the dial prefix into this field according to requirement of log

in server. For example, with eTalk card used, enter 00 here.

- **ddd code:** With **enable** or **dialnum** selected in **use dialplan** drop down list, set area code according to E.164 dial rule. For example, Beijing is 10; Shanghai is 21.
- **idd code:** With **enable** or **dialnum** selected in **use dialplan** drop down list, set country code according to E.164 dial rule. For example, China is 86; U.S.A is 1.
- **idd prefix:** With **enable** or **dialnum** selected in **use dialplan** drop down list, set international call prefix according to E.164 dial rule, such as 00.
- **ddd prefix:** With **enable** or **dialnum** selected in **use dialplan** drop down list, set long distance call prefix according to E.164 dial rule, such as 0.

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 **Note** With **dialnum** selected in **use dialplan** drop down list, you can also set dddcode, iddcode, iddprefix and dddprefix according to requirement of system.

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- **innerline:** Enable/disable innerline call by selecting corresponding items from dropdown list.
  - **disable:** Disable innerline call by selecting this item.
  - **enable:** enable innerline call by selecting this item.
- **innerlineprefix:** With **enable** selected in **innerline** dropdown list, please



fill the prefix number to pick up innerline , such as 0.

- **Call waiting:** Enable/disable call waiting by checking/unchecking the box.
- **forward number:** Enter receiving forwarded calls phone number into this field; If PA168V FXS gateway used with modem, with **modem** item selected in **iptype** list box, and then fill ISP number into this field.
- **fwd noanswer:** Forward calls without replying by checking this box. Please enter the phone number of receiving forwarded calls into **fwd number** field.
- **fwd always:** Forward all calls by checking this box. Please enter the phone number of receiving forwarded calls into **fwd number** field.
- **fwd busy:** Forward calls if busy by checking this box. Please enter the phone number of receiving forwarded calls into **fwd number** field.
- **answer:** Enter a number from 0 through 60 to set the entries of the seconds before the phone answers the call auto or forwards the calls.
- **Use digitmap:** Enable/disable digit map by checking/unchecking the box.

## ➤ SIP Protocol Settings:

| SIP Protocol Settings |                                       |                |                                          |                                                       |
|-----------------------|---------------------------------------|----------------|------------------------------------------|-------------------------------------------------------|
| use service           | <input checked="" type="checkbox"/>   | register ttl   | <input type="text" value="60"/>          |                                                       |
| service type          | <input type="text" value="common"/>   | sip proxy      | <input type="text" value="203.93.9.57"/> | domain/realm <input type="text" value="203.93.9.57"/> |
| nat traversal         | <input type="text" value="disable"/>  | nat addr       | <input type="text"/>                     | nat ttl <input type="text" value="30"/>               |
| phone number          | <input type="text" value="82378808"/> | account        | <input type="text"/>                     | pin <input type="text"/>                              |
| register port         | <input type="text" value="1720"/>     | rtp port       | <input type="text" value="1722"/>        | tos <input type="text" value="0"/>                    |
| outbound proxy        | <input type="checkbox"/>              | dtmf           | <input type="text" value="rfc2833"/>     | dtmf payload <input type="text" value="101"/>         |
| prack                 | <input type="checkbox"/>              | super password | <input type="text" value="12345678"/>    | debug <input type="text" value="output"/>             |

Fig 1.5 SIP Protocol Settings

- **use service:** Enable/disable service by checking/clearing this box. To make calls through SIP Proxy Server, please check this box; otherwise, phone can only make IP-to IP calls.
- **register ttl :** IP phone will send a keep-alive registration message to SIP proxy server every “**register ttl**” seconds. The minimum value is 10, maximum value is 65535. Default is 60.
- **service type:** This option is used to accommodate the miscellaneous requirements of the system providers.
  - **Common:** no special requirements
  - **Huawei:** Use Huawei’s system
  - **zte:** Use ZTE’s SIP system
  - **harbour:** Use Harbour’s system
  - **utstarcom:** Use UtstarCom’s SIP system

- **uptech:** Use Uptech's system
- **keimen:** Use Keimen's system
- **mediaring:** Use Mediaring's SIP system
- **italkbb:** Use ItalkBB's SIP system
- **nortel:** Use Nortel's SIP system
- **net2phone:** Use Net2phone's SIP system
- **Fwd:** Free SIP service; please visit [www.freeworlddialup.com](http://www.freeworlddialup.com) for more information.
- **Inphonex:** Free SIP service; please visit [www.inphonex.com](http://www.inphonex.com) for more information.
- **sipphone:** Free SIP service ; please visit [www.sipphone.com](http://www.sipphone.com) for more information.
- **ngtel:** Use NGTEL's SIP system
- **ayctel:** Use Ayctel's SIP system
- **callserve:** Use Callserve's SIP system
- **qmaster:** Use Qmaster's SIP system

- **ringchat:** Use Ringchat's SIP system
  
- **t-online:** Use T-online's SIP system
  
- **sip proxy:** If “**use service**” is checked, please set the URI of SIP proxy server .
  
- **domain:** Set the domain name of the SIP proxy server .
  
- **nat traversal:** When the IP phone with private IP address need communicate with other IP phones in a different LAN or on Internet, please select an item from dropdown list.
  - **disable:** Select this item when the sip proxy server and IP phone in the same LAN, or the sip proxy system supports the IP phone working behind the LAN.
  
  - **enable:** When the system does not support IP phone working behind the LAN, please select this item to search public IP address of the NAT device. With this item selected, “**nat addr**” field will be activated. Besides, port mapping (port forwarding) needs to be properly set up on NAT device.
  
  - **stun:** Select this item with Stun server used according to requirement of system. With this item selected, **nat addr** field is activated.

- **nat addr:** When “**nat traversal**” is set to “**enable**”, please put the domain name of the servers ( These web server helps to find out the public IP of the NAT device) into “**nat addr**”, such as [www.whatismyip.com](http://www.whatismyip.com).

When “**nat traversal**” is set to “**stun**”, please put the URI of the stun server into “**nat addr**”, in the format as “domain name/IP address : service port”.

The default service port for stun is 3478.

- **nat ttl:** When IP phone sit behind a NAT device, it will send packets to server every “**nat ttl**” seconds to keep the port mapping on the NAT device alive. “**nat ttl**” is an integer between 10 and 65535, default value is 20.
- **phone number:** The local phone number or username of this phone, usually is allocated by system.
- **account:** With SIP system which requires authentication, please put the username/account into this field.
- **pin:** With SIP system which requires authentication, please put the password into this field.
- **register port:** The local UDP port registered with server to accept incoming handshaking messages. The default port number is 5060.
- **rtp port:** RTP port is the port transferring and receiving voice packets

using UDP protocol. This is an even number between 1024 and 65535.

- **tos:** Set the TOS field of the IP header of the RTP packets. The bigger this value is 0, the higher priority the packet is 224.
- **outbound proxy :** Enable/disable Outbound proxy by checking/clearing this box. If the system has an Outbound Proxy, please set the URI of the Outbound proxy into “**sip proxy**” and set the domain name of SIP proxy server into “**domain**” . The default service port is 5060.
- **dtmf:** Set DTMF signal sending way by selecting **inband audio, rfc 2833** and **sip info** from list box.
- **dtmf payload :** When DTMF select **rfc 2833**.This parameter can be used indicating type of RTP payload type. The value can be use integer 96-101.
- **prack:** Enable/disable support pre-ack(RFC3262) by checking/clearing this box.
- **super password:** Set the super password of the phone.(Default super password is 12345678).
- **debug:** Set the debug level of the phone.
  - **disable:** Disable output the debug message by selecting this item.
  - **output:** Output the operation information to the window, such as

register, input by selecting this item.

- **output all:** Output all debug information and data in test window by selecting this item.
- **remote debug:** Save the debug information in SDRAM of IP phone by selecting this item.
- **no check:** Disable checking firmware tags when upgrading. This is not suggested, because it will increase the risk of upgrading the wrong firmware into the phone.

➤ **Other settings:**

| Other Settings                               |                                                                    |                                             |                                      |                                                 |                      |
|----------------------------------------------|--------------------------------------------------------------------|---------------------------------------------|--------------------------------------|-------------------------------------------------|----------------------|
| password                                     | <input type="text" value="1234"/>                                  | upgrade type                                | <input type="text" value="disable"/> | upgrade addr                                    | <input type="text"/> |
| sntp ip                                      | <input type="text" value="0.0.0.0"/>                               | use daylight                                | <input type="checkbox"/>             |                                                 |                      |
| timezone                                     | <input type="text" value="(GMT+08:00)Beijing, Hong Kong, Urumqi"/> |                                             |                                      |                                                 |                      |
| <input type="button" value="Save Settings"/> |                                                                    | <input type="button" value="Address Book"/> |                                      | <input type="button" value="Upgrade Firmware"/> |                      |

Fig 1.6 Other Setting

- **password:** Set the ordinary password of the phone. (Default is 1234).
- **upgradetype:** Set the auto-upgrade type of the PA168V FXS gateway.
  - **disable** : Disable auto-upgrade .
  - **all:** pa168V will find the matching firmware binary file and configuration file of the hardware type only at the upgrade server specified by **upgradeaddr** item .
  - **mac:** pa168V will find the matching firmware binary file and configuration file of the MAC address only at the upgrade server

specified by **upgradeaddr** item .

- **ppp id:** pa168V will find the matching firmware binary file and configuration file of the ppp id only at the upgrade server specified by **upgradeaddr** item .
- **account:** pa168V will find the matching firmware binary file and configuration file of the account only at the upgrade server specified by **upgradeaddr** item .
- **phonenumber:** pa168V will find the matching firmware binary file and configuration file of the phone only at the upgrade server specified by **upgradeaddr** item .
- **upgrade addr:** Put URL of upgrade server supplying upgrade program and configurations into this field , URL rules is below:  
  
HTTP://IP address or domain name: port number  
  
FTP: //IP address or domain name: port number  
  
TFTP: //IP address or domain name: port number
- **sntp ip:** Fill IP address of time server here. When network works without Internet, Fill special address IP 255.255.255.255 here.
- **use daylight:** Enable/disable daylight.
- **timezone:** Select correct time zone in list box.



When debug set as 0[disable], and if input ordinary password (default one is 1234), the following page will pop up after clicking . And only those parameters can be modified.

| Network Settings                             |                                                                    |                                             |                                            |                                                 |                                                |
|----------------------------------------------|--------------------------------------------------------------------|---------------------------------------------|--------------------------------------------|-------------------------------------------------|------------------------------------------------|
| iptype                                       | <input type="text" value="static"/>                                | ppp id                                      | <input type="text"/>                       | ppp pin                                         | <input type="text"/>                           |
| local ip                                     | <input type="text" value="192.168.1.100"/>                         | subnet mask                                 | <input type="text" value="255.255.255.0"/> | router ip                                       | <input type="text" value="192.168.1.254"/>     |
| dns                                          | <input type="text" value="202.106.46.151"/>                        | dns2                                        | <input type="text" value="202.96.128.68"/> | mac                                             | <input type="text" value="00-09-45-0a-45-2e"/> |
| Audio Settings                               |                                                                    |                                             |                                            |                                                 |                                                |
| codec1                                       | <input type="text" value="g729"/>                                  | codec2                                      | <input type="text" value="g711a"/>         | codec3                                          | <input type="text" value="g711u"/>             |
| codec4                                       | <input type="text" value="gsm"/>                                   | codec5                                      | <input type="text" value="null"/>          | codec6                                          | <input type="text" value="null"/>              |
| vad                                          | <input checked="" type="checkbox"/>                                | agc                                         | <input type="checkbox"/>                   | aec                                             | <input checked="" type="checkbox"/>            |
| audio frames                                 | <input type="text" value="2"/>                                     | g.723.1 high rate                           | <input checked="" type="checkbox"/>        | ilbc payload                                    | <input type="text" value="98"/>                |
| jitter size                                  | <input type="text" value="0"/>                                     | handset in(0-15)                            | <input type="text" value="15"/>            | handset out(0-31)                               | <input type="text" value="20"/>                |
| dual mode                                    | <input type="text" value="pstn first"/>                            | dual mode prefix                            | <input type="text" value="30"/>            |                                                 |                                                |
| Dial Plan Settings                           |                                                                    |                                             |                                            |                                                 |                                                |
| use dialplan                                 | <input type="text" value="enable"/>                                | dial number                                 | <input type="text" value="16900"/>         | ddd code                                        | <input type="text" value="10"/>                |
| idd code                                     | <input type="text" value="86"/>                                    | idd prefix                                  | <input type="text" value="00"/>            | ddd prefix                                      | <input type="text" value="0"/>                 |
| inner line                                   | <input type="text" value="enable"/>                                | inner line prefix                           | <input type="text" value="0"/>             | call waiting                                    | <input checked="" type="checkbox"/>            |
| forward number                               | <input type="text" value="95963"/>                                 | fwd poweroff                                | <input type="checkbox"/>                   | fwd noanswer                                    | <input checked="" type="checkbox"/>            |
| fwd always                                   | <input checked="" type="checkbox"/>                                | fwd busy                                    | <input type="checkbox"/>                   | answer                                          | <input type="text" value="30"/>                |
| use digitmap                                 | <input type="checkbox"/>                                           |                                             |                                            |                                                 |                                                |
| Other Settings                               |                                                                    |                                             |                                            |                                                 |                                                |
| password                                     | <input type="text" value="1234"/>                                  | upgrade type                                | <input type="text" value="disable"/>       | upgrade addr                                    | <input type="text"/>                           |
| sntp ip                                      | <input type="text" value="255.255.255.255"/>                       | use daylight                                | <input type="checkbox"/>                   |                                                 |                                                |
| timezone                                     | <input type="text" value="(GMT+08:00)Beijing, Hong Kong, Urumqi"/> |                                             |                                            |                                                 |                                                |
| <input type="button" value="Save Settings"/> |                                                                    | <input type="button" value="Address Book"/> |                                            | <input type="button" value="Upgrade Firmware"/> |                                                |

Fig 1.7 Setting Page using ordinary pin with Debug set as 0 [disable]

- **Save Settings:** Click this button to save the configuration and the phone will reboot. Once the phone reboots successfully, the new configuration is effective.

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**Note** After entering set page, if **save settings** button is not clicked within 10 minutes, then when you click it again, the index page asking for pin will pop up again. Please input the password again to enter the set page and then click **save settings** button to confirm the modification.

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- **Adress Book:** Click this button to open the speed dial settings page.

Please refer to Fig 1.7. In this page, you can set and save the speed dial number by typing the name into the **Name** field and then entering the corresponding number following the name. For example, input Jack in Name field following 001, and then input 5989426454 into Phone number field. Then Jack's number 5989426454 is saved in phone book. Then please click **Save/Back** button. In normal state, you can use speed dial to call numbers saved in the phone book.

| Phone Book |      |              |     |       |              |
|------------|------|--------------|-----|-------|--------------|
| No.        | Name | Phone Number | No. | Name  | Phone Number |
| 001        | Jack | 5989426454   | 002 | Allen | 192.168.1.56 |
| 003        |      |              | 004 |       |              |
| 005        |      |              | 006 |       |              |
| 007        |      |              | 008 |       |              |
| 009        |      |              | 010 |       |              |

Fig 1.8 Phone Book Illustrations

- **Upgrade Firmware:** Click this button to update the program , the settings and the digitmap of the PA168V FXS gateway.

*Reserves the right to make changes in technical and product specification  
without prior notice.*

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