

PX0422 & PX0421 User Manual



Notice:

This Manual is fit for both PX0422 and PX0421 ,and there only two main difference between PX0422 and PX0421—

- 1. PX0421 only supports maximum 20 accounts***
- 2. PX0421 doesn't provides USB port***

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Chapter 1 PX0422 Hardware Description

Package Contents: Please confirm that the following items should be included in the package.

Item	Unit	Quality	Description
PX0422 IP-PBX	Set	1	PX0422 IP-PBX
Power Supply		1	Power Adaptor Input:AC100-240 , Output :DC12V

1.1 Product Appearance



Figure 1.1 PX0422 IP-PBX Appearance

1.2 Physical Specifications

1.2.1 Physical Dimensions

Item	Description
Dimensions	441×240×44mm
Input Voltages	DC 12V , 1000mA
Maximum Power	8 W
Operating Temperature	0°C~50°C (32°F~122°F)
Storage Temperature	-10°C~65°C (14°F~149°F)
Operating Humidity	5%~90% (Non-condensing)
Storage Humidity	0%~95% (Non-condensing)
Unit Weight (with cover and power adaptor)	2 Kg

Table 1.1 PX0422 IP-PBX Physical Dimensions

1.2.2 Connection Interface



Figure 1.2 PX0422 IP-PBX Back Panel

PX0422 Provides following interfaces: 2x FXO ports, 2x FXS ports, 1 x LIFE-escape port, 1 xHost USB port, 2 x Ethernet Ports and 1 x Power Supply connector.

1.2.2.1 FXO ports

Connect regular PSTN line (Wall Socket Line) to any of FXO ports at the rear panel. There are two FXO ports for PX0422, it can be used as trunk line or connected to traditional PBX. The users of IP PBX can make or receive calls through those ports.

1.2.2.2 LIFE-1 port

Connect regular Phone to the LIFE-1 port. It is used as a life line for IP-PBX FXO-1, in case of IP-PBX losses power, FXO-1 and LIFE-1 will be directly connected. A call to FXO-1 can be picked up via LIFE-1 port by a regular phone or a call can be made via the FXO-1 line.

1.2.2.3 Ethernet ports

PX0422 provides with 2 automatic 10/100M Ethernet (WAN and LAN) ports.

WAN port: It is a default Internet connection port. It supports DHCP Client, PPPoE/ Dynamic DNS (DDNS), and Static IP address configuration.

LAN port: Connect IP-PBX to company network such as switch or hub. LAN port can not be used to connect Internet.

LAN port supports either Static or Dynamic IP addresses and can also enable DHCP server.

SIP terminal can register to IP-PBX via LAN or WAN port, PX0422 IP-PBX can also be used as Internet Router with NAT function.


1.2.2.4 USB port

Connect a standard USB storage device to the port. The USB disk can be used

for voice mail files storage, system firmware upgrade or system data backup etc.

1.2.2.5 Power Supply

Connect power adaptor to IP-PBX. The specification of power adaptor is: AC Input 100-240V automatic, DC Output 12V DC at 1 Amps Maximum.

 Warning: Please do not attempt to use a different power adaptor. Using other power adaptor may damage the IP-PBX.

1.2.3 LED Status and System Reset



Figure 1.3 PX0422 IP-PBX Front Panel

As shown in Figure 1.3 , PX0422 front panel provides LED and 1x Reset Button. LED display status of Power Supply, PBX, and FXO ports, Please refer to Table 1.2 for explanation of LED status.

LED Display	Function	Status	Description	Note
PWR	Power Status	ON	Power on	
		OFF	Power off	
ACTIVE	PBX Status	ON	PBX Normal Operating	
		OFF	PBX Abnormal Operating	
		Flashing	Call Occurred	
ALARM		ON	N/A	
		OFF		
VPN		ON	N/A	
		OFF		
FXO (1-2)	FXO Status	ON	Valid FXO Module/Port	
		OFF	Invalid FXO Module/Port	
		Flashing	Corresponding port is using	
FXS (3-4)	FXS Status	ON	Valid FXS Module/Port	
		OFF	Invalid FXS Module/Port	
		Flashing	Corresponding port is using	
LAN(10/100M)	LAN Status	ON	100M connection	
		OFF	10M connection/No connection	
		Flashing	Data transfer	
WAN(10/100M)	WAN Status	ON	100M connection	
		OFF	10M connection/No connection	
		Flashing	Data transfer	

Table 1.2: PX0422 Front Panel LED Status explanations

System Reset Button

When press this button, all data are cleared and restored to the factory default values and IP-PBX will reboot. Please refer to section 3.3.7 for details.

⚠️ Note: RESET will CLEAR ALL user DATA of the IP-PBX. Please use it with caution!

Chapter 2 PX0422 PBX Features

PX0422 IP PBX is an embedded communication server which could be used as the portal server for new generation of 'Converged Communication' or 'Unified Communication' for small-medium enterprises (SME). The PX0422 IP-PBX intergraded with rich feature set of high-end PBX telephone systems, plus the convenience and cost saving advantages of Voice over IP. It is so easy to configure that a fully working system can be set up in minutes. The advantages of PX0422 embedded IP-PBX is simple, reliable, easy to manage, high integration of functions, and OUTSTANDING cost-performance.

PX0422 is based on the Session Initiation Protocol (SIP, RFC3261), While it will work with any SIP compatible IP phone/gateway. No matter you are looking for a better cost-effective solution to handle your inter-branches communication or company's long distance or integrate your web site, company communication system with your voice network, look no further, PX0422 IP-PBX offers you with the best return on investment (ROI) and communication solution

2.1. Key Industry Standards Support

- SIP Proxy/Register/Application Server
RFC3261 (RFC3262, 3263, 3265, 3325, 3515, 3581, 3891, 2976, 3326, 4235, 4240)
- SDP (RFC2327, 4566, 3264, 4574, 4796)
- RTP (RFC1889, 3550 3984)
- DTMF: In-Band/Out-of-Band (RFC2833)/SIP INFO
- HTTP/Digest Authentication (RFC2617)
- MWI (Message Waiting Indication) RFC3842
- Presence/IM (RFC2778, 3858, 3863, 4480)
- Voice Codec: (TransCoding) G.729A, GSM, Speex, G.711U, G.711A; (Pass Through) iLBC, G.723, Video Codec: H.263, H.264, Mpeg4 [Pass Through]
- VPN: PPTP/L2TP Server , Open VPN Client
- Enum (RFC2916 , 3761, 3764)
- PPPoE (RFC2516)
- Dynamic DNS (RFC2136, 2137), DHCP (RFC2131)

2.2. PX0422 Features Set

2.2.1 Accommodation for Network Conditions of SME

- Two Ethernet RJ45 (LAN/WAN) 10M/100M Network Ports, Router functions.
- Supports DMZ Deployment
- DHCP Client, PPPoE (ADSL), or Static IP
- Supports Dynamic DNS (DDNS) Registration
- Open VPN Client and PPTP VPN server
- Supports SIP NAT
- DHCP Server

2.2.2 QoS Control Functions

- Compliant with Tag of VLAN, 802.1P/802.1Q
- Supports Type of Service (TOS/DSCP)
- Jitter Buffer and CNG for better voice quality
- Echo Cancellation

2.2.3 External Trunk Connections

- SIP Trunk, Connection with ITSP(Internet Telephone Service Provider)
 - Outgoing SIP calls
 - Incoming calls with multiple registrations; every extension can have different DID number from different ITSP.
- FXO Trunk
 - Incoming or outgoing calls via FXO ports.
- Supports ENUM Trunk (Optional)

2.2.4 Flexible and Manageable Dial Plans or Calling Route

- Use a prefix to select different route (ITSP, FXO, Inter-PX0422) to make call.
- Least Cost Routing (LCR) for better cost management
- Trusted host function for better security and multi-locations interconnection
- Supports grouping of extensions

2.2.5 Typical PBX Features

- Basic extension call functions
- Create or Remove an Extension
- Call Forward (Always, On Busy, No answer, Offline)

- Call Transfer / Call on Hold
- Call Park
- Follow Me
- Call Pick-Up
- Extension acts as an operator
- Auto Attendant
- Do not Disturb (DND)
- Call Restricted
- Music on Hold or Personalized Greeting
- Call Detail Records (CDR), Supports customized calling rate
- T.38 Fax (Pass Through)
- Supports Voice Mail with personal greeting (with MWI)
- Caller ID (FXO ports support FSK and DTMF Caller ID)

2.2.6 Advanced IP-PBX Features

- Supports Automatic Call Distribution
- Supports Conference Bridge (supports 6 to 12 participants per conference)
- Video Communication (Supports H.264 /Pass Through)
- Tight up an extension with mobile phone
- Supports Group ringing
- Supports Customized IVR Call Flow (XML describe IVR)
- Presence/Instance Messaging
- Built-in Push2Talk Function (Microsoft IE/Firebox Plug-In) Supports Web800

2.2.7 Additional Features when used with DGP Series IP Phone

- Auto-provisioning of IP Phone
- Group IP audio broadcasting
- IP audio broadcasting /Talk-back

2.2.8 Additional Management Software for PC Windows

- Extension status display
- Session monitor and recording(Record and store to PC with admin privileges)
- Supports IP PBX Voice Conference management functions


2.2.9 Management and Maintenance

- Built-in Web interface for management
- User self-services with Web interface
- Web based system upgrade
- Hardware Reset button to change system back to default factory setting

Chapter 3 PX0422 Installation guide

A step-by-step instruction for quick setting up

3.1 Prepare IP-PBX Installation

 Note: In order to avoid any damage which is due to improper setup the product, please read this chapter carefully.

3.1.1 Safety Usage Caution

Please follow the below safety instructions to ensure the IP-PBX operates safely and properly.

- Use caution when using electricity
- Keep IP-PBX a distance from wet, humid place or hot object
- Ask experienced/trained technical personnel to do the installation, configuration, and maintenance of IP-PBX.
- Use caution when installing or modifying telephone/network cable
- Do not plug or up-plug a cable with power on.
- It is recommended to use an UPS with IP-PBX

3.1.2 Environmental Requirements

3.1.2.1 Temperature/humidity

Temperature and humidity must be maintained in operating range for mechanical room. If ambient relative temperature levels too high, it will cause system from corrosive problems. If ambient relative humidity levels over operating range, it will cause failures or temporary malfunctions caused by intermittent interference from static discharges. These problems will also shorten the life time of IP-PBX.

The Relative Operating Temperature is: 0°C~50°C (32°F~122°F) and the Relative Operating Humidity is : 5%~90% (non-condensing).

3.1.2.2 Pollution and Ventilation

IP-PBX system can be affected by dust and microscopic particles in the

mechanical room. Dust may blanket electronic components causing premature failure due to excess build up on the components. Other failures can also be caused by metallic components. It is not only can cause failures of the equipment, but also shorten the life time of IP-PBX. Use every effort to ensure that the environment is as dust and particulate free as possible and keep IP-PBX at ventilated location.

3.2.2.3 Electrical Disturbances

Although IP-PBX has been tested to operate over electrical disturbances, damage will occur if these ranges are exceeded. It is recommended that to protect the system from source of electrical disturbances such as:

- Keep away from high power radio, radar or high frequency source
- Use a dedicated power supply to protect from electrical disturbances

3.2 IP-PBX Installation

In order to finish the installation, the IP-PBX should be placed at the site which could meet the environmental requirements of section 3.1.2 and to connect all kinds of the cables or wires.

3.2.1 Network Connecting

PX0422 IP-PBX provides two 10/100M Ethernet ports of RJ45 specification. Please to connect and configure WAN/LAN ports as the below rules. If only one Ethernet port is needed, Please use and configure WAN port.

3.2.1.1 Connect IP-PBX to Internet

- WAN port: Connect to the Internet via ADSL/PPPoE

Connect IP-PBX's WAN port to the Ethernet port of ADSL modem with standard RJ45 Cable. When configuring WAN port, enable PPPoE and set authorized usernames and passwords correspondingly.

Generally, ADSL user was assigned a dynamic global IP address. DDNS (Dynamic DNS) should be enabled to map the dynamic IP address to a domain name. So the IP-PBX could be located from Internet through the domain name.

- WAN port: connect directly to the Internet, getting dynamic address through DHCP. Connect IP-PBX's WAN port to the Internet switch with standard RJ45 Cable. And to enable IP-PBX WAN port's DHCP client function. In order to be located from Internet, to enable DDNS is necessary.
- WAN port: Connected directly to the Internet, with static IP address setting. Connect IP-PBX's WAN port to the Internet switch with standard RJ45 Cable. And to set the static IP address to WAN port. The IP-PBX could be located from Internet by the static IP address or domain name.
- WAN port: Connect to DMZ switch (The IP-PBX is deployed in DMZ zone) In some case of the IP-PBX should be deployed in DMZ zone, the IP-PBX's WAN port is used to connect to the switch, and DMZ setting should be enabled. The WAN port should be set both DMZ private IP address and the mapped global IP address. The IP-PBX could be located through domain name or the DMZ mapped global IP address.
- LAN port: Connect to the company LAN switch Connect IP-PBX's LAN port to the company LAN switch with standard RJ45 Cable, and set private IP address to the LAN port. Local SIP terminal could use this private IP address (as the server address) to register to IP-PBX.

3.2.1.2 IP-PBX ONLY be configured with private IP address

In this case, ONLY ONE network port needs to be used. The IP-PBX's WAN port should be connected to switch/Hub. Then a private IP address should be configured to the WAN port.

The IP-PBX's LAN port could be left blank.



Must use WAN port to connect to Internet



If ONLY ONE network port is needed, the WAN port should be used



Use Crossover cable for directly connection between PC and Ethernet ports of PBX

3.2.2 FXO Ports

PX0422 provides 2 x FXO ports, they be used to connect regular PSTN lin(Wall Socket Line), traditional PBX extension(s). Either use any number of the two FXO ports or use all of the FXO ports for regular PSTN line access.

PX0422 provides other 2 x FXS prots to, they be used to connect Telephones directly

3.2.3 LIFE -1 Port

LIFE-1 is used to connect a regular telephone for FXO-1's life port, in case of IP-PBX losses power, the LIFE-1 and FXO-1 are directly connected, so people can still use the regular telephone to make or receive calls through FXO-1 line.

3.2.4 USB Host Port (Optional)

The embedded IP-PBX has limited storage space on board. It is recommended to use an external storage for additional data storage (i.e. Voice mail files). Simply just plug-in an USB disk to expand the IP PBX's storage.

3.2.5 Connect power adaptor, and power up the IP-PBX

Please ensure that IP-PBX has enough space for heat, been properly mounted and the input power voltage is within proper arrange.

Double check all the connected ports/cables.

Turn on the power and check the LED, The PWR and PBX LED on front panel should be ON.



Note: Turn off the power supply when to plug in/ pull out cable into/from

IP-PBX's ports

3.3. IP-PBX System Configuration

3.3.1 Default Factory Setting

The PX0422 IP-PBX contains an Http server, and support web base administrator GUI, and user self-services GUI. The administrator could use browser (Microsoft IE) to setup or configure the IP-PBX.

The default IP addresses are, WAN: 10.0.0.1, LAN: 192.168.1.1. The administrator GUI could be reached via **http://[IP-PBX address]**. The default administrator account is 'admin' with password of '123456'.

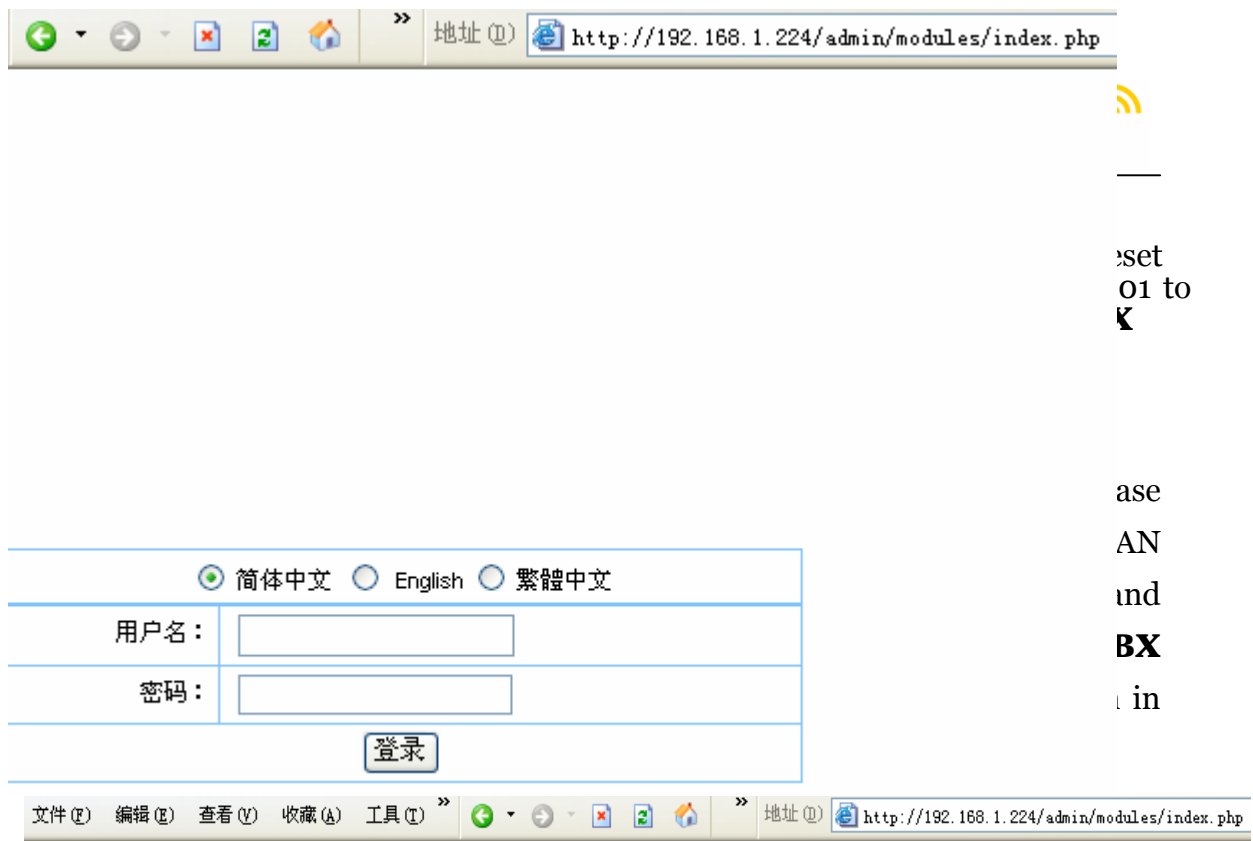
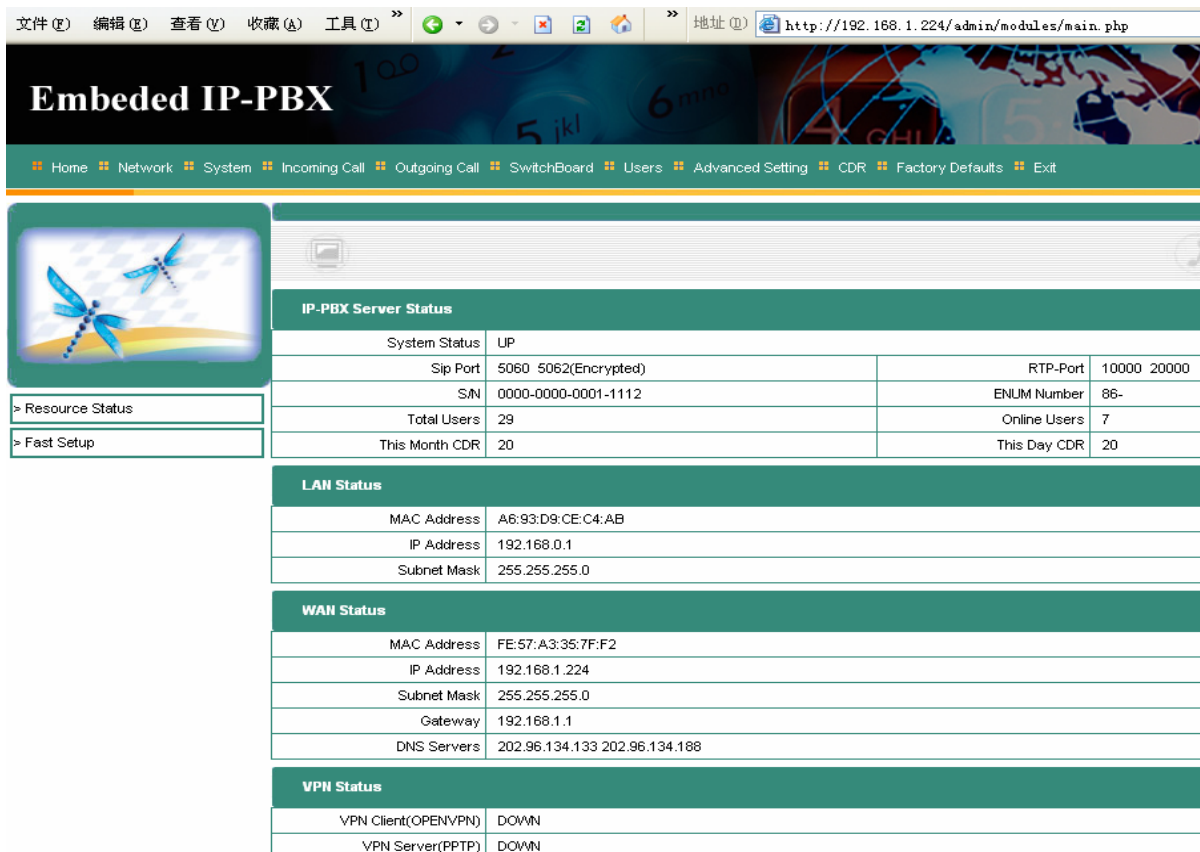


Figure 3.1 PX0422 IP-PBX Administrator GUI Login Screen

Enter administrator's username and password (default is admin/123456), you will enter into the system configuration screen (As shown in Figure 3.2).



IP-PBX Server Status

System Status	UP		
Sip Port	5060 5062(Encrypted)	RTP-Port	10000 20000
S/N	0000-0000-0001-1112	ENUM Number	86-
Total Users	29	Online Users	7
This Month CDR	20	This Day CDR	20

LAN Status

MAC Address	A6:93:D9:CE:C4:AB
IP Address	192.168.0.1
Subnet Mask	255.255.255.0

WAN Status

MAC Address	FE:57:A3:35:7F:F2
IP Address	192.168.1.224
Subnet Mask	255.255.255.0
Gateway	192.168.1.1
DNS Servers	202.96.134.133 202.96.134.188

VPN Status

VPN Client(OPENVPN)	DOWN
VPN Server(PPTP)	DOWN

Figure 3.2 PX0422 IP-PBX Administrators GUI

Through the administrator GUI, The administrator could intuitively manage and configure PX0422. The management items include "Home", "Network" (LAN, WAN, DHCP, DDNS, VPN etc.), "System" (Services Port, Rate setting, DMZ, Trust Host, Music On Hold, "hot lines", etc.), "Incoming Call" (calls from FXs, calls from FXo), "Outgoing call" (outgoing calls via FXO, outgoing calls via SIP), "Switchboard", "Users" (add user/users, Bindings and Delete user, information update, function setting: such as call forward, hunting and Voice mail etc.), "Advanced Setting" (ACD, Queue setting, Conference Room, Upload XML File, Generate P2T List talk), "Call Detail Report (CDR)", "Factory default", etc.

3.3.3 Network

After login as administrator, you can configure IP address for IP-PBX. If both (LAN/WAN) Ethernet ports of IP-PBX are used then it is necessary to configure both ports, otherwise, you only need to configure WAN port which is connected to company's LAN.

- WAN Port Configuration

From the main menu, select "WAN Setting" from "Network Configuration" option. Refer to section 3.2.1; there are several different cases to configure WAN port: DHCP, Static IP, DMZ and PPPoE.

DHCP: Set IP-PBX WAN port to obtain IP automatically via DHCP.

Static IP: To configure the IP-PBX WAN port with a predefined IP address, Subnet Mask, Gateway and DNS etc.

DMZ: Set DMZ private IP address and the mapped global IP address.

PPPoE: Select “PPPoE” mode and fill-in the PPPoE username and password.

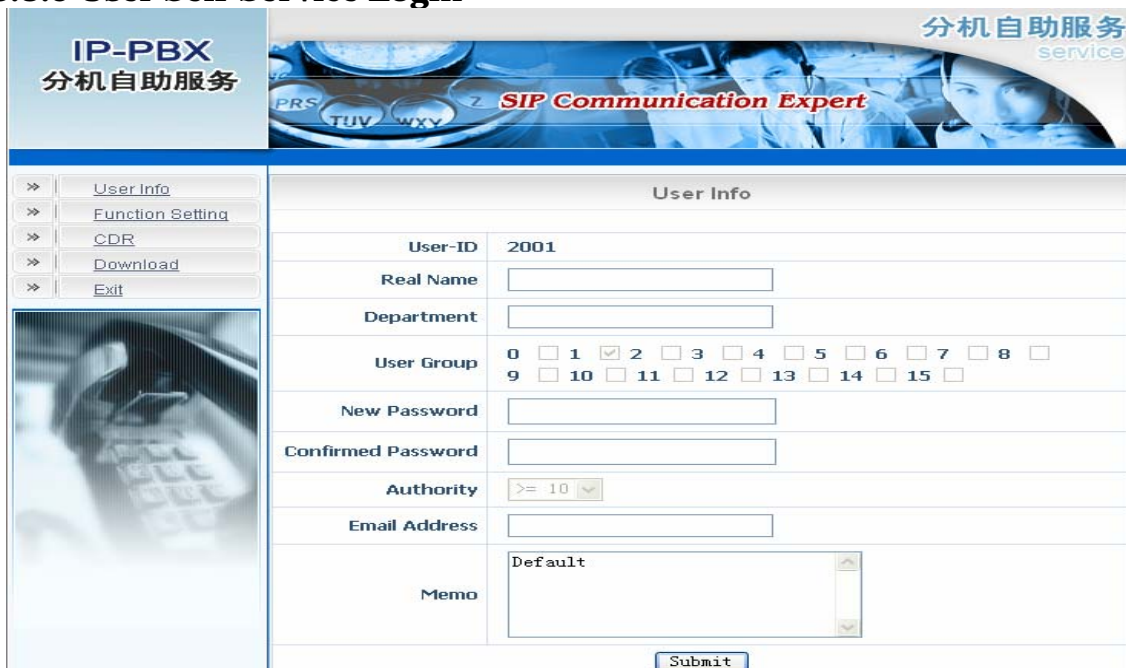
- LAN Port Configuration

From the main menu, select “LAN Setting” from “Network Configuration” option. The LAN port is used for SIP terminal device to connect IP-PBX from company’s LAN. It is necessary to correctly setup IP address and Subnet Mask. After changing the IP address, the new settings won’t take effect until the IP-PBX is restarted.

3.3.4 Create and Manage User Account

IP-PBX has preset 10 demo user accounts: 2001 to 2010 with password as “123456”. User can use these accounts or modify/delete account information. Using the Web based GUI, system administrator can create, modify or delete an user account from “User Management”, The “User Management” includes the sub-items as: ‘Add user’, ‘Add Users’, ‘User Binding’ (when a call is received, it will ring on both user and the banded number), ‘Remove User’, ‘User Update’, ‘User Function Setting’ (Call Forward, Follow Me, Voice Mail, etc.), ‘All User List’, ‘Online User List’, etc.

3.3.5 User Self-Service Login



User Info	
User-ID	2001
Real Name	<input type="text"/>
Department	<input type="text"/>
User Group	<input type="checkbox"/> 0 <input type="checkbox"/> 1 <input checked="" 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"/> 10 <input type="checkbox"/> 11 <input type="checkbox"/> 12 <input type="checkbox"/> 13 <input type="checkbox"/> 14 <input type="checkbox"/> 15
New Password	<input type="text"/>
Confirmed Password	<input type="text"/>
Authority	>= 10
Email Address	<input type="text"/>
Memo	Default

Figure 3.3 PX0422 IP-PBX Self-Service Web GUI

First, you need to confirm that your PC is able to connect to IP-PBX. Enter “**http://[IP-PBX address]**” in your browser address field then you will find the login screen as shown in Figure 3.1. Enter user’s name and password (such as 2001/123456); you will enter into the Self-service GUI (As shown in Figure 3.3).

Through the Self-services GUI, the end-user can easily to view or update account’s password, personalized greeting, function setting, call detailed records (CDR), etc.

3.3.6 Configure SIP User Device and Experience the First Call

PX0422 IP-PBX is fully supporting and compatible with standard SIP Terminal, include kinds of SIP based IP Phone (audio/video/IM...), ATA device/FXS Gateway, FXO Gateway, etc.

Make sure that SIP terminal could access to IP-PBX, Configure SIP terminal Parameters of “SIP Server”, “SIP Proxy” or “Register Server” with IP-PBX’s IP address or domain name. The SIP service port should be set to 5060 (default). Using the preset or new User account (username/password) to configure SIP terminal, the IP-PBX user registration expired time is 3600 second by default, so the registration period of SIP terminal was recommend to be set less than 1800 seconds.

PX0422 IP-PBX could support G.729A, GSM, Speex, G.711A, G.711U etc. codec, and has rich features set. Please refer to related IP-PBX or SIP terminal document to correctly configure other parameters of SIP user device.

After finish the configuration and restart the SIP terminal, you can check if it could successfully register: Login IP-PBX administrator GUI, Click “User Management”, Select “Online User List”, to verify that device has already registered into IP-PBX.

If you have two SIP user devices setup, a call can be made between the two SIP terminals, which will be good experience.

3.3.7 Reset to Factory Setting

If you have lost control to the IP-PBX, such as, forgetting the administrator’s password or IP address of IP-PBX, the jumbled system setting, etc. ‘Reset to Factory Setting’ will save you from the helpless status.

Please take the following steps to restore factory setting. It will take about 5 minutes to complete the reset process.

1. Keep pressing down 'RESET' button while Power on the IP-PBX,
2. Wait all the lights flash 3 times to release RESET button
3. Wait the entire front panel LED flashing 3 times again
4. The IP PBX now will restart

Warning: RESET will REMOVE all customized configuration data of the IP

