

ARTDio

Intelligent Communication

IPF2002PoE User's Manual

V1.0 Version



www.artdio.com.tw

Safety Instructions

- Do not attempt to service the product by yourself. Any servicing of this product should be referred to qualified service personnel.
- To avoid electrical shock, do not put your finger, any pin, wire, or other metal objects into the vents and gaps.
- To avoid accidental fire or electrical shock, do not twist power cord or place it under heavy objects.
- The product should be connected to a power supply of the type described in the operating instructions or as marked on the product.
- To avoid hazard to children, dispose of the product's plastic packaging carefully.
Please read all the instructions before using this product.

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I . Product Features

The ArtDio IPF2002PoE is the latest generation of Enterprise IP Phone that supports SIP (Session Initiation Protocol) , the innovative technology and excellencies in engineering deliver the best voice quality and multiple control functionality.

1.1 Software Features

- Support SIP v1.0 (RFC 2543),SIP v2.0(RFC 3261),TCP/UDP/IP, RTP/RTCP, HTTP,ICMP,ARP/RARP,DNS,DHCP (include DHCP client and DHCP server) ,SNTP,PPPoE,STUN,TFTP protocols.
- Support multiple audio codecs, including G.711 (64k bit/s, PCM), G.723.1 (6.3k / 5.3k bit/s), G.726 (16k / 24k / 32k / 40k bit/s, ADPCM), G.729A and G.729B .
- Support VAD (Voice Activity Detection),CNG (Comfort Noise Generation),LEC (Line Echo Cancellation),Packet Loss Compensation and Adaptive Jitter Buffer control.
- Support standard calling functions, such as Caller ID Display and Block,Call Waiting,Call Hold,Call Transfer (attended /blind),Call Forwarding and 3-way Conference.
- Support in-band and out-of band DTMF (RFC2833) and SIP INFO.
- Support for Layer 3 QoS (Tos Field) settings.
- Support HTTP1.1 website settings,MD5 For SIP certification (RFC2069/RFC2617) , to ensure security level.
- Support up to 3 SIP accounts,supports Outbound Proxy and up to 11 media channels concurrently.
- Support configuration settings using phone keypad, through the website, Console control and Telnet settings, or provide automated provisioning by downloading encrypted configuration file via HTTP/TFTP for enterprise users.
- Built-in different ring tones allow for user-customization on ring tone settings.
- Support firmware upgrade via HTTP or TFTP/FTP.

1.2 Hardware Features

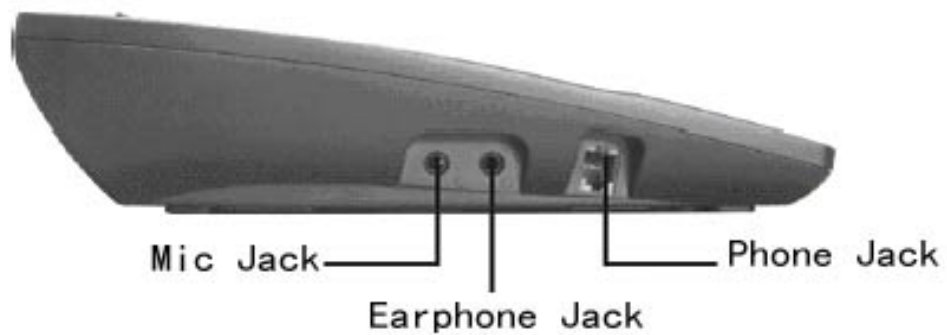
- 2 x RJ-45 10/100M Base-T Ethernet ports, which enable to connect to WAN or LAN settings.
- MIC & Line-Out jack,support headset which will auto switch to headset when plugged in.
- Support functions of Speakerphone, Redial, Incoming/Dialed Call, Volume up and down, address book, Call Transfer, 3-way Conference, DND (Do-Not-Disturb), Microphone Mute
- Phone keypad supports switching between 2 lines, and 10 speed dial keys (0~9) .

1.3 Product Overview

1. Phone Front View



2. Phone Side View



3. Phone Rear View



Note: You also can use a power adaptor with rated 9Vdc @ 1A output, center positive for non-PoE environment.

II. INSTALLATION

2.1 Package Content

- ◆ 1 x IPF2002PoE IP Phone
- ◆ 1 x handset
- ◆ 1 x power adapter(Optional)
- ◆ 1 x RJ-45 Cable
- ◆ User' s Guide

2.2 Hardware Installation

2.2.1 Installation without PSE Router

As a PD (powered device) IPF2002PoE supports IEEE 802.3af Power-over-Ethernet industrial standard, which allows powering from a PSE (power sourcing equipment) router or equipment. You can only connect WAN or LAN interface of IPF2002PoE with PSE Router directly, shown as following figure:



2.2.2 Installation with IP Router

You also can use a power adaptor with rated 9Vdc @ 1A output, center positive for non-PoE environment. If there is IP router in use, please connect one end of RJ-45 network cable with IP router (or network switching device under IP router) LAN interface and the other end with WAN interface of IPF2002PoE. You may also connect LAN interface of IPF2002PoE with IP router directly, shown as following figure:



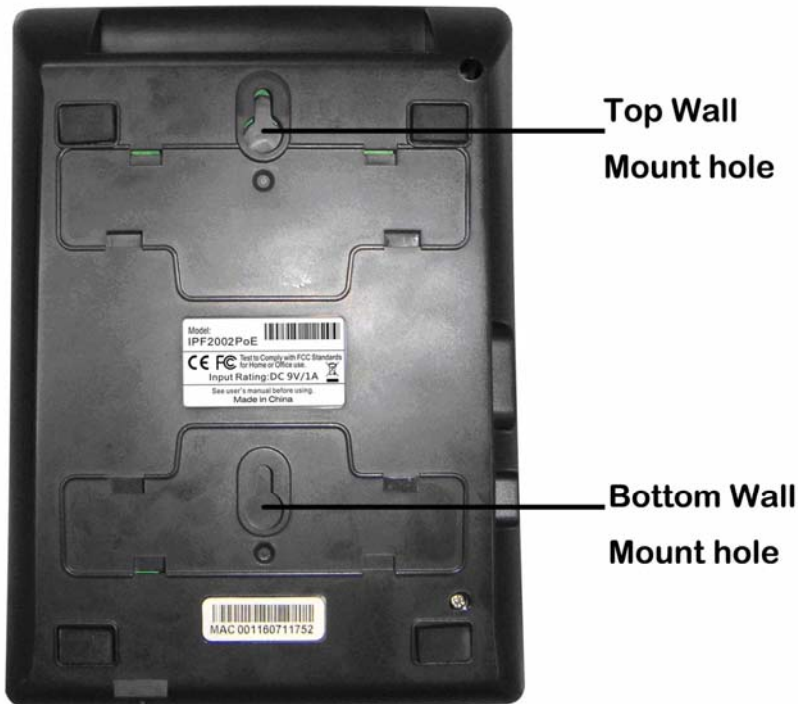
2.2.3 Installation without IP Router

You also can use a power adaptor with rated 9Vdc @ 1A output, center positive for non-PoE environment. And if there is no IP router in use, you may install IPF2002PoE between ADSL Modem and PC (or between network switching device) to act ADSL dialing equipment. Connect IPF2002PoE WAN interface into the network interface of ADSL Modem, LAN interface into PC or network switching device. The connecting is shown below:

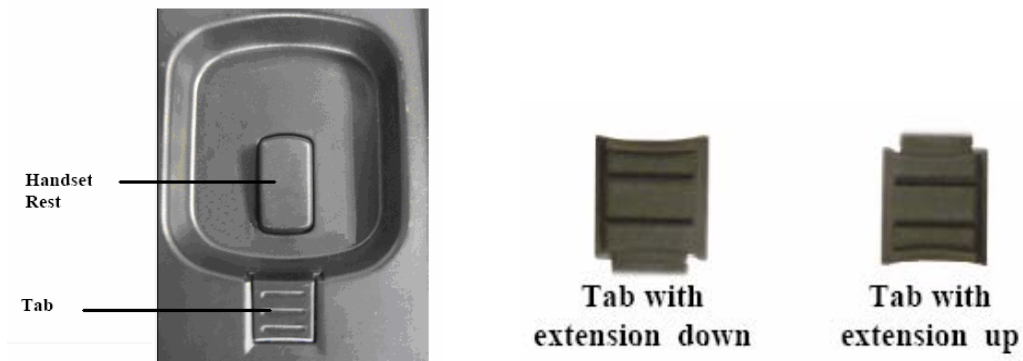


2.2.4. Wall mount

(1) IPF2002PoE can be wall mounted. There are two wall mount holes on the bottom of the main body



(2) User can simply place the device against the wall with two holes placed to the fixed hanger position on the wall

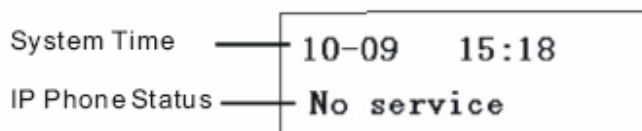


After wall mounting the main body of IPF2002PoE, user will need to pull out the tab (extension downward) from handset cradle on the top of the handset rest, and rotate the tab and plug it into the slot with the extension up for handset holding.

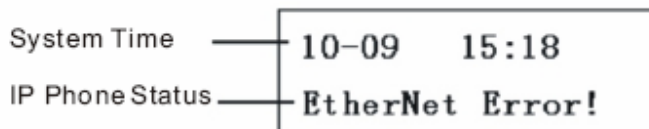
2.3 LCD Status Display

After the device is connected and started, it will display in LCD for user to check

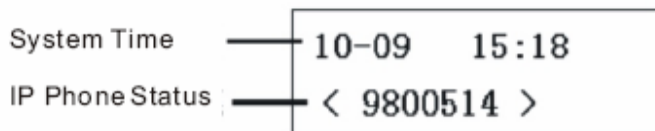
1. It means the Phone has not successfully registered in platform



2. It means the Phone network connection is wrong.

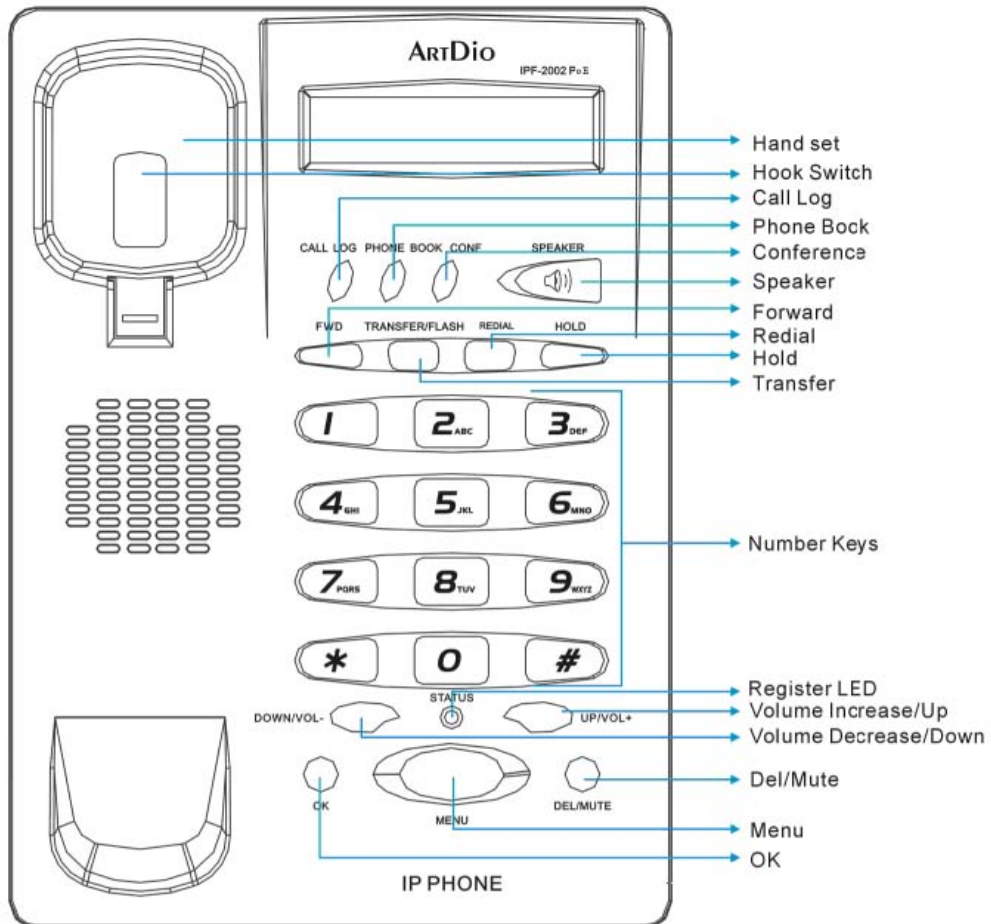


3. It means the Phone is under normal use state.



III. Basic operation

3.1 Keypad Display



3.2 Keypad Functions Introduction

Key Series	Key Name	Description
Selection Key	MENU	Press to enter 【MENU】 mode to make changes on setting and then press 【MENU】 to previous or exit 【MENU】 mode.
	OK	To confirm the settings
Calls Record Key	CALL LOG	Retrieve incoming Calls History and dialed Calls History, press 【UP】 / 【Down】 key to navigate the selection. If the speakerphone is turned on or the handset is picked up, the list of incoming Calls History will automatically display.
Call Forwarding Key	FWD	Turn on and off Call Forward Function.
Number Keys (After entering setting mode, it will enter matching symbol if you press the key quickly and continuously)	1	"1" , "-" , "," , "!" , "?"
	2	"2" , "a" , "b" , "c" , "A" , "B" , "C"
	3	"3" , "d" , "e" , "f" , "D" , "E" , "F"
	4	"4" , "g" , "h" , "i" , "G" , "H" , "I"
	5	"5" , "j" , "k" , "l" , "J" , "K" , "L"
	6	"6" , "m" , "n" , "o" , "M" , "N" , "O"
	7	"7" , "p" , "q" , "r" , "s" , "P" , "Q" , "R" , "S"
	8	"8" , "t" , "u" , "v" , "T" , "U" , "V"
	9	"9" , "w" , "x" , "y" , "z" , "W" , "X" , "Y" , "Z"
	0	"0" , "space"
	*	"*" , "." , ":" , "@"
	#	During IP line mode, press "#" key before dialing a call.
Function Key	PHONE BOOK	Press the key to search the phone book entries.
	CONF	Press the key to bring calling/called party into conference.
	SPEAKER	Press the key to enter hand-free mode.
	TRANS/FLASH	Press the key, enter phone number, and the active call will be transferred to the number.
	REDIAL	Press the key to automatically redial the latest number.
	HOLD	Keep current phone connecting.
	DEL/MUTE	Press to delete digitals and calls history, and to set or cancel mute mode.
	UP/VOL+	Press to navigate up, shift cursor to right and turn up.
	DOWN/VOL-	Press to navigate down, shift cursor to left and turn down.

IV. Configuration Settings

The IPF2002PoE IP phone supports multiple configuration settings. In this section, it mainly explains configuring using the phone keypad, and through the website. When the phone is connected properly, press the “Menu” button to enter the Menu mode to make changes on settings. Press the “Menu” button again to exit from the Menu. If no action is made after entering the Menu mode for more than 10 seconds, it will exit automatically.

4.1 Phone Book

1. Search	Search the phone book entries, to make a call or edit the entries.
2. Add entry	Add a new phone book entry
3. Speed dial	Set speed dial numbers. IPF2002PoE support 10 speed dial numbers, codes can choose from among 0-9, if the code had previously stockpiled numbers New numbers will be covered.
4. Erase all	Delete all phone entries

4.2 Call history

1. Incoming calls	Enter to retrieve Incoming Calls history, press OK for options, select “Save” to save the changes or “Erase” to delete.
2. Dialed numbers	Enter to retrieve Dialed Calls history, press OK for options, select “Save” to save the changes or “Erase” to delete.
3. Erase record	Enter to erase record of call history. Press “OK” for options, select between “Incoming” 、 “Dialed” 、 “All” to erase records.

4.3 Phone setting

4.3.1 Call forward

1. All forward	Forward all calls - go to Activation and select the options of “Enable” to turn on or “Disable” to turn off the function. Go to “Number” option to enter the phone number for call forwarding.
2. Busy forward	Busy calls forward - go to Activation and select the options of “Enabled” to turn on or “Disable” to turn off the function. Go to “Number” option to enter the phone number for busy forwarding.
3. No answer forward	No answer call forward - go to Activation and select the options of “Enable” to turn on or “Disable” to turn off the function. Go to “Number” option to enter the phone number for no answer forwarding.
4. Ring Timeout forward	Ring time out call forwarding - enter the number of ring times before a call times out, then enter the phone number for call forwarding.

4.3.2 Do not Disturb

1. Always	Block all calls
2. By Period	Block calls by certain time setting
3. Period Time	Block calls by certain time duration setting

4.3.3 Alarm setting

1. Activation	On/Off clock Alarm
2. Alarm time	Set Alarm time, IPF2002PoE automatic Alarm when at the preset time.

4.3.4 Date/Time setting

1. Date&Time	Date and time setting
2. SNTP setting	SNTP : Turn on the SNTP to automatically update the time Primary SNTP : Primary SNTP address Secondary SNTP : secondary SNTP address Time Zone : Time Zone setting Adjustment time : Time adjustment setting

4.3.5 Volume&Gain

1. Handset volume	Adjust handset volume, the maximum volume is 15.
2. Speaker volume	Adjust speakerphone volume, the maximum volume is 12.
3. Handset gain	Adjust handset gain, the maximum gain is 15.
4. Speaker gain	Adjust speakerphone gain, the maximum gain is 15.

4.3.6 Ringer

1. Ringer volume	Adjust ringer volume, the maximum is 10.
2. Ringer type	Select between 4 different types of Ring tones

4.3.7 Other

1. Auto Dial	Auto dial setting - set the time interval in seconds for auto dial function. After the phone number is entered and without pressing the “#” sign, it will auto dial out based on the time set. Time interval setting is between 3 - 9 seconds.
--------------	--

4.4 Network

4.4.1 WAN Setup

1. IP Type	Fixed IP client : set fixed IP address DHCP client : Obtain IP address automatically from DHCP server PPPoE client : PPPoE dial-up setting
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2. Fixed IP setting	IP address : set fixed IP address Network mask: set subnet mask IP address Default Gateway IP : set gateway IP address
3. PPPoE setting	PPPoE setting : User name : Enter PPPoE user ID Password : Enter PPPoE password

4.4.2 LAN Setup

1. Bridge	ON/OFF Bridge function
2. NAT	ON/OFF Router function

4.4.3 DNS

1. Primary DNS	Mostly DNS Setting
2. Secondary DNS	Secondary DNS Setting

4.4.4 VLAN

1. Activation	ON/OFF VLAN function
2. VID	Default is 136, Virtual LAN Server setting , VLAN Identifier (Virtual LAN ID. Name VLAN ID or VID).

4.4.5 Status

To check the IP phone for the IP address and MAC number.

4.4.6 LAN Speed

1. Auto	Automatically adjust LAN speed
2. 100M Full	Set up 100M full LAN speed
3. 100M Half	Set up 100M half LAN speed
4. 10M Full	Set up 10M full LAN speed
5. 10M Half	Set up 10M half LAN speed

4.5 SIP setting

If the need for the Setting ,Please firstly Enter “System Authent” Submenu of ” Administrator” , Input Password (pre-set value is the test) if the incorrect password, LCD display "incorrect", correct password LCD display "Correct." When the password was confirmed and then user could SIP set.

4.5.1 Service domain

1. First realm	Register the first SIP account: Activation: Enable Register the SIP account Disable Not Register the SIP account Display name: LCD Display Name User name: User name Register name: register the account name Register Password: register the account' s Password Domain server: Net domain names Proxy Server: Voice Gateway for a landing on the heads of the IP address or Net domain names Outbound proxy: Speech Proxy
2. Second realm	Register Secondary SIP account, like as up.
3. Third realm	Register third SIP account, like as up.

4.5.2 Codec

1. Codec type	Set Speech Coding format
2. VAD	Enable :Voice Activity detection ON Disable: Voice Activity detection OFF

4.5.3 RTP setting

1. Outband DTMF	ON/OFF Out band DTMF setting
2. Duplicate RTP	Retransmission number of voice packets

4.6 NAT transversal

STUN setting	STUN : Confirm to use STUN setting
	STUN server : STUN server address

4.7 Administrator

1. Auto config	Auto configuration : Config mode : select configuration mode (Disable/TFTP/FTP) TFTP server : TFTP server address FTP server : FTP server address FTP login name : FTP server login name FTP password : FTP server password °
2. Default setting	Default setting : Load default : restore default setting Abort : abort the process
3. System Authent	System authentication setting
4. Version	Display software version
5. Watch dog	IP phone main control
6. Restart	Restart the IP phone

V. Configuration using Web Browser

Enter the Menu on the IP phone, go to Network/status to retrieve the IP address, then check on the IP address on the connected computer system (make sure that the address of the IP Phone and the computer are in the same network segment), Then, type the address `http:// Phone-IP-address:9999` in the browser URL address, and login with the user name and password to enter the configuration setting page. The three default users are "root", "system", "user". The password is "test" (user may change the password).

To save the configuration settings through the website, press "submit" after configuring on each page. Then, press the "save change" on the left-hand side column, click on "save". After the IP phone restart, it will save all the changes made through the website.

The following display shows the on-screen instructions for the configuration using the web browser

5.1 Information

Display the IP phone system information, including the firmware version.

Model Name	Product mode
Firmware Version	Firmware Version
Codec Version	Codec Version Date

System Information

This page illustrate the system related information.

Model Name:	IPF2002PoE
Firmware Version:	V1.0.0.2
Codec Version:	Fri Aug 10 16:29:49 2007.

5.2 Phone Setting

5.2.1 Phone Book

If you need to add a phone number into the Speed Dial list, you need to input the position, the [Name], and the phone number (by URL type). When you finish a new phone list, just click the "Add phone" button.

Phone Book Page:

Phone	Name	URL	Select
0	fang	1857	<input type="checkbox"/>
1	kinyo	-8994000	<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"/>

Delete Selected

Delete All

Reset

Add New Phone

Position: (0~139)

Name:

URL:

Add Phone

Reset

PHONE Book	
Item	Description
Delete Selected	Delete the selected entries.
Delete All	Delete all entries.
Position	Select the position to add phone entries.
Name	Enter the name for the phone entries.
URL	Enter the phone number. Add "-" Symbol for an IP phone number to differentiate between the PSTN number.
Add Phone	Press to confirm to add phone entries. Maximum phone book entries are 140.
Reset	Reset the phone book entries

5.2.2 Speed Dial

Phone	Name	URL	Select
0			<input type="checkbox"/>
1	fang	1857	<input type="checkbox"/>
2	kinyo	-8994000	<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"/>

Delete Selected

Delete All

Reset

Add New Phone

Position: (0~9)

Name:

URL:

Add Phone

Reset

Speed Dial	
Item	Description
Delete Selected	Delete selected entries
Delete All	Delete all entries
Position	Select the position to add phone entries.
Name	Enter the name for the speed dial entries
URL	Enter the speed dial number. Only support IP(SIP)
Add Phone	Press to confirm to add phone entries. Maximum speed dial entries are 10.
Reset	Clear the data that set just now

5.2.3 Dial Plan Setting

Dial plans provide Add Prefix and Substract Prefix function.

Dial Plan

You could the set the dial plan in this page.

Drop prefix : Yes No
 Replace rule 1: 0 + 13+7xxxxxxxxxxx+2+7xxxxxxxxxxx
 Drop prefix : Yes No
 Replace rule 2: 0 + 0086+00xx
 Drop prefix : Yes No
 Replace rule 3: +
 Drop prefix : Yes No
 Replace rule 4: +
 Auto Dial Time: 6 (3~9 sec)
 Submit Reset

Dial Plan Setting	
Item	Description
Drop Prefix	Default No(Add Prefix).When set Yes (subtract Prefix from dialed number), subtract Prefix from dialed number. Group 4 data set - No (add Prefix): When the rule matches ,directly add Prefix Before dialed number.Replace Item could be set seven number. - Yes (minus Prefix): When the rule matches, Then subtract compatible code top from Dialed number, Can import 39 number.
Replace rule1	Set dial rule: Add or Subtract xxx: Designated code length.
Auto Dial Time	Default Value is 5S.After long wait automatically dial .
Submit	Changes in the implementation of storage set.
Reset	Clear the data which have set.

5.2.4 Call Forward

All Forward:	<input type="radio"/> Off <input type="radio"/> On
Busy Forward:	<input type="radio"/> Off <input type="radio"/> On
No Answer Forward:	<input type="radio"/> Off <input type="radio"/> On

	Name	URL
All Fwd No.:	<input type="text"/>	<input type="text"/>
Busy Fwd No.:	<input type="text"/>	<input type="text"/>
No Answer Fwd No.:	<input type="text"/>	<input type="text"/>

No Answer Fwd Time Out:	<input type="text" value="3"/> (2~8 Ring)
-------------------------	---

Forward Setting	
Item	Description
All Forward	Forward all calls to another phone number. Capable to forward all calls to IP or PSTN telephone lines If All forward ON, FWD LED light up ,LCD display “AF XXXXXX” , “AF” Show ALL Forward ,” XXXXXX” Show destination number, user could select to forward to IP Phone.
Busy Forward	Forward busy calls to another phone number (this function is limited to IP incoming call) , If Busy forward ON, FWD LED light up, LCD Display “BF XXXXX” . “BF” Show Busy Forward ,” XXXXX” Show destination number
No Answer Forward	When Ring Time out, Forward no answer calls to another number. If No Answer forward ON FWD LED light up, LCD Display “NF XXXXXX” , user could select to forward to IP Phone.
All Fwd No.	Set the name and phone number for All Forward calls.
Busy Fwd No	Set the name and phone number for Busy Forward calls.
No Answer Fwd No	Set the name and phone number for No Answer Forward calls.
Time Out	Set the ring time for call forwarding.
Reset	Reset call forwarding setting
Item	Description

5.2.5 Call Waiting

Call Waiting	
Item	Description
Call Waiting	Call Waiting - While talking to A party, B is calling in, at this time there will be beeping sound every 3 seconds to indicate a call waiting, press “hold” key button to put caller A on hold and switch to caller B. You can press “hold” key button to put caller B on hold and switch back to caller A.

5.2.6 DND Setting

DND Setting	
Item	Description
DND Always	Always block incoming IP calls - Select “On” to enable the function, all incoming IP calls will hear a busy tone. Select “Off” to disable the function.
DND Period	Block period setting - set the time to block IP calls. Enter start time at the “From” column, and enter end time at the “To” column.

5.2.7 Volume Setting

Volume Setting

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

Handset Volume: (0~15)
 Speaker Volume: (0~12)
 Ringer Volume: (0~10)
 Handset Gain: (0~15)
 Speaker Gain: (0~15)

Volume Setting	
Item	Description
Handset Volume	Adjust handset volume.
Speaker Volume	Adjust Speaker volume.
Ringer Volume	Adjust Ringer volume
Handset Gain	Adjust handset gain (suggested not to exceed 13)
Speaker Gain	Adjust Speaker Gain.

5.2.8 Melody Setting

Ringer Setting

You could set your favorite ringer in this page.

Ringer: On Off

Ringer Type:

Ringer Setting	
Item	Description
Ringer	Select "On" to enable ringer setting, select "off" to turn off.

Ringer Type	Select between the 4 different types of ringer
-------------	--

5.3 Networking

5.3.1 Status

Interface 0	
Type:	Fixed IP Client
IP:	192.168.1.11
Mask:	255.255.255.0
Gateway:	192.168.1.1
DNS Server 1:	202.96.128.68
DNS Server 2:	168.95.1.1

Status	
Item	Description
Type	IP address type show
IP	Show IP address
Mask	Show network shielding
Gateway	Show the Set Gateway' s IP address
DNS Server 1	Show the Set Primary DNS address
DNS Server 2	Show the Set Secondary DNS address

5.3. 2 WAN Setting

WAN Setting

You could configure the WAN settings in this page.

Network Setting	
Item	Description
LAN Mode	Setting LAN mode Bridge : Select whether turn on/turn off Bridge function NAT: Select whether turn on/turn off Router function
IP Type	IP Type. Select a proper connection for network setting: <ul style="list-style-type: none"> • Input Local IP, Subnet Mask, Gateway IP, DNS after Fixed IP is selected. • DHCP server received IP information after DHCP Client is selected. (Suitable for Cable Modem users) • PPPoE User Should set this item.
IP	Set up IP Address
Mask	Set up Subnet Mask Address

Gateway	Set up Gateway Address
DNS Server 1	Set up Primary DNS IP Address
DNS Server 2	Set up Secondary DNS IP Address
MAC	Set up MAC Address
Host Name	Set up Host name. Displayed the host name in Network Name Service equipment.
PPPoE Setting	
PPPoE	ADSL User Options
User Name	When selecting PPPoE for IP Type, set up a user name for ADSL account.
Password	When selecting PPPoE, set up password for ADSL account.
PPPoE	ADSL User Options

5.3.3 DDNS Setting

DDNS Setting	
Item	Description
DDNS	DDNS setting. Account and password for DDNS service. The status of Gateway is under SIP operation. If you need any help, please refer DDNS instruction for more detail, Set On/Off DDNS function
Host Name	DDNS Server Name
User Name	DDNS Server Registration Account
Password:	Account Password

E-mail Address	E-mail Address
DDNS Server	DDNS the IP address or domain name
DDNS Server List	DDNS service provider list.
Type	DDNS mode of choice.
Wild card	DDNS Wild card function ON/OFF
Back MX	DDNS Back MX function ON/OFF
Off Line	DDNS Off Line function ON/Off
Submit	Changes in the implementation of storage set.
Reset	Clear the data which have set just now.

5.3. 4 VLAN Setting

VLAN Packets: On Off

VID (802.1Q/TAG): (2 ~ 4094)

User Priority (802.1P): (0 ~ 7)

CFI: (0 ~ 1)

NAT VLAN Setting

VLAN Packets: On Off

VID1: (2 ~ 4094), 0->Off

VID2: (2 ~ 4094), 0->Off

VID3: (2 ~ 4094), 0->Off

VID4: (2 ~ 4094), 0->Off

VLAN Setting	
Item	Description
VLAN Packets	Default Off. When set "On", turn on receive VALN Packets function
VID	Default is 136, Virtual LAN Server setting, VLAN Identifier (Virtual LAN ID. Name VLAN ID or VID).
User Priority	Default is 0, user priority Setting, user priority(0-7).
CFI	Default is 1, Canonical Format Indicator (CFI). CFI=1: head of the packet contains spaces RIF, And the NCFI Flag which inside RIF decision information is carried by MAC address. "Standard format" (Canonical Format) or "non-standard format" (Non-Canonical Format) CFI=0: head of the packet Do Not contains spaces RIF, information is carried by MAC address is "Standard format" (Canonical Format)
NAT VLAN Setting	

VLAN Packets	Default Off. When set "On", turn on receive "VALN Packets" function.
VID1 ~ 4	Default is 136, Virtual LAN Server setting, VLAN Identifier (Virtual LAN ID. Name VLAN ID or VID).
Submit	Changes in the implementation of storage set.
Reset	Clear the data which have set just now.

5.3.5 SNTP Setting

SNTP: On Off

Primary Server:	time.windows.com
Secondary Server:	208.184.49.9

Time Zone:	GMT + 08 : 00 (hh:mm)
Sync. Time:	1 : 0 : 0 (dd:hh:mm)

SNTP Setting	
Item	Description
SNTP	When setting the use time for a server, On is "in use", Off is "not in use".
Primary Server	Primary Server. Input the Primary Time Server Address.
Secondary Server:	Secondary Server. Input the Secondary Time Server Address.
Time Zone	Time Zone. Input the local time.
Sync. Time	Sync. Time. Input the Sync. Time.
Submit	Submit
Reset	Reset Default Settings

5.4 NAT Router

5.4.1 LAN Setting

LAN Setting

IP:

Mask:

DHCP Server

DHCP Server: On Off

Start IP:

End IP:

Lease Time: : (dd:hh)

LAN Setting	
Item	Description
IP	LAN port will become a virtual domain When the IPF2002POE Router function turn on
Mask	Set up LAN Subnet Mask Address
DHCP Server	Set to Open and Close DHCP Server. To retrieve IP address automatically from Start IP and End IP server when Client End is open.
Start IP	Set Start IP of DHCP
End IP	Set End IP of DHCP
Lease Time	Lease Time is the available use time for designated IP assigned by server.
Submit	Submit
Reset	Reset Default Settings

5.4.2 DMZ Setting

DMZ: On Off

DMZ Host IP:

DMZ Setting	
Item	Description

DMZ	DMZ. DMZ is to set a domain server outside of the firewall, it allows to designate a host to have mutual communication with external network without protections, so that it can function for other required applications with an external host.
On	Open DMZ Function
Off	Close DMZ Function
DMZ Host IP	DMZ Host IP

5.5 SIP setting

5.5.1 Service Domain

SIP Proxy Server 1 (Default)

Active: On Off

Display Name:

User Name:

Register Name:

Register Password:

Domain Server:

Proxy Server:

Outbound Proxy:

Subscribe for MWI: On Off

Status: Registered

SIP Proxy Server 2

Active: On Off

Display Name:

User Name:

Register Name:

Register Password:

Domain Server:

Proxy Server:

Outbound Proxy:

Subscribe for MWI: On Off

Status: Registered

SIP Proxy Server 3

Service Domain	
Item	Description
Active	Account Options <ul style="list-style-type: none"> You can register 3 different accounts at the same time. When selecting “On” at the

	<p>current field, input corresponding register number in the tab.</p> <ul style="list-style-type: none"> Dial-out number is the first number registered (the first pick is the number with "On" option). IF the first accounts could not be registered automatically Switch to the next registered account. Any of 3 registered numbers can receive incoming calls.
Display Name	Account Label
User Name	User Name. the number in use is the phone number of the device.
Register Name	Registered Name
Register Password	Registered Password
Domain Server	SIP server domain name or IP address
Proxy Server	<ul style="list-style-type: none"> Please input registered Gateway IP address or domain name after "On" is selected. Please input registered Gateway IP address or domain name
Outbound Proxy	Outbound Proxy Server
Subscribe of MWI	Default Off. When set to On (Enforcement), the cyclical transmission "to the message left, then to detect" movement.
Status	Registered Status. "Registered" indicates that register process is completed, "Not Registered" indicates that Registration process is failed.

5.5.2 Port Setting

Port Setting	
Item	Description
SIP Port	SIP Protocol port, the default setting is 5060.
RTP Port	RTP port number is the number for Vocal sending and receiving setting. It can be arranged from 1024 to 65533 but it must be even numbers.

5.5.3 Codec Setting

Codec Setting	
Item	Description
Codec Priority	Codec Options. Select the Codec Priority(Codec Priority 1 as the first choice), and Voice Codec format
G.723 5.3K:	When selecting g.723 5.3K as Voice Codec, set up to “On” for Codec of 5.3K/S.
Voice VAD	Voice Activity detection ON/OFF
Submit	Submit
Reset	Reset Default Settings.

5.5.4 Codec ID

For the settings of G726 Codec and RFC 2833, we suggest setting them up with default value unless the Registration platform has other requirements.

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

5.5. 5 DTMF Setting

- RFC 2833
 Inband DTMF
 Send DTMF SIP Info

DTMF Setting	
Item	Description
RFC2833	transmission DTMF signals Using RFC2833
Inband DTMF	transmission DTMF signals Using Inband DTMF
Send DTMF SIP Info	transmission DTMF signals Using SIP Info
Submit	Changes in the implementation of storage set.
Reset	Reset Default Settings.

5.5.6 STUN Setting

STUN: On Off

STUN Server:	<input type="text" value="stun.xten.com"/>
STUN Port:	<input type="text" value="3478"/> (1024~65535)

STUN Setting	
Item	Description
STUN	Check whether the setting uses STUN Protocol
STUN Server	STUN Server Address
STUN Port	STUN Port Number
Submit	Changes in the implementation of storage set.
Reset	Reset Default Settings.

5.5.7 RPort Setting

RPort: On Off

RPort Setting	
Item	Description
RPort	Set whether using RPort Protocol
Submit	Changes in the implementation of storage set.
Reset	Reset Default Settings.

5.5. 8 Other Setting

Hold by RFC: On Off

Voice QoS (Diff-Serv): (0~63)

SIP QoS (Diff-Serv): (0~63)

SIP Expire Time: (30~86400 sec)

Ohter Setting	
Item	Description
Hold by RFC	The RFC option is provided by ISP.
Voice QoS	Set up the size of Voice QoS. Higher number is larger than lower number.
Sip QoS	Set up the size of SIP QoS.
SIP Expire Time	SIP Expire Time

5.6 Others

5.6. 1 Auto Config

Auto Configuration: Off TFTP FTP HTTP

TFTP Server:

HTTP Server: Exp. 60.35.187.30

HTTP File Path: Exp. /download/

FTP Server: Exp. 60.35.187.31

FTP Username:

FTP Password:

FTP File Path: Exp. /file/load

Auto Config	
Item	Description
Auto Configuration	Default Is Off, Automatically Configuration environmental setting, with TFTP, FTP and HTTP three ways.

TFTP Server	TFTP Server IP address or Domain Name.
HTTP Server	HTTP Server IP address or Domain Name.
HTTP File Path	Set File Path in Http Server, for example: /123/.
FTP Server	Set FTP Server IP address or Domain Name.
FTP Username	FTP Username
FTP Password	FTP Password
FTP File Path	Set File Path in FTP Server, for example: /123/.
Submit	Changes in the implementation of storage set.
Reset	Reset Default Settings.

5.6.2 Firmware Upgrade

Method: Local PC TFTP

Local PC	
Code Type:	Risc
File Location:	<input type="text"/> 浏览...

TFTP	
TFTP Server:	192.168.1.250

Ohter Setting	
Item	Description
Method	Select HTTP or TFTP to update software.
Code Type	Select Risc and DSP type to update Program Code Type
File Location	Select Upgrade File Location
TFTP Server	Set TFTP server address.
Submit	Changes in the implementation of storage set.
Reset	Reset Default Settings.

5.6.3 Auto Update

Update via:	<input checked="" type="radio"/> Off <input type="radio"/> TFTP <input type="radio"/> FTP <input type="radio"/> HTTP		
TFTP Server:	<input type="text"/>		
HTTP Server:	<input type="text"/>	Exp. 60.35.187.30	
HTTP File Path:	<input type="text"/>	Exp. /download/	
FTP Server:	<input type="text"/>	Exp. 60.35.187.31	
FTP Username:	<input type="text"/>		
FTP Password:	<input type="text"/>		
FTP File Path:	<input type="text"/>	Exp. /file/load	
Check new firmware:	<input type="radio"/> Power ON <input checked="" type="radio"/> Scheduling		
Scheduling (Date):	<input type="text" value="14"/>	(1~30 days)	
Scheduling (Time):	<input type="text" value="AM 00:00- 05:59"/>		
Automatic Update:	<input checked="" type="radio"/> Notify only <input type="radio"/> Automatic		
Firmware File Prefix:	<input type="text" value="PHONEO"/>		
Next update time:	<input type="text"/>		

Auto Update	
Item	Description
Update via	Default is Off(Do not Auto Update). Automatically update environmental setting, with TFTP, FTP and HTTP three ways
Check new Firmware	Default Scheduling(In accordance with schedules).Ways of Checking whether have new Version for the IP Phone Power ON: Check whether have new Version for the IP Phone at Power ON Scheduling: Check whether have new Version for the IP Phone In accordance with schedules.
Scheduling (Date)	Default is 14 days, Every once in the days when the IP Phone check whether have new firmware Version for it Auto Update, the shortest one day, the Longest thirty days
Scheduling (Time)	Set Every time going to check the time span, Each section to check the time, a detailed time randomly generated. Section 4 provides for AM 00:00-05:59,AM 06:00-11:59, AM 12 : 00-17:59 AM 18:00 - 23:59. Default is AM00:00-05:59
Automatic Update	Updated automatically, providing Notify only (notification messages). Automatic (automatically updated) Default is Notify Only -Notify only: Does not automatically update the implementation of the action ,Phone : LCD

	Display the message "Found new Firmware", users can choose whether update to the new software -Automatic: If Scheduling has set ,IP Phone could automatically update New Firmware version .But POWER ON ,need user to choose whether update the new Firmware .
Firmware File Prefix	Default Product model Inspection Firmware version of the product model data
Next update time	Next checking or Updating date and time
Submit	Submit
Reset	Reset Default Settings

5.6. 4 Default Setting

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

Restore default settings:

5.6. 5 Advanced Setting

Advanced Setting	
Item	Description
ICMP Not Echo	Default No, responding to the message of ping, if select "Yes" do not responding to the message of ping.
Send Anonymous CID	Default No, Have no Call out security function, send information of the IP Phone, if Select "Yes" do not send information of the IP Phone
Send Flash event	Default Disable , User could Select DTMF Event or SIP Info to Send flash event.
SIP Encrypt	Default Disable , IPF2002PoE have INFINET, AVS, WALKERSUN1. WALKERSUN2 four format for SIP encryption. This service is provided by use environment

Submit	Submit
Reset	Reset Default Settings

5.6. 6 System Auth

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

System Auth	
Item	Description
New username	Username. Set up a New Username for Registration.
New password	Set up a New Password
Confirmed password	Confirm Password
Submit	Submit
Reset	Reset Default Settings

5.7 Save Change

You have to save changes to effect them.

Save Changes:

5.8 Reboot

You could press the reboot button to restart the system.

Reboot system:

VI. Product Specifications

Voice Interface	
Call Control Protocol	SIP v1 (RFC 2543), v2 (RFC 3261)
Voice Compression	G.711 (64k bit/s, PCM), G.723.1 (6.3k / 5.3k bit/s), G.726 (16k / 24k / 32k / 40k bit/s, ADPCM), G.729A (8k bit/s, CS-ACELP), G.729B (adds VAD & CNG to G.729)
Delayed (Point to Point)	< 100ms
Echo Cancellation	Packet Loss Compensation, Adaptive Jitter Buffer, VAD (Voice activity detection), CNG (Comfortable noise generator), AEC (Acoustic echo canceller), G.165 (LEC, Line echo canceller), G.168 (EC, Digital network echo canceller)
Flow of the Average	5.3K(G.723.1) ~ 64K(G.711) bps
Other Support	In-Band DTMF, Out-of Band DTMF, SIP Info
LAN Interface	
Interface Spec	10/100Mbps Fast Ethernet
Interface Connector	RJ-45 Connector (Supports IEEE 802.3af Power-over-Ethernet)
Management	Web Browser
IP Address	Static IP / DHCP Client / PPPoE Client / TFTP Client / HTTP Server / DNS Client / Telnet / SNMP / RTP / RTCP / DDNS
Firmware Update	HTTP / TFTP / FTP
Call Features	Call Hold / Call Waiting / Call Forward / Call Transfer / Caller ID / Call Block / 3-way Conference
Other Specs.	
Input AC/DC Range	100 - 240VAC, 50 - 60Hz, 9VDC (Option)
Power Consumption	6W
Operation Environment	Working Temperature: 0 ~ 40°C (32° ~ 104°F)
	Storage Temperature: -30 ~ 65°C (-22° ~ 149°F)
	Relative Humidity: 10 ~ 95% Non-Condensing
Weight	0.60kg
Certificates	CE / FCC
Dimensions	219mm *155 mm *75 mm
Others	140 Phone Contacts
	NAT Pass-through (STUN / uPnP / R-Port)
	Networking Status, Firmware Update, No-Answer, Call Forward, Busy Call Forward, Call Forward, Missed Call Forward, Web Management, LED indicators

VII. Frequently Asked Questions (Q&A)

1. How do I know that IPF2002PoE Registration is complete?

A: If IPF2002PoE is registered successfully; the Registration number will be displayed on LCD. If “No Service” is displayed on LCD that means the Registration is not complete. System requires 2 minutes to complete Registration for IPF2002PoE.

2. After connecting to power source and activating phone device, why do I see “ETHERNET ERROR” on my LCD?

A: Check if Ethernet Cable is correctly connected. If it is connected, please check your network connection.

3. Can I dial the phone if a blackout occurs?

A: At this point of time, powering from any of PSE (power sourcing equipment) routers or equipments, IPF2002PoE will normally work.

4. How to make a phone call?

A: Pick up the handset, after a dial tone, you can dial or make an internet call.

5. How to use “Call Hold” function?

A: When you are on a call, press the “Hold” key or “Swap” key to put the caller on hold; to retrieve the call, press the “hold” key or swap key again.

6. How to use “Call Waiting” Function?

A: When you are on a call, if you hear a dial tone twice that means there is another incoming call for you. If you want to answer it, press “hold” key to pick up the call.

7. How to make a “3-way Conference” call?

A: **“3-way Conference” call**

When you are on a phone with party A and you want to invite party B to join your conversation, Press “hold” key to put party A on hold, and dial Party B’ s number after you hear a dial tone. When party B is connected, inform party B that there is a “3-way Conference” call you like to invite him/her to participate.

- a. If party B accepts your invitation, press “Conf” key to enter the 3-way conference call
- b. If party B rejects your invitation or call forwarding is failed, press “hold” key to cancel call forwarding and retrieve the call back to party A.

8. How to make “Call Transfer” ?

A: **Blind Transfer**

Connect a call with party A, press [Hold] to hold party A and press [Transfer/Flash] key and input party B’ s number. When the line is connected, “Call Transfer” is complete.

B: **Attendant Transfer**

Connect a call with party A, press “TRANSFER/FLASH” key and input party B’ s number. When the line is connected, “Call Transfer” is complete.

9. How to use Speed Dial?

- A: Step1. Store the phone numbers in the speed dial list
 Step2. Pick up the handset or press "Speak" key
 Step3. Press "*" key to switch to IP line
 Step4. Press speed dial number
 Step5. Press "#" key to complete

10. If you hear a lot of noise to how do?

A: Please lower the volume, the proposed 10 or use default value.

11. Dial plan Set Example

Dial Plan

You could the set the dial plan in this page.

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: +
 Auto Dial Time: (3~9 sec)

Example:

1: Drop prefix: No, Replace rule 1: 002, 8613+8662

- 1: When input numbers include 8613, as long as the numbers begin with 8613, 002 will be automatically added in front of all the numbers, the actual number is [002+8613+xxx].
- 2: When input numbers include 8662, as long as the numbers begin with 8662, 002 will be automatically added in front of all the numbers, the actual number is [002+8662+xxx].

2: Drop prefix: Yes, Replace rule 2: 006, 002+003+004+005+007+009 ;

- 1: When input numbers include 002, as long as the numbers begin with 002, 006 will automatically instead of 002, the actual number is [006+xxx].
- 2: When input numbers include 003, as long as the numbers begin with 003, 006 will automatically instead of 003, the actual number is [006+xxx].

3: Drop prefix: No, Replace rule 3: 009, 12.

1: When input numbers include 12, as long as the numbers begin with 12, 009 will be automatically added in front of all the numbers, the actual number is [009+12+xxx].

4: Drop prefix: No, Replace rule 4: 007, 5xxx+35xx+21xx.

1: When input number include 5XXX, as long as the numbers begin with 5, followed by three numbers; 007 will be automatically added in front of all the numbers, the actual number is [007+5xxx]

2: When input number include 534, the numbers begin with 5, followed by two numbers, it is unfit to add Prefix rule, the actual number is [534].

3: When input numbers include 358822, the numbers begin with 35, followed by four numbers, it is unfit to add Prefix rule, the actual number is [358822].

12 · How to switch with Multiple SIP Platform?

If the Phone is already set with 2-3 SIP platform accounts at the same time, you may operate as following ways to switch to the one you want.

1. For example, if the Phone is set with 3 SIP platforms of A, B, C: A is preset platform and LCD will display the phone number of A platform. If you want to switch A to B, you may just take up the handset or press speaker key.

Press 2*.

Put down the handset or press speaker key to make it in standby state, and Phone LCD will display platform B's phone number.

And you can use platform B to make call.

2. If you want to use platform C, you may just take up the handset or press speaker key.

Press 3*.

Put down the handset or press speaker key to make it in standby state, and LCD will display platform C's phone number.

And you can use platform C to make call.

3. If you want to use platform A, you may just take up the handset or press speaker key.

Press 1*.

Put down the handset or press speaker key to make it in standby state, and LCD will display platform A's phone number.

And you can use platform A to make call.

4. The preset platform will be platform A after the Phone is restarted.

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The company reserves the rights to continuously improve the product at any time and support will be based upon the latest release of the product.

Please visit our website at www.artdio.net to download the latest driver and user' s manual.

一．產品介紹

ArtDio IPF2002PoE 是基於 SIP (Session Initiation Protocol) 協議的新一代企業級 IP 電話解決方案, 創新的技術工藝使其擁有絕佳的音質表現和豐富的功能。

1.1 軟體功能

1. 支持 SIP v1 (RFC 2543), SIP v2(RFC 3261), TCP/UDP/IP, RTP/RTCP, HTTP, ICMP, ARP/RARP, DDNS, DHCP Client, DHCP Server, SNTP, PPPoE, STUN, TFTP 等網路協定。
2. 支持多種編解碼協定, 如: G.711 (64k bit/s, PCM), G.723.1 (6.3k / 5.3k bit/s), G.726 (16k / 24k / 32k / 40k bit/s, ADPCM), G.729A, G.729B。
3. 支援 VAD 動態語音檢測 (Voice Activity Detection), CNG 舒適噪音生成(Comfortable Noise Generator), LEC 線性回音消除 (Line Echo Canceller), 語音封包丟失補償 (Packet Loss Compensation), 語音抖動緩衝 (Adaptive Jitter Buffer)。
4. 支援來電顯示及回撥功能 (Caller ID Display or Redial), 來電等待(Call Waiting), 通話保留 (Call Hold), 來電轉移(Call Transfer (attended /blind)), 來電轉接(Call Forward), 三方會議(3-way Conference)。
5. 支持 In-Band 和 Out-Of Band DTMF(RFC2833), Sip Info。
6. 支援第三層 QoS (Tos Field) 協定。
7. 支援 HTTP1.1 網頁驗證, MD5 驗證 (RFC2069/RFC2617) 話機使用更安全。
8. 可以同時註冊三個不同 SIP 平臺, 支援 Outbound Proxy。
9. 提供從頭到尾的手動電話按鍵設定、網頁設定、Console 控制臺和 Telnet 設定或提供 HTTP/TFTP/FTP 自動下載設定檔, 支援 4 種鈴聲。
10. 支持 HTTP, TFTP, FTP 自動更新軟體。

1.2 硬體功能

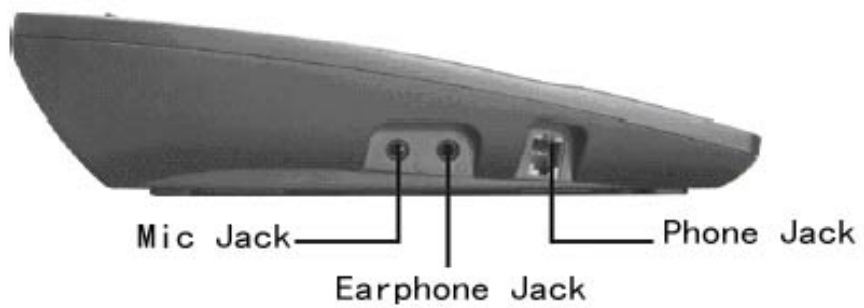
1. RJ-45 *2 10/100Mbps 乙太網路介面。
2. MIC & Line Out 耳麥介面, 支援接入時自動切換到耳麥。
3. 全方位免持喇叭擴音器 (SPEAKER)、重撥(REDIAL)、來電日誌(CALL LOG)、音量控制 (VOL-/+)、電話簿 (PHONE BOOK)、來電轉移 (TRANS)、三方會議 (CONF)、勿打擾 (DND)、MIC 靜音 (MUTE)。
4. 擁有一個兩行背光 LCD 顯示器, 一個 LED 指示燈共同完成話機狀態顯示。
5. 按鍵支援兩路電話切換, 支援十個預設號碼快速撥號 (0-9)。

1.3 產品外觀

1. 話機正面



2. 話機側面



3. 話機背面



注意：如果您使用的環境沒有 PoE 供電，您也可以接入 DC 9V @ 1A 的外接電源給 IPF2002PoE 提供電源

二 · 產品安裝

2.1 包裝內容

1. IPF2002PoE 話機一台
2. 電話手持聽筒一隻
3. 電源供應器一隻(選配)
4. RJ-45 網路線一條
5. 產品使用說明書一份

2.2 設備連接

2.2.1 有 PSE 供電路由器的接法:

IPF2002PoE 採用基於乙太網供電的 IEEE 802.3af 標準 (Power-over-Ethernet)，它可以通過帶標準 PSE (power sourcing equipment) 的路由器或設備提供動力。您可以直接連接 IPF2002PoE 的 WAN 或者 LAN 埠到 PSE Router 上，如下圖所示：



2.2.2 有 IP 分享器（路由器）的接法

如果您使用的環境沒有 PoE 提供電能時，您也可以接入 DC 9V @ 1A 的外接電源給 IPF2002PoE 提供電能。當你的使用環境有 IP 分享器時，將 RJ-45 網路線一端接入 IP 分享器（或 IP 分享器下網路交換設備）LAN 介面，另一端接入 IPF2002PoE 的 WAN 介面。如下圖所示：



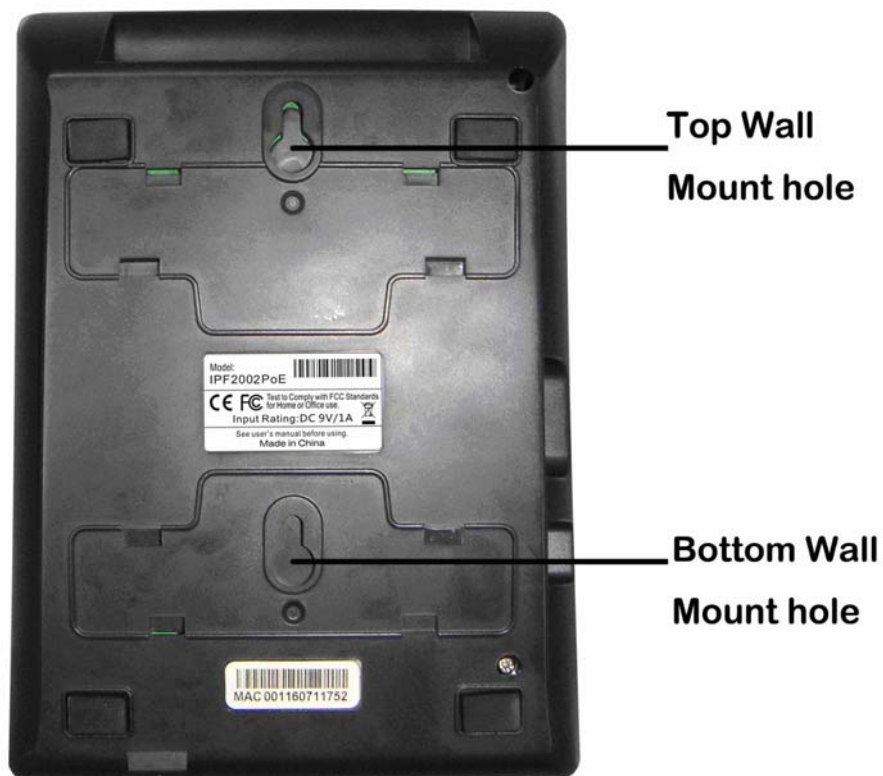
2.2.3 沒有 IP 分享器的接法

如果您使用的環境沒有 PoE 提供電能時，您也可以接入 DC 9V @ 1A 的外接電源給 IPF2002PoE 提供電能。當使用環境沒有 IP 分享器，可以將 IPF2002PoE 安裝在 ADSL Modem 和 PC（或網路交換設備）之間充當 ADSL 撥號設備。連接方法即 IPF2002PoE 的 WAN 介面接入 ADSL Modem 的網路介面，LAN 介面連接 PC 或網路交換設備。連接示意圖如下：

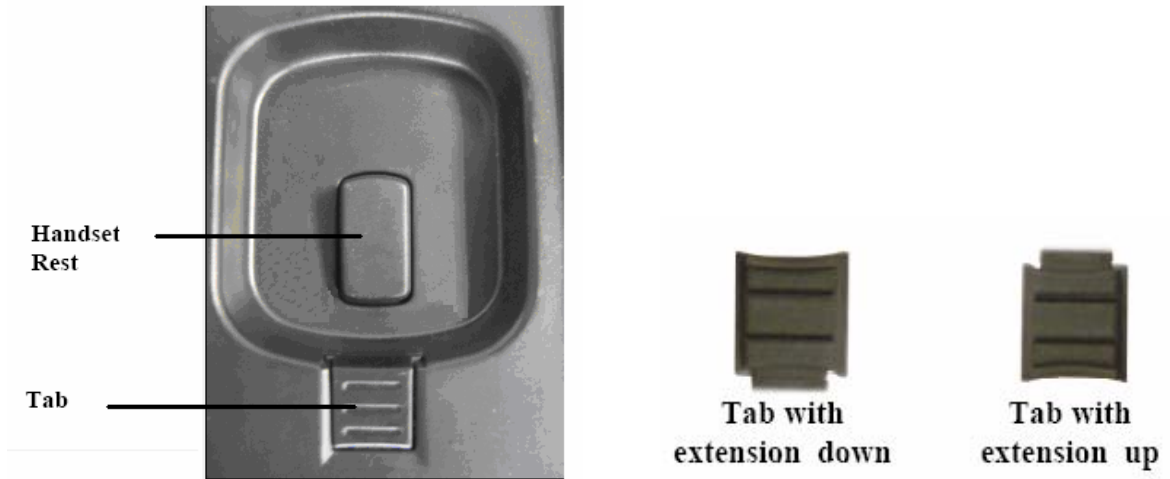


2.2.4 牆面安裝

(1) IPF2002PoE可以安裝在牆上,電話主機背部有兩個掛牆孔：



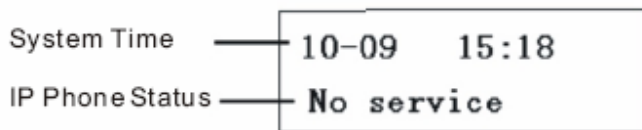
(2) 將電話的掛牆孔掛在牆壁的掛鈎上,使用者可以容易地將電話安裝在牆面上



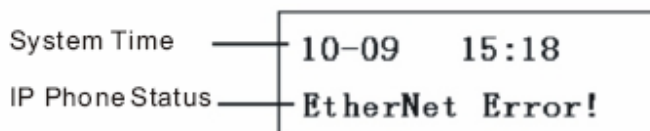
2.3 設備接入狀態顯示

當設備連接啟動後,會在 LCD 上顯示狀態,方便使用者檢查:

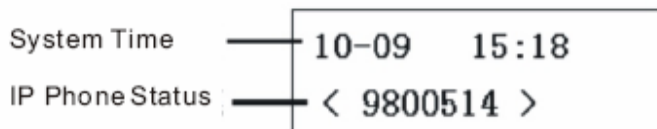
1. 此狀態表示話機未成功註冊平臺。



2. 此狀態表示話機網路連接錯誤。

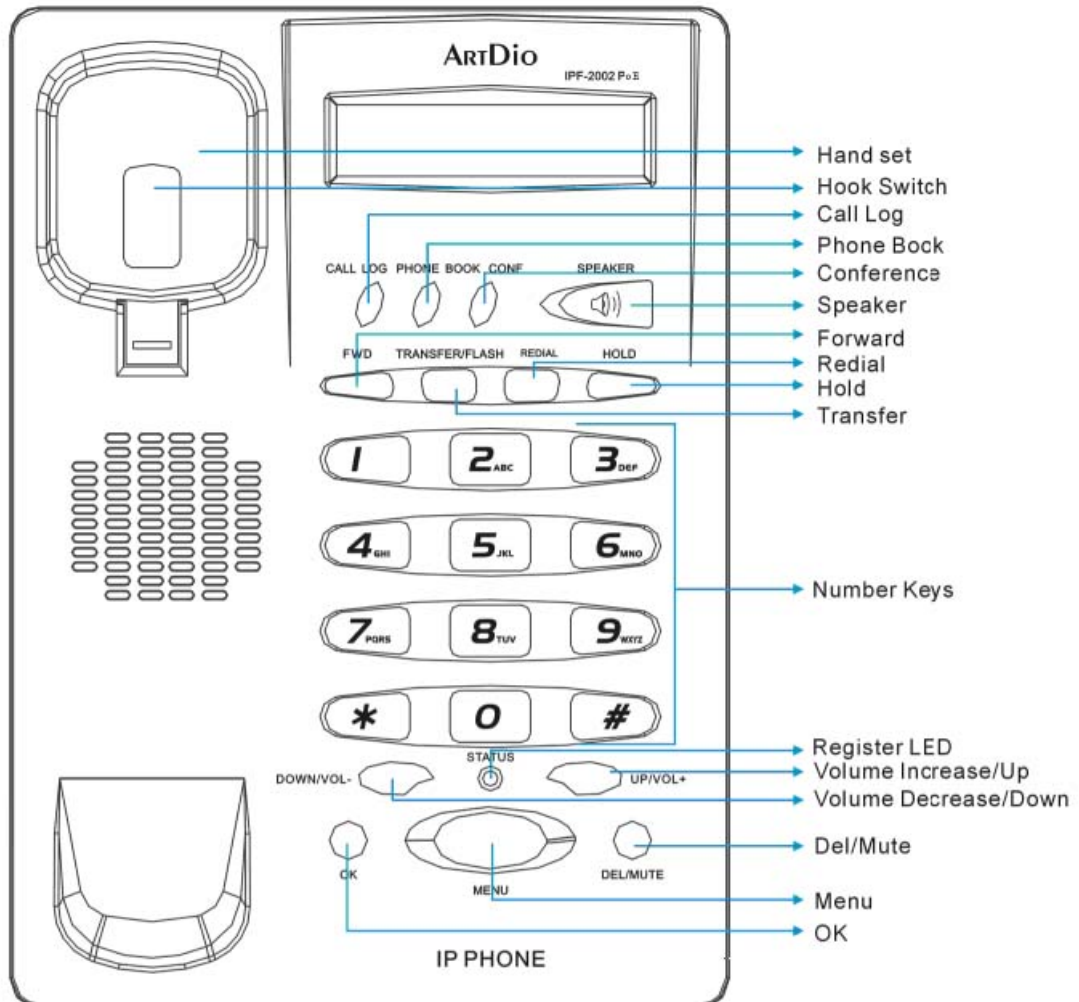


3. 此狀態表示話機狀態正常,能正常使用。



三·話機按鍵設定

3.1 話機按鍵示意圖



3.2 話機按鍵功能說明

按鍵分類	按鍵名	功能/操作
選單鍵	MENU	進入“MENU”模式,按下後出現功能設定功能表,進行相關設定,在進入功能表後按“MENU”鍵會退回上一層選單或退出“MENU”模式,進入待機模式。
確認鍵	OK	進入選中的選單項,確認選中的設定,確認設定值。
功能鍵	UP/VOL+	功能表向上選擇,向右移動遊標,向上預覽所顯示的清單,通話狀態中音量調大。

	DOWN/VOL-	功能表向下選擇,向左移動遊標,向下預覽所顯示的清單,通話狀態中音量調小。
通話記錄鍵	CALL LOG	查詢撥入記錄和撥出記錄,用 Up/Down 鍵上下選擇通話記錄,按下免持鍵或拿起聽筒會自動撥出此條記錄。
來電轉接功能鍵	FWD	開啓與關閉來電轉接功能。
數字鍵 (在進入設定模式後連續快速的按鍵會輸入相應字元)	1	“1”, “-”, “,”, “!” , “?”
	2	“2”, “a”, “b”, “c”, “A”, “B”, “C”
	3	“3”, “d”, “e”, “f”, “D”, “E”, “F”
	4	“4”, “g”, “h”, “i”, “G”, “H”, “I”
	5	“5”, “j”, “k”, “l”, “J”, “K”, “L”
	6	“6”, “m”, “n”, “o”, “M”, “N”, “O”
	7	“7”, “p”, “q”, “r”, “s”, “P”, “Q”, “R”, “S”
	8	“8”, “t”, “u”, “v”, “T”, “U”, “V”
	9	“9”, “w”, “x”, “y”, “z”, “W”, “X”, “Y”, “Z”
	0	“0”, “space”
	*	“*”, “.”, “:”, “@”
	#	特殊撥號命令碼,輸入號碼按下該鍵開始撥號。
電話簿查詢使用鍵	PHONE BOOK	電話簿功能鍵,按下此鍵可以調出已設定的連絡人的電話和姓名進行編輯或使用。
三方會議鍵	CONF	三方會議功能鍵,在已接通 2 路電話的情況下按下此鍵使用者進入三方會議模式。
免持鍵	SPEAKER	免持通話鍵,按下此鍵話機進入免持通話狀態。
來電轉移鍵	TRANS/FLASH	來電轉移功能鍵,按下此鍵後,輸入號碼,此通電話會被轉移至輸入的號碼上。
重撥鍵	REDIAL	重撥鍵,按下此鍵會自動撥出最近使用者撥出的號碼。
通話保留鍵	HOLD	通話可保留當前一通電話。
靜音/刪除鍵	DEL/MUTE	在撥號時刪除號碼,查詢電話記錄時刪除電話記錄;通話時設定靜音或取消靜音。

四．話機選單設定

IPF2002PoE 支援多種設定模式,這裏主要講解如何使用話機按鍵進行手動設定,和如何通過 PC 進入網頁介面進行設定。

當話機啓動完成後,按下“MENU”鍵進入“MENU”模式,出現設定功能表進行相關設定,如果再按一次“MENU”鍵會退出“MENU”模式,進入待機模式。如果進入“MENU”模式後,不進行操作 10 秒後也會自動退出。

4.1 Phone book

1. Search	進行號碼查詢,以便進行快速撥號和編輯。選擇此項目,第一次按下「OK」進入快速查詢模式,用戶可以輸入 Name 或 Number 進行快速查詢;連續兩次按下「OK」鍵進入瀏覽查詢模式。在此模式下選擇項目後按下「OK」鍵進入編輯模式,對 Name 和 Number 進入編輯。查詢模式中選中號碼後舉起聽筒或按下免持鍵會撥出此號碼。
2. Add entry	增加 Phone Book 記錄。選擇此項目後,第一次按下「OK」在 Name 輸入要儲存號碼的使用者名稱或代號。按下「OK」儲存並進入 Number 項目輸入號碼然後按下「OK」鍵儲存並退出電話簿編輯。
3. Speed dial	設定快速撥號號碼。選擇此項目後,按下「OK」進入 Name 欄輸入速撥號碼的使用者名稱或代號,按下「OK」鍵進入 Number 項目輸入速撥號碼後按下「OK」輸入速撥代碼完成該筆速撥號碼的輸入。話機支援九筆速撥號碼,代碼可以從 0-9 之間選擇,如果該代碼以前已儲存過號碼,將會被新號碼覆蓋。
4. Erase all	清除所有 Phone Book 記錄。

4.2 Call history

1. Incoming calls	來電記錄,進入功能表後,再次按下“OK”鍵會出現儲存或清除選項,選擇“save”或“erase”進行相關操作。
2. Dialed numbers	已撥記錄,進入功能表後,再次按下“OK”鍵會出現儲存或清除選項,選擇“save”或“erase”進行相關操作。
3. Erase record	清除記錄,進入功能表後,再次按下“OK”鍵會出現清除選項:“Incoming”刪除來電記錄、“Dialed”刪除已撥電話記錄、“All”刪除來電和已撥的所有記錄。

4.3 Phone setting

4.3.1 Call forward

1. All forward	無條件轉接,進入功能表後,在“Activation”選項中選擇“Enabled”或“Disable”確認開啓與關閉該功能。在“Number”選項中輸入轉接號碼。
2. Busy forward	遇忙轉接,進入功能表後,在“Activation”選項中選擇“Enabled”或“Disable”確認開啓與關閉該功能。在“Number”選項中輸入轉接號碼。

3. No answer forward	無應答轉接,進入功能表後,在“Activation”選項中選擇“Enabled”或“Disable”確認開啓與關閉該功能。在“Number”選項中輸入轉接號碼。
4. Ring Timeout forward	若要啓用震鈴逾時轉接功能,請先進入功能表。進入功能表後,先輸入所要求之震鈴次數,然後輸入轉接號碼。

4.3.2 Do not Disturb

1. Always	拒接所有來電,如果已設定來電拒絕,話機將聽不到來電鈴聲,而撥號端則聽到忙線音。
2. By Period	部分時間拒接來電,如果已設定來電拒絕,在該時間話機將聽不到來電鈴聲,而撥號端則聽到忙線音。
3. Period Time	設定拒接來電持續的起止時間,如果已設定在該時間話機將聽不到來電鈴聲,而撥號端則聽到忙線音。

4.3.3 Alarm setting

1. Activation	設定是否啓用鬧鐘功能。
2. Alarm time	設定鬧鐘時間,當該時間到時話機會自動震鈴。

4.3.4 Date/Time setting

1. Date&Time	手動設定時間
2. SNTP setting	SNTP：開啓時間伺服器,自動更新時間。 Primary SNTP：主要時間伺服器地址。 Secondry SNTP：備用時間伺服器地址。 Time zone：時區設定,輸入“*”號爲設定負時區。例如：按下 8 鍵後再按下“*”鍵,話機 LCD 此時將顯示-8 時區。 Adjustment Time：自動對時週期設定。

4.3.5 Volume&Gain

1. Handset volume	話筒輸出音量調整,最大值 15。
2. Speaker volume	免持輸出音量調整,最大值 12。
3. Handset gain	話筒輸入音量調整,最大值 15。
4. Speaker gain	免持輸入音量調整,最大值 15。

4.3.6 Ringer

1. Ringer volume	鈴聲音量調整,最大值 10。
2. Ringer type	鈴聲模式設定,有 4 種模式。

4.3.7 Other

1. Auto Dial	此項設定在號碼輸入完成後,沒有按 # 號確認撥出時,話機自動撥出的等待時間,設定範圍 3-9 秒。
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4.4 Network

4.4.1 WAN Setup

1. IP Type	IP 模式選擇： Fixed IP client：指定 IP 地址， DHCP client：DHCP 自動獲取 IP， PPPoE client：PPPoE 撥號模式。
2. Fixed IP setting	指定 IP 地址： IP Address：主機 IP 位址。 Subnet mask：子網路遮罩。 Default Gateway：預設閘道地址。
3. PPPoE setting	PPPoE 撥號設定： User name：輸入 PPPoE 帳號。 Password：PPPoE 密碼。

4.4.2 LAN Setup

1. Bridge	開啓橋接器功能。
2. NAT	開啓 IP 分享器功能。

4.4.3 DNS

1. Primary DNS	主要 DNS 設定。
2. Secondary DNS	備用 DNS 設定。

4.4.4 VLAN

1. Activation	設定 VLAN 是否開啓。
2. VID	設定本機的虛擬網路識別碼。

4.4.5 Status

可以用 UP/Down 查看話機的 IP 位址及 MAC 號碼。

4.4.6 LAN Speed

1. Auto	自動調節局域網速度
2. 100M Full	設定 100M 速度

3. 100M Half	設定相當於 100M 速度
4. 10M Full	設定 10M 速度
5. 10M Half	設定相當於 10M 速度

4.5 SIP setting

如果需要對該項進行設定,請先進 Administrator 子目錄 System authent 項輸入密碼 (預設值為 test)。

如果密碼不正確 LCD 會顯示 “Incorrect”,密碼正確 LCD 顯示 “Correct”,當密碼被確認後再進入 SIP setting.

4.5.1 Service domain

1. First realm	註冊第一個 SIP 帳號。 Activation：選擇是否註冊本帳號。 Display name：LCD 顯示名稱。 User name：用戶名,使用的號碼,在此設定本話機之電話號碼。 Register name：註冊帳號名。 Register password：註冊密碼。 Domain server：網域功能變數名稱。 Proxy server：要登錄的語音匝道器的 IP 位地址或者網域功能變數名稱。 Outbound proxy：語音代理伺服器。
2. Second realm	註冊第二個 SIP 帳號,設置項功能同上。
3. Third realm	註冊第三個 SIP 帳號,設置項功能同上。

4.5.2 Codec

1. Codec type	設置語音編碼格式。
2. VAD	設置是否開啓動態語音檢查功能。

4.5.3 RTP setting

1. Outband DTMF	Outband DTMF 啓動、停止設置。
2. Duplicate RTP	語音封包重傳次數設置。

4.6 NAT transversal

STUN setting	STUN：是否採用 STUN 協議。
	STUN server：STUN 伺服器地址。

4.7 Administrator

1. Auto config	話機自動控制：Config mode：選擇控制模式 (Disable/TFTP/FTP)。 TFTP server：TFTP 控制伺服器位址。 FTP server：FTP 控制伺服器位址。
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	FTP Login Name：FTP 服務器登錄名。 FTP Password：FTP 服務器登錄密碼。
2. Default setting	話機預設值設定：Load default：載入預設值。 Abort：放棄操作。
3. System Authent	供“root”用戶輸入密碼登錄話機以具有權限進入 SIP Setting 功能表項。
4. Version	查看話機軟體版本。
5. Watch dog	話機監控。
6. Restart	重新啓動話機。

五· 網頁設定

進入話機 Network/Status 項取得話機 IP 位址,然後在要與之連接的電腦上設定相同網段的 IP 位址,設定 IPF2002PoE 的 IP 與電腦處於同一網段 (IP 位址前三段一樣,最後一段主機位址不同即可) 然後在電腦的網路瀏覽器的位址欄輸入 “http://IPF2002PoE IP:9999 ” 進入網頁設定登錄介面,輸入 username 和 password。話機出廠預設的三個使用者是 “root”, “system” 和 “user”,密碼均為 “test” (使用者可以自行更改)。輸入完密碼後,按 Login 便可以進入 IPF2002PoE 的網頁設定畫面。

網頁設定中,每頁設定完後按下 submit 鍵後,方可送出該設定值,然後按下左邊欄位的 save change 鍵後,按下彈出 save 按鍵,待話機重新啓動完畢後,方可儲存全部修改頁面。

5.1 Information

系統基本資訊,可以看到軟體的版本資訊。

Model Name	產品型號
Firmware Version	Firmware 軟體的版本
Codec Version	Codec 軟體的編譯日期

System Information

This page illustrate the system related information.

Model Name: IPF2002PoE
Firmware Version: V1.0.0.2
Codec Version: Fri Aug 10 16:29:49 2007.

5.2 Phone Setting

5.2.1 Phone Book

當使用者輸入之號碼後,隨即進入[Phone Book]內之[Name]欄位比對是否有符合之號碼,如果有找到符合之資料,則依照[URL]欄位設定去執行撥號;如果在[Name]欄位沒有找到符合之資料,就直接送出該撥號的號碼。

Phone Book Page:

Phone	Name	URL	Select
0	fang	1857	<input type="checkbox"/>
1	kinyo	-8994000	<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"/>

Delete Selected

Delete All

Reset

Add New Phone

Position: (0~139)

Name:

URL:

Add Phone

Reset

PHONE Book	
欄位名稱	說明
Delete Selected	刪除按鈕。刪除所選擇項內容。
Delete All	刪除按鈕。刪除所有內容。

Position	在填入欄裏填寫所對應的序號,隨後填入的號碼將寫到對應欄位裏。
Name	輸入撥號代碼。
URL	輸入外撥號碼或 IP 位置資料。
Add Phone	新增此筆資料。(可填入 140 個電話號碼)
Reset	清除已設定之資料。

5.2.2 Speed Dial

Phone	Name	URL	Select
0			<input type="checkbox"/>
1	fang	1857	<input type="checkbox"/>
2	kinyo	-8994000	<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"/>

Delete Selected

Delete All

Reset

Add New Phone

Position: (0~9)

Name:

URL:

Add Phone

Reset

Speed Dial	
欄位名稱	說明
Delete Selected	刪除按鈕。刪除所選擇項內容。
Delete All	刪除按鈕。刪除所有內容。
Position	在填入欄裏填寫所對應的序號,隨後填入的號碼將寫到對應欄位裏。
Name	輸入撥號代碼。
URL	輸入外撥號碼或 IP 位置資料。
Add Phone	填寫完後按下此鍵,名字和號碼將填入到對應的欄位中。(可填入 10 個快速撥號號碼)
Reset	清除已設定之資料。

5.2.3 Dial Plan Setting

撥號計畫,提供加碼與減碼功能。

Dial Plan

You could the set the dial plan in this page.

Drop prefix : Yes No
 Replace rule 1: 0 + 13+7xxxxxxxxxxxx+2+7xxxxxxxxxx
 Drop prefix : Yes No
 Replace rule 2: 0 + 0086+00xx
 Drop prefix : Yes No
 Replace rule 3: +
 Drop prefix : Yes No
 Replace rule 4: +
 Auto Dial Time: 6 (3~9 sec)
 Submit Reset

Dial Plan Setting	
欄位名稱	說明
Drop Prefix	預設為 No (加碼)。當設定為 Yes (減碼)時,則執行減碼的動作。 設定 4 組資料 - No (加碼): 當 rule 符合時,則直接加碼。可輸入 7 位數。 - Yes (減碼): 當 rule 符合時,則減掉符合之代碼再加碼。可輸入 39 位數。
Replace rule1	設定撥號規範。 +: 或。 xxx: 指定碼長。
Auto Dial Time	預設為 5(秒)。等待多久後自動執行撥號。
Submit	執行儲存變更設定。
Reset	清除已設定之資料。

5.2.4 Call Forward

All Forward:	<input checked="" type="radio"/> Off <input type="radio"/> On
Busy Forward:	<input checked="" type="radio"/> Off <input type="radio"/> On
No Answer Forward:	<input checked="" type="radio"/> Off <input type="radio"/> On

	Name	URL
All Fwd No.:	<input type="text"/>	<input type="text"/>
Busy Fwd No.:	<input type="text"/>	<input type="text"/>
No Answer Fwd No.:	<input type="text"/>	<input type="text"/>

No Answer Fwd Time Out:	<input type="text" value="3"/> (2~8 Ring)
-------------------------	---

Forward Setting	
欄位名稱	說明
All Forward	全部轉接。打進來的所有電話都轉撥到指定號碼。
Busy Forward	遇忙轉接。電話忙線時,啓用轉撥功能。即當電話打進來後,若電話占線,則將轉撥到指定號碼。
No Answer Forward	無應答轉接。電話無人應答時,啓用轉撥功能。即當電話打進來後,在震鈴逾時後,則將轉撥到指定號碼。
All Fwd No	全部轉接號碼。填入開啓全部轉接後對應的轉撥姓名和電話號碼。
Busy Fwd No	遇忙轉接號碼。填入開啓遇忙轉接後對應的轉撥姓名和電話號碼。
No Answer Fwd No	無應答轉接號碼。填入對應的無人接聽電話時轉撥的姓名和電話號碼。
No Answer Fwd Time Out	設定無應答響鈴時長,超過此響鈴次數,話機會進入無應答轉接狀態。
Submit	執行儲存變更設定。
Reset	清除已設定之資料。

5.2.5 Call Waiting Setting

Call Waiting:	<input checked="" type="radio"/> On <input type="radio"/> Off
<input type="button" value="Submit"/> <input type="button" value="Reset"/>	

Call Waiting	
欄位名稱	說明
Call Waiting	來電等待。設定當前話機使用來電等待功能。本機和 A 通話時, B 撥入,本機會每隔 3 秒聽到“嘟嘟”兩聲,此時按下“HOLD”鍵來保留 A 並接聽 B 的電話,並且可以按“hold”鍵在 A 和 B 之間切換通話。
Submit	執行儲存變更設定。
Reset	清除已設定之資料。

5.2.6 DND Setting

DND Setting	
欄位名稱	說明
DND Always	拒接所有撥入電話,選擇 on 後所有打入的電話將聽到忙線音,off 為不使用。
DND Period	某時段拒接設定。阻止某段時間打入的電話。From 中填入開始時間,To 為截至時間。
Submit	執行儲存變更設定。
Reset	清除已設定之資料。

5.2.7 Volume Setting

Volume Setting

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

Handset Volume: (0~15)
 Speaker Volume: (0~12)
 Ringer Volume: (0~10)
 Handset Gain: (0~15)
 Speaker Gain: (0~15)

Volume Setting	
欄位名稱	說明
Handset Volume	設定聽筒輸出音量大小
Speaker Volume	設定免持輸出音量大小
Ringer Volume	設定震鈴音量大小
Handset Gain	設定話筒輸入音量大小
Speaker Gain	設定免持輸入音量大小
Submit	執行儲存變更設定。
Reset	清除已設定之資料。

5.2.8 Melody Setting

Ringer Setting

You could set your favorite ringer in this page.

Ringer: On Off

Ringer Type:

Ringer Setting	
欄位名稱	說明
Ringer	是否開啓使用者設定鈴聲,On 開啓,Off 爲關閉。選擇 off 爲默認第一種鈴聲。
Ringer Type	選擇鈴聲模式,一共有四種模式可供選擇。
Submit	執行儲存變更設定。
Reset	清除已設定之資料。

5.3 Networking

5.3.1 Status

Interface 0	
Type:	Fixed IP Client
IP:	192.168.1.11
Mask:	255.255.255.0
Gateway:	192.168.1.1
DNS Server 1:	202.96.128.68
DNS Server 2:	168.95.1.1

Status	
欄位名稱	說明
Type	顯示 IP 地址類型
IP	顯示 IP 地址
Mask	顯示子網路遮罩
Gateway	顯示已設定的預設開道的 IP 地址
DNS Server 1	顯示已設定的主要的網路功能變數名稱地址
DNS Server 2	顯示已設定的備用的網路功能變數名稱地址

5.3. 2 WAN Setting

WAN Setting

You could configure the WAN settings in this page.

Network Setting	
欄位名稱	說明
LAN Mode	Bridge:開啓橋接器功能。 NAT:開啓路由器功能
IP Type	IP 類型。依實際網路環境選擇適當的網路型態: <ul style="list-style-type: none"> ● Fixed IP選擇後需將 Local IP、Subnet Mask、Gateway IP、DNS 等欄位填入相關資料。 ● DHCP Client選取後會由 DHCP server 取得相關 IP 資料。 ● PPPoE ADSL 上网方式用戶選擇。
IP	設定 WAN 的 IP 位址。
Mask	設定 WAN 的子網路遮罩位址

Gateway	設定 WAN 的預設閘道的 IP 地址
DNS Server 1	設定 WAN 的主要 DNS 的 IP 位址
DNS Server 2	設定 WAN 的備用 DNS 的 IP 位址
MAC	本機網路卡號
Host Name	設定主機名。在網路伺服器上訪問設備所顯示的主機名。
PPPoE Setting	
User Name	選取 PPPoE 時,設定用戶的 ADSL 帳戶名。
Password	選取 PPPoE 時,設定用戶的 ADSL 帳戶的密碼。
Submit	執行儲存變更設定。
Reset	清除已設定之資料。

5.3. 3 DDNS Setting

DDNS Setting	
欄位名稱	說明
DDNS	設定使用 DDNS。
Host Name	DDNS 伺服器主機名。
User Name	DDNS 伺服器註冊帳戶。
Password:	帳戶密碼。
E-mail Address	電子郵件位址。
DDNS Server	DDNS 的 IP 位址或功能變數名稱。

DDNS Server List	DDNS 服務提供者列表。
Type	選擇 DDNS 工作模式。
Wild card	選擇是否啓用 Wild Card 功能
Back MX	選擇是否啓用 Back MX 功能
Off Line	選擇是否啓用 DDNS 的 Off Line 功能
Submit	執行儲存變更設定。
Reset	清除已設定之資料。

5.3.4 VLAN Setting

VLAN Setting	
欄位名稱	說明
VLAN Packets	預設為 Off(不執行)。當設定為 On (執行)時,則啓動接收 VALN Packets 功能。
VID	預設為 136。設定 VLAN Server 提供之虛擬區域網路識別碼 (Virtual LAN ID, 簡稱 VLAN ID 或 VID)。
User Priority	預設為 0。設定使用者優先權(user priority),優先權範圍為 0~7。
CFI	預設為 1。設定一個位元之「制式格式指示」 Canonical Format Indicator (CFI)。 CFI = 1 表示標籤頭中包含 RIF 欄位,而且 RIF 中的 NCFI 旗標值決定訊框資料中所攜帶的 MAC 位址是「制式格式」 (Canonical Format)或「非制式格式」 (Non-Canonical Format)。 CFI=0 則表示此標籤標頭不含 RIF 欄位,而且訊框中所包裝的 MAC 位址是「制式格式」。
NAT VLAN Setting	
VLAN Packets	預設為 Off(不執行)。當設定為 On (執行)時,則啓動接收 VALN Packets 功能。

VID1 ~ 4	預設為 136。設定 VLAN Server 提供之虛擬區域網路識別碼 (Virtual LAN ID, 簡稱 VLAN ID 或 VID)。
Submit	執行儲存變更設定。
Reset	清除已設定之資料。

5.3. 5 SNTP Setting

SNTP: On Off

Primary Server:	time.windows.com
Secondary Server:	208.184.49.9

Time Zone:	GMT + 08 : 00 (hh:mm)
Sync. Time:	1 : 0 : 0 (dd:hh:mm)

SNTP Setting	
欄位名稱	說明
SNTP	設定使用時間伺服器,on 為使用,off 不使用。
Primary Server	主伺服器,填寫主時間伺服器地址。
Secondary Server:	次伺服器,填寫副時間伺服器地址。
Time Zone	時區,填入當地時區。
Sync. Time	自動對時週期設定。
Submit	執行儲存變更設定。
Reset	清除已設定之資料。

5.4 NAT Router

5.4.1 LAN Setting

LAN Setting	
欄位名稱	說明
IP	在開啓 NAT 功能後,LAN 埠將自己成爲另一個虛擬網域。
Mask	設定 LAN 端子網路遮罩。
DHCP Server	開啓 DHCP 伺服器服務。
Start IP	設定 DHCP 分配的起始 IP 其數據不能大於 255。
End IP	設定 DHCP 分配的終止 IP 其數據不能大於 255。
Lease Time	租約時間。由 DHCP 伺服器提供,指定 IP 位址可以使用的時間。
Submit	執行儲存變更設定。
Reset	清除已設定之資料。

5.4.2 DMZ Setting

提供設定 DMZ 功能。

DMZ Setting	
欄位名稱	說明

DMZ	預設為 Off(不執行)。當設定為 On (執行)時,所有的封包(除了 SIP 相關)都會往該 IP 位置傳送。
DMZ Host IP	輸入指定的 IP Address。
Submit	執行儲存變更設定。
Reset	清除已設定之資料。

5.5 SIP setting

5.5.1 Service Domain

SIP Proxy Server 1 (Default)

Active: On Off

Display Name:

User Name:

Register Name:

Register Password:

Domain Server:

Proxy Server:

Outbound Proxy:

Subscribe for MWI: On Off

Status: Registered

SIP Proxy Server 2

Active: On Off

Display Name:

User Name:

Register Name:

Register Password:

Domain Server:

Proxy Server:

Outbound Proxy:

Subscribe for MWI: On Off

Status: Registered

SIP Proxy Server 3

Service Domain	
欄位名稱	說明
Active	帳號選擇。 此頁中可填入 3 個不同帳號,並且同時註冊上,當選擇 on 時為使用當前欄,再在當前欄填入對應註冊帳號。

	撥出的號碼以註冊的第一個號碼為主(以選取 on 選項的第一個選項欄為首選)。第一個帳號註冊不上將自動跳轉到第二個註冊上的帳號,撥入到註冊上的任一號碼都可以接聽到電話。
Display Name	LCD 顯示名稱
User Name	用戶名,使用的號碼,在此設定本話機之電話號碼。
Register Name	註冊帳號名。
Register Password	註冊密碼。
Domain Server	網域功能變數名稱。
Proxy Server	要登錄的語音閘道器的 IP 位地址或者網域功能變數名稱。如果特殊埠號則加 :埠號。
Outbound Proxy	語音代理伺服器。如果特殊埠號則加 :埠號。
Subscribe of MWI	預設為 Off(不執行)。當設定為 On (執行)時,週期性的傳送“來話訊息留言偵測”的動作。
Status	註冊狀態,Registered 為註冊成功,Not Registered 為註冊失敗。
Submit	執行儲存變更設定。
Reset	清除已設定之資料。

5.5.2 Port Setting

Port Setting	
欄位名稱	說明
SIP Port	SIP 協定註冊埠,預設值為 5060。
RTP Port	RTP 埠號指語音傳送與接收的埠號。埠號可在 10-65533 的範圍內選用,但一定為偶數。
Submit	執行儲存變更設定。
Reset	清除已設定之資料。

5.5.3 Codec Setting

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: G.726 - 16

Codec Priority 6: G.726 - 24

Codec Priority 7: G.726 - 32

Codec Priority 8: G.726 - 40

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

Codec Setting	
欄位名稱	說明
Codec Priority	編解碼選擇。選擇編解碼的優先權（以 Codec Priority 1 為首選），及語音編解碼格式。
G.723 5.3K:	使用 g.723 語音編解碼時，設定 on 為使用 5.3K/S 之 Codec。
Voice VAD	使用動態語音檢測。
Submit	執行儲存變更設定。
Reset	清除已設定之資料。

5.5.4 Codec ID Setting

G726 各編解碼的設定及 RFC 2833 的設定,建議使用預設值,除非註冊平臺有其他要求。

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

5.5.5 DTMF Setting

- RFC 2833
 Inband DTMF
 Send DTMF SIP Info

DTMF Setting	
欄位名稱	說明
RFC2833	使用 rfc2833 方式傳送 DTMF 訊號。
Inband DTMF	使用 Inband DTMF 方式傳送 DTMF 訊號。
Send DTMF SIP Info	使用 SIP Info 方式。
Submit	執行儲存變更設定。
Reset	清除已設定之資料。

5.5.6 STUN Setting

STUN: On Off

STUN Server:	<input type="text" value="stun.xten.com"/>
STUN Port:	<input type="text" value="3478"/> (1024~65535)

STUN Setting	
欄位名稱	說明
STUN	設定是否使用 STUN 協定。
STUN Server	STUN 服務器位址。
STUN Port	STUN 埠號。
Submit	執行儲存變更設定。
Reset	清除已設定之資料。

5.5.7 RPort Setting

RPort: On Off

RPort Setting	
欄位名稱	說明
On/Off	設定是否使用 RPort 協定。
Submit	執行儲存變更設定。
Reset	清除已設定之資料。

5.5. 8 Other Setting

Hold by RFC: On Off

Voice QoS (Diff-Serv): (0~63)

SIP QoS (Diff-Serv): (0~63)

SIP Expire Time: (30~86400 sec)

Other Setting	
欄位名稱	說明
Hold by RFC	RFC 選擇使用。此資訊由服務商提供。
Voice QoS	語音服務品質。
Sip QoS	SIP 服務品質。
SIP Expire Time	SIP 包傳送時間。
Submit	執行儲存變更設定。
Reset	清除已設定之資料。

5.6 Others

5.6. 1 Auto Config

Auto Configuration: Off TFTP FTP HTTP

TFTP Server:

HTTP Server: Exp. 60.35.187.30

HTTP File Path: Exp. /download/

FTP Server: Exp. 60.35.187.31

FTP Username:

FTP Password:

FTP File Path: Exp. /file/load

Auto Config	
欄位名稱	說明
Auto Configuration	預設為 Off(不執行)。自動更新環境設定方式,提供 TFTP,FTP 及 HTTP 等三種方式。

TFTP Server	設定 TFTP Server 位置,可以輸入 IP 或 Domain Name 資料。
HTTP Server	設定 HTTP Server 位置,可以輸入 IP 或 Domain Name 資料。
HTTP File Path	設定路徑名稱,例如: /123/。
FTP Server	設定 FTP Server 位置,可以輸入 IP 或 Domain Name 資料。
FTP Username	登入 FTP Server 之使用者(User name)帳號資料。
FTP Password	登入 FTP Server 之密碼(Password)帳號資料。
FTP File Path	設定路徑名稱,例如: /123/。
Submit	執行儲存變更設定。
Reset	清除已設定之資料。

5.6.2 Firmware Upgrade

Method: Local PC TFTP

Local PC	
Code Type:	Risc
File Location:	<input type="text"/> 浏览...

TFTP	
TFTP Server:	192.168.1.250

Ohter Setting	
欄位名稱	說明
Method	選擇使用 Local PC 方式或 TFTP 升級方式更新軟體。
Code Type	選擇更新程式編碼類型,可選擇 Risc 和 DSP 類型。
File Location	選擇升級程式位址。
TFTP Server	填寫升級的 tftp server 的 IP 位址。
Submit	執行儲存變更設定。
Reset	清除已設定之資料。

5.6.3 Auto Update

自動版本更新的功能,供提供更新 gz 或 ds 檔案格式;

Update via:	<input checked="" type="radio"/> Off <input type="radio"/> TFTP <input type="radio"/> FTP <input type="radio"/> HTTP	
TFTP Server:	<input type="text"/>	
HTTP Server:	<input type="text"/>	Exp. 60.35.187.30
HTTP File Path:	<input type="text"/>	Exp. /download/
FTP Server:	<input type="text"/>	Exp. 60.35.187.31
FTP Username:	<input type="text"/>	
FTP Password:	<input type="text"/>	
FTP File Path:	<input type="text"/>	Exp. /file/load
Check new firmware:	<input type="radio"/> Power ON <input checked="" type="radio"/> Scheduling	
Scheduling (Date):	<input type="text" value="14"/>	(1~30 days)
Scheduling (Time):	<input type="text" value="AM 00:00- 05:59"/>	<input type="button" value="↓"/>
Automatic Update:	<input checked="" type="radio"/> Notify only <input type="radio"/> Automatic	
Firmware File Prefix:	<input type="text" value="PHONEO"/>	
Next update time:	<input type="text"/>	

Auto Update	
欄位名稱	說明
Update via	預設為 Off(不執行更新)。版本自動更新方式,提供 TFTP,FTP 及 HTTP 等三種方式。
Check new Firmware	預設為 Scheduling(依照時間排程)。檢查是否有新的版本提供,提供 Power ON (每次開機)或 Scheduling(按照排程)。 - Power On(開機檢查): Power on + Scheduling,即每次開機時及依照時間排程檢查是否有新的版本可供更新。 - Scheduling: 依照時間排程檢查是否有新的版本可供更新。
Scheduling (Date)	預設為 14 天。每隔幾天去檢查一次,提供最短為 1 天,最長為 30 天。
Scheduling (Time)	預設為 AM 00:00 - 05:59。每次去檢查的時間區段,詳細的時間為隨機產生。提供四個區段分別為 AM 00:00 - 05:59, AM 06:00 - 11:59, AM 12:00 - 17:59, AM 18:00 - 23:59。
Automatic Update	預設為 Notify only (發送訊息通知)。自動更新的方式,提供 Notify only(發送訊息通知),Automatic(自動執行更新)。 - Notify only: 發訊息通知有新的版本,但不執行自動更新的動作;Phone: LCD 會有提示訊息 “Found new S/W”,用戶可以選擇是否更新為新的軟件。 - Automatic: 在 Scheduling 已設定的條件下自動執行版本更新的動作,在

	POWER ON 時需用戶自己選擇是否更新為新的軟件。
Firmware File Prefix	預設為產品型號。檢查符合產品型號之版本資料。
Next update time	下次檢查或更新之日期與時間資料。
Submit	執行儲存變更設定。
Reset	清除已設定之資料。

5.6. 4 Default Setting

所有設定值將會恢復出廠之設置

Restore default settings:

5.6. 5 Advanced Setting

Advanced Setting	
欄位名稱	說明
ICMP Not Echo	啓動不回應 ping 的訊息。預設為 No (不執行)。
Send Anonymous CID	啓動去電保密功能,不送本機之號碼資料。預設為 No (不執行)。
Send Flash event	送 flash event 格式,提供 DTMF Event 及 SIP Info 二種格式。預設為 Disable (不執行)。
SIP Encrypt	SIP 加密方式,提供 INFINET, AVS, WALKERSUN1, WALKERSUN2 四種格式。預設為 Disable (不執行)。僅提供有此服務之環境使用。
Submit	執行儲存變更設定。
Reset	清除已設定之資料。

5.6. 6 System Auth

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

System Auth	
欄位名稱	說明
New username	使用者名。
New password	設定新使用者密碼。
Confirmed password	確認密碼。
Submit	執行儲存變更設定。
Reset	清除已設定之資料。

5.7 Save Change

儲存所有設定並重新啓動

Save Changes:

5.8 Reboot

不儲存更改的設定並重新啓動

Reboot system:

六・產品規格

語音介面	
來電控制協定	SIP v1 (RFC 2543), v2 (RFC 3261)
語音壓縮	G.711 (64k bit/s, PCM), G.723.1 (6.3k / 5.3k bit/s), G.726 (16k / 24k / 32k / 40k bit/s, ADPCM), G.729A (8k bit/s, CS-ACELP), G.729B (adds VAD & CNG to G.729)
延遲 (點對點)	< 100ms
回音抵消	Packet Loss Compensation, Adaptive Jitter Buffer, VAD (Voice activity detection), CNG (Comfortable noise generator), AEC (Acoustic echo canceller), G.165 (LEC, Line echo canceller), G.168 (EC, Digital network echo canceller)
通話平均流量	5.3K(G.723.1) ~ 64K(G.711) bps
其他支援	In-Band DTMF, Out-of Band DTMF, SIP Info
區域網路介面	
介面規格	10/100Mbps Fast Ethernet (採用基於乙太網供電的 IEEE 802.3af 標準 (Power-over-Ethernet))
介面連接器	RJ-45 Connector
管理工具	網頁瀏覽器 / LCD 選單
支援網路協定	Static IP / DHCP Client / PPPoE Client / TFTP Client / HTTP Server / DNS Client / Telnet / SNTP / RTP / RTCP / DDNS
韌體更新	HTTP / TFTP / FTP
來電支援	Call Hold / Call Waiting / Call Forward / Call Transfer / Caller ID / Call Block / 3-way Conference
其他規格	
電源	100 - 240VAC, 50 - 60Hz, 9VDC (選配)
耗電量	6W
工作環境	工作溫度：0 ~ 40°C (32° ~ 104°F)
	儲存溫度：-30 ~ 65°C (-22° ~ 149°F)
	相對濕度：10 ~ 95% Non-Condensing
重量	0.60kg
認證	CE / FCC
尺寸	219mm *155 mm *75 mm
其他	140 筆資料的電話簿
	NAT 穿透 (STUN / uPnP / R-Port)
	網路狀況顯示、韌體更新、無應答轉接、忙線轉接、來電直接轉接、網頁式管理設定介面等等,LED 指示燈(未注冊時閃爍,注冊成功後常亮)。

七.常見問題與排解 (Q&A)

1. 怎樣確定 IPF2002PoE 註冊成功？

答：如果 IPF2002PoE 帳號註冊成功,IPF2002PoE LCD 會正確顯示您註冊的帳號。如果 LCD 顯示幕顯示 No Service 則表示註冊不成功。一般 IPF2002PoE 在 2 分鐘內能註冊成功。

2. 接上電源後,話機啓動後 LCD 顯示幕顯示 ETHERNET ERROR,這是爲什麼？

答：這時請您檢查連接線路是否有鬆動,是否有連接網路線。如果連接正常,請檢查您的網路是否正常。

3. 如果停電了是否會影響正常打電話？

答：停電後,IPF2002PoE 通過 PSE 設備供電，話機還能保持正常工作。

4. 如何正確撥打電話？

答:拿起話筒,聽到撥號音後,即可撥打網路電話。

5. 保留通話(HOLD)如何使用？

答：當正在接聽電話時,通過按一下 Hold 鍵可以保留對方,再按下一次將恢復通話。

6. 如何使用來電等待(Call Waiting)?

答: 當正在通話時,從話機聽筒傳出“嘟嘟”兩聲,表示有插撥進來, 若想接聽插撥, 可以按 <HOLD> 鍵, 就可以接聽插撥了。以後按<HOLD>鍵可以在兩通電話之間切換。

7. 怎樣實現電話轉接？

答：(1) 三方會談：

- 與使用者 A 建立通話。
- 通話中按下<HOLD>鍵將 A 通話保留,待聽到撥號音後撥打欲轉接之目標號碼 (B)。
- 接通 B 後,告知有來電並詢問接聽意願。
- 如果 B 不願意接聽,或轉接 (諮詢) B 失敗,請按下<hold>鍵取消轉接並取回與 A 之通話。
- 如果 B 願意接聽,按下<CONF>鍵,進入三方會談。

(2)來電轉移：

Blind Transfer (直接轉移)

B 來電 A, A 與 B 在通話的過程中,A 執行轉接給第三方,A 先按[Hold]鍵 Hold 住與 B 的通話,再按 [Transfer/Flash]鍵接著輸入第三方的號移碼,結束加"#字鍵；即可將電話轉給第三方。

Attendant Transfer(間接轉移)

B 來電 A,A 與 B 在通話的過程中,A 執行轉接給第三方,A 按[Transfer/Flash]鍵接著輸入第三方的號碼,結束加"#字鍵；則第三方開始響鈴,A 與 C 通話後,A 掛斷電話,則 B 與 C 可以互相通話。

8. 速撥鍵(SPEED DIAL) 要怎麼用？

答：先在網頁“Phone Setting—Speed Dial Setting”裏或者話機選單“Phone book—Speed dial”裏設定您需要快速撥號的號碼,然後拿起聽筒或者按下免持鍵後,按下對應的快速撥號號碼,接著按下#號鍵後速撥完畢。

9. 如果你聽到有雜音要怎麼辦？

答：請把音量降低,建議用 10 或用預設值

10. Dial plan 設定範例

Dial Plan

You could the set the dial plan in this page.

範例 1: Drop prefix: No, Replace rule 1: 002, 8613+8662。

說明 1：當撥號時有輸入 8613 時,只要符合 8613 開頭的號碼,全部在前面自動加上 002；則實際號碼為 [002+8613+xxx]。

說明 2：當撥號時有輸入 8662 時,只要符合 8662 開頭的號碼,全部在前面自動加上 002；則實際號碼為 [002+8662+xxx]。

範例 2：Drop prefix: Yes, Replace rule 2: 006, 002+003+004+005+007+009；

說明 1：當撥號時有輸入 002 時,只要符合 002 開頭的號碼,全部將 002 開頭的號碼,置換成 006；則實際號碼為[006+xxx]。

說明 2：當撥號時有輸入 003 時,只要符合 003 開頭的號碼,全部將 003 開頭的號碼,置換成 006；則實際號碼為[006+xxx]。

範例 3: Drop prefix: No, Replace rule 3: 009, 12。

說明 1：當撥號時有輸入 12 時,只要符合 12 開頭的號碼,全部在前面自動加上 009；則實際號碼為 [009+12+xxx]。

範例 4:Drop prefix: No, Replace rule 4: 007, 5xxx+35xx+21xx。

說明 1：當撥號時有輸入 5xxx 時,要符合 5 開頭,後面接著 3 碼的資料；全部在前面自動加上 007；則實際號碼為[007+5xxx]。

說明 2：當撥號時有輸入 534 時,符合 5 開頭,後面接著 2 碼的資料；不符合加碼規則;實際號碼為[534]。

說明 3：當撥號時有輸入 35xx 時,要符合 35 開頭,後面接著 2 碼的資料；全部在前面自動加上 007；則實際號碼為[007+35xx]。

說明 4: 當撥號時有輸入 358822 時,符合 35 開頭,後面接 4 碼的資料; 不符合加碼規則;實際號碼為[358822]。

11.如何多個 SIP 平臺切換?

如果話機已同時設定好 2-3 個 SIP 平臺帳號,若要切換到想使用的平臺則請照下列方法操作。

例如話機同時設定有 ABC 三個 SIP 平臺,A 為預設平臺,此時話機 LCD 會顯示 A 平臺的電話號碼;要由 A 平臺切換到 B 平臺則:

1.舉起話筒或按下免持鍵切換到 IP 撥號模式。

按 2*。

掛上話筒或按免持鍵保持話機待機狀態此時話機 LCD 會顯示 B 平臺的電話號碼。

現在即可以使用 B 平臺撥打電話。

2.如果要使用 C 平臺則

舉起話筒或按下免持鍵切換到 IP 撥號模式

按 3*。

掛上話筒或按免持鍵保持話機待機狀態此時話機 LCD 會顯示 C 平臺的電話號碼。

現在即可以使用 C 平臺撥打電話。

3.如果又要使用 A 平臺則

舉起話筒或按下免持鍵切換到 IP 撥號模式

按 1*。

掛上話筒或按免持鍵保持話機待機狀態此時話機 LCD 會顯示 A 平臺的電話號碼。

現在即可以使用 A 平臺撥打電話。

4.若話機重新啓動後則預設平臺為 A 平臺。

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