

# YGW30 User Manual

- 1 INTRODUCTION.....2**
  - 1.1 HARDWARE OVERVIEW .....2
  - 1.2 SOFTWARE OVERVIEW .....2
- 2 IVR INTERFACE FOR THE YGW30.....3**
- 3 SETUP THE YGW30 BY WEB BROWSER .....4**
  - 3.1 LOGIN. ....4
  - 3.2 SYSTEM INFORMATION FOR THE YGW30. ....4
  - 3.3 PHONE BOOK.....4
  - 3.4 PHONE SETTING .....5
  - 3.5 NETWORK SETTING.....9
  - 3.6 SIP SETTINGS.....11
  - 3.7 NAT TRANS.....13
  - 3.8 OTHERS .....13
  - 3.9 SYSTEM AUTH. ....14
  - 3.10 SAVE CHANGE.....14
  - 3.11 UPDATE .....15
  - 3.12 REBOOT.....15
- 4 HOW TO MAKE A PHONE CALL.....16**
- 5 GET A FWD ACCOUNT .....16**
- 6 HOW TO USE THE FXO PORT.....16**

## 1 Introduction

This user's manual is for 1-port FXS VoIP terminal adapter (YGW30). This user's manual will explain the IVR instruction, web configuration and command line configuration for the YGW30. Before using the YGW30, some setup processes are required to make the YGW30 work properly. Please refer to the Setup Menu for further information.

2RJ45 Ports, Built-in Router, conference, Auto-provision or updating by HTTP,FTP or TFTP.

For each YGW30A, it can have 3-SIP account, all can be used as caller at anytime. It can be selected among these 3-SIP account as caller by dial different dial prefix. It can be used as PSTN ordinary phone when power off.

For each YGW30B, it can have 3-SIP account and one PSTN phone number, that means each ATA own 4 phone numbers, all can be used as callee at anytime. For the caller, these 4 account can be selected by dial different relevant prefix (including switch to PSTN as an ordinary PSTN phone)

YGW30B has a real FXO port to support router call from PSTN to VOIP or from VOIP to PSTN.

### 1.1 Hardware Overview

The YGW30 has the following interfaces for Networking, telephone interface, LED indication, and power connector.

- 1.1.1 Two RJ-45 Networking interface, these two interfaces support 10/100Mbps Fast Ethernet. you can connect one RJ-45 Fast Ethernet port to the ADSL or Switch, and connect the other one to your computer.
- 1.1.2 One RJ-11 Type analog telephone jack interfaces. You can connect one analog telephone to the terminal adapter.
- 1.1.3 LED Indication: There are three LED indicators in the YGW30 to show the Power, Register, and Off-Hook indication.

### 1.2 Software Overview

Network Protocol	Tone
<ul style="list-style-type: none"> <li>• SIP v1 (RFC2543), v2(RFC3261)</li> <li>• IP/TCP/UDP/RTP/RTCP</li> <li>• IP/ICMP/ARP/RARP/SNTP</li> <li>• TFTP Client/DHCP Client/ PPPoE Client</li> <li>• Telnet/HTTP Server</li> <li>• DNS Client</li> <li>• NAT/DHCP Server</li> </ul>	<ul style="list-style-type: none"> <li>• Ring Tone</li> <li>• Ring Back Tone</li> <li>• Dial Tone</li> <li>• Busy Tone</li> <li>• Programming Tone</li> </ul>
	<b>Phone Function</b>
<b>Codec</b>	<ul style="list-style-type: none"> <li>• Volume Adjustment</li> <li>• Speed dial key</li> <li>• Phone book</li> <li>• Flash</li> </ul>
<ul style="list-style-type: none"> <li>• G.711: 64k bit/s (PCM)</li> <li>• G.723.1: 6.3k / 5.3k bit/s</li> <li>• G.726: 16k / 24k / 32k / 40k bit/s (ADPCM)</li> <li>• G.729A: 8k bit/s (CS-ACELP)</li> <li>• G.729B: adds VAD &amp; CNG to G.729</li> </ul>	<b>IP Assignment</b>
<b>Voice Quality</b>	<ul style="list-style-type: none"> <li>• SYGW30tic IP</li> <li>• DHCP</li> <li>• PPPoE</li> </ul>
<ul style="list-style-type: none"> <li>• VAD: Voice activity detection</li> <li>• CNG: ComforYGW30ble noise generator</li> <li>• LEC: Line echo canceller</li> <li>• Packet Loss Compensation</li> <li>• Adaptive Jitter Buffer</li> </ul>	<b>Security</b>
	<ul style="list-style-type: none"> <li>• HTTP 1.1 basic/digest authentication for Web setup</li> <li>• MD5 for SIP authentication (RFC2069/ RFC 2617)</li> </ul>
	<b>QoS</b>
<b>Call Function</b>	<ul style="list-style-type: none"> <li>• ToS field</li> </ul>
<ul style="list-style-type: none"> <li>• Call Hold</li> <li>• Call Waiting</li> <li>• Call Forward</li> <li>• Caller ID</li> <li>• 3-way conference</li> </ul>	<b>NAT Traversal</b>
	<ul style="list-style-type: none"> <li>• STUN</li> </ul>
	<b>Configuration</b>
<b>DTMF Function</b>	<ul style="list-style-type: none"> <li>• Web Browser</li> <li>• Console/Telnet</li> <li>• IVR/Keypad</li> </ul>
<ul style="list-style-type: none"> <li>• In-Band DTMF</li> <li>• Out-of Band DTMF</li> </ul>	

<ul style="list-style-type: none"> <li>SIP Info</li> </ul>	<b>Firmware Upgrade</b>
<b>SIP Server</b>	
<ul style="list-style-type: none"> <li>Registrar Server (three SIP account)</li> <li>Outbound Proxy</li> </ul>	<ul style="list-style-type: none"> <li>TFTP</li> <li>Console</li> <li>HTTP</li> </ul>

## 2 IVR Interface for The YGW30

You can use the PSTN phone to configure the YGW30. Please follow the instruction to configure your terminal adapter.

Group	IVR Action	IVR Menu Choice	Parameter(s)	Notes:
Function	unlock keypad	<b>#190#</b>	None	If you want to let user change the setting by keypad.
Function	lock keypad	<b>#191#</b>	None	If you want to lock user change the setting by keypad.
Function	Reboot	<b>#195#</b>	None	After you hear "Option Successful," hang-up. The system will reboot automatically.
Function	Factory Reset	<b>#198#</b>	None	System will automatically Reboot. WARNING: ALL "User-Changeable" NONDEFAULT SETTINGS WILL BE LOST! This will include network and service provider daYGW30.
Function	enable call waiting	<b>#138#</b>	None	Enable Call waiting
Function	disable call waiting	<b>#139#</b>	None	Disable call waiting
Info	Check IP Address	<b>#120#</b>	None	IVR will announce the current IP address of the YGW30
Info	Check IP Type	<b>#121#</b>	None	IVR will announce if DHCP is enabled or disabled.
Info	Check the Phone Number	<b>#122#</b>	None	IVR will announce current in use VoIP number
Info	Check Network Mask	<b>#123#</b>	None	IVR will announce the current network mask of the YGW30.
Info	Check Gateway IP Address	<b>#124#</b>	None	IVR will announce the current gateway IP address of the YGW30.
Info	Check Primary DNS Server Setting	<b>#125#</b>	None	IVR will announce the current setting in the Primary DNS field.
Info	Check Firmware Version	<b>#128#</b>	None	IVR will announce the version of the firmware running on the YGW30.
Setting	Set DHCP client	<b>#111#</b>	None	The system will change to DHCP Client type
Setting	Set SYGW30tic IP Address	<b>#112xxx*xxx*xxx*xxx#</b>	Enter IP address using numbers on the telephone key pad. Use the * (sYGW30r) key when entering a decimal point.	DHCP will be disabled and system will change to the SYGW30tic IP type.
Setting	Set Network Mask	<b>#113xxx*xxx*xxx*xxx#</b>	Enter value using numbers on the telephone key pad. Use the * (sYGW30r) key when entering a decimal point.	Must set SYGW30tic IP first.
Setting	Set Gateway IP Address	<b>#114xxx*xxx*xxx*xxx#</b>	Enter IP address using numbers on the telephone key pad. Use the * (sYGW30r) key when entering a decimal point.	Must set SYGW30tic IP first.
Setting	Set Primary DNS Server	<b>#115xxx*xxx*xxx*xxx#</b>	Enter IP address using numbers on the telephone key pad. Use the * (sYGW30r) key when entering a decimal point.	Must set SYGW30tic IP first.
Setting	Set Codec	<b>#130+[1-8]#</b>	1:G.711 u-Law, 2: G.711 a-Law, 3: G.723.1, 4: G.729a, 5: G.726 16K, 6: G.726 24K, 7: G.726 32K, 8: G.726 40K,	You can set the codec you want to the first priority.
Setting	Set Handset Gain	<b>#131+[00~15]#</b>	Handset Gain from 0~15	You can set the Handset gain to proper value, default is 6
Setting	Set Handset Volume	<b>#132+[00~12]#</b>	Handset Volume from 0~12	You can set the Handset volume to proper value, default is 10

### 3 Setup the YGW30 by Web Browser

Default the IP Phone's NAT is enabled, WAN port is in DHCP Client Mode, LAN port is in DHCP Server Mode. You can connect you PC on LAN port, and set the IP type of your PC to DHCP ,then you will get an IP Address from the IP Phone.

The IP Phone provides a built-in web server. You can use Web browser to configure the IP Phone. First please input the IP address <http://192.168.123.1> or <http://192.168.123.1:9999> in the Web page.

#### 3.1 Login.

3.1.1 Please input the username and password into the blank field. The default setting is:

1. For Administrator, the username is: root; and the password is: test. If you use the account login, you can configure all the setting.
2. For normal user, the username is: user; and the password is: test. If you use the account login, but you can not configure the SIP setting.

3.1.2 Click the “Login” button will move into the YGW30 web based management information page.

3.1.3 If you change the setting in the Web Management interface, please do remember to click the “Submit” button in that page. After you finished the change of the setting, click the “Save” function in the left side, and click the Save Button. When you finished the setting, please click the Reboot function in the left side, and click the Reboot button in that page. After the system resYGW30rt, all the setting can work properly.

#### 3.2 System Information for the YGW30.

3.2.1 When you login the web page, you can see the YGW30 current system information like firmware version, company... etc in this page.

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

#### 3.3 Phone Book

3.3.1 In Phone Book conYGW30ins Speed Dial Settings. You can setup the Speed Dial number. If you want to use Speed Dial you just dial the speed dial number (from 0~9) then press “#”.

3.3.2 In Speed Dial setting function you can add/delete Speed Dial number. You can input maximum 10 entries speed dial list.

3.3.2.1 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 finished a new phone list, just click the “Add Phone” button.

3.3.2.2 If you want to delete a phone number, you can select the phone number you want to delete then click “Delete Selected” button.

3.3.2.3 If you want to delete all phone numbers, you can click “Delete All” button.

### Speed Dial Phone List

You could set the speed dial phones in this page.

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

**Add New Phone**

Position:  (0-9)  
 Name:   
 URL:

### 3.4 Phone Setting

3.4.1 In Phone Setting conYGW30ins Call Forward, SNTP Settings, Volume Settings, Block Setting, Caller ID, Auto Dial Setting, Flash Time Setting, and Call Waiting Setting functions.

3.4.2 Call Forward function: you can setup the phone number you want to forward in this page. There are three type of Forward mode. You can choose All Forward, Busy Forward, and No Answer Forward by click the icon.

3.4.2.1 All Forward: All incoming call will forward to the number you choosed. You can input the name and the phone number in URL field. If you select this function, then all the incoming call will direct forward to the speed dial number you choose.

3.4.2.2 Busy Forward: If you are on the phone, the new incoming call will forward to the number you choosed. You can input the name and the phone number in URL field.

3.4.2.3 No Answer Forward: : If you can not answer the phone, the incoming call will forward to the number you choosed. You can input the name and the phone number in URL field. Also you have to set the Time Out time for system to sYGW30rt to forward the call to the number you choosed.

3.4.2.4 When you finished the setting, please click the Submit button.

### Forward Setting

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

All Forward:  Busy Forward:  No Answer Forward:

	Name	URL
All Fwd No.:	<input type="text" value="Line 1"/>	<input type="text" value="192.168.101.109:5062"/>
Busy Fwd No.:	<input type="text" value="Line 0"/>	<input type="text" value="192.168.101.109:5060"/>
No Answer Fwd No.:	<input type="text"/>	<input type="text"/>

Time Out:  (10~90 sec)

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

### SNTP Settings

You could set the SNTP servers in this page.

---

**SNTP:**                     On    Off

Primary Server:       

Secondary Server:   

Time Zone:            GMT   +         (hh:mm)

Sync. Time:                    (dd:hh:mm)

 

3.4.4 Volume Setting function: you can setup the Handset Volume, Ringer Volume, and the Handset Gain. When you finished the setting, please click the Submit button.

- 3.4.4.1 Handset Volume is to set the volume for you can hear from the handset.
- 3.4.4.2 Ringer Volume is to set the ringer volume for you can hear.
- 3.4.4.3 Handset Gain is to set the volume send out to the other side's handset.

### Volume Setting

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

---

Handset Volume:     (0~12)

Ringer Volume:      (0~10)

Handset Gain:       (0~15)

 

3.4.5 Block Setting function: you can setup the Block Setting to keep the phone slience. You can choose Always Block or Block a period.

- 3.4.5.1 Always Block: All incoming call will be blocked until disable this feature.
- 3.4.5.2 Block Period: Set a time period and the phone will be blocked during the time period. If the "From" time is large than the "To" time, the Block time will from Day 1 to Day 2.
- 3.4.5.3 When you finished the setting, please click the Submit button.

## Block Setting

You could set the block period of your phone in this page.

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

3.4.6 Caller ID function: you can set the device to show Caller ID in your PSTN Phone or IP Phone. There are four selection of Caller ID. You need to base on your environment to set the Caller ID function for FSK or DTMF.

## Caller ID Setting

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

Caller ID:	<input type="text" value="Don't show caller ID"/>	
Single Caller ID:	<input type="radio"/> Yes	<input checked="" type="radio"/> No
CID Without Time:	<input type="radio"/> Yes	<input checked="" type="radio"/> No

3.4.7 Auto Dial Setting function: This function is when you input the phone number by the keypad but you don't need to press "#". After time out the system will dial directly.

## Auto Dial Setting

You could the time slice to auto dial in this page.

Auto Dial Time:	<input type="text" value="5"/> (3~9 sec)
-----------------	--

3.4.8 Flash Time Setting function: When you use the PSTN Phone and you need to press the Hook to do the Flash (Switch to the other phone line or HOLD), this function is for you to set the time you press the Hook to represent the Flash function.

## Flash Time Setting

You could set the flash time in this page.

---

Flash Time:  (1~200, 1->10ms)

3.4.9 Call Waiting Setting function: When you are YGW30lking with other people, You can choose If you want to hear the notice when there is a new coming call. If the call waiting function is On, if there is a new incomeing call, you will hear the call waiting notice in your current call. If you set the function to Off, then you will not hear any notice.

## Call Waiting Setting

You could enable/disable the call waiting setting in this page.

---

Call Waiting:  On  Off

### 3.5 Network setting

3.5.1 In Network you can check the Network sYGW30tus, configure the Network Settings and DDNS settings.

3.5.2 Network SYGW30tus: You can check the current Network setting in this page.

#### Network Status

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

Interface 0	
Type:	Fixed IP Client
IP:	192.168.96.109
Mask:	255.255.240.0
Gateway:	192.168.101.1
DNS Server 1:	192.168.101.1
DNS Server 2:	0.0.0.0

3.5.3 Network Settings: You can configure the YGW30 Network setting in this page.

3.5.3.1 The TCP/IP Configuration item is to setup the LAN port's network environment. You may refer to your current network environment to configure the YGW30 properly.

3.5.3.2 The PPPoE Configuration item is to setup the PPPoE Username and Password. If you have the PPPoE account from your Service Provider, please input the Username and the Password correctly.

3.5.3.3 The Bridge Item is to setup the YGW30 Bridge mode Enable/Disable. If you set the Bridge On, then the two Fast Ethernet ports will be transparent.

3.5.3.4 When you finished the setting, please click the Submit button.

#### Network Settings

You could configure your network settings in this page.

TCP/IP Configuration	
IP Type:	<input checked="" type="radio"/> Fixed IP <input type="radio"/> DHCP Client <input type="radio"/> None
IP:	<input type="text" value="192.168.96.109"/>
Mask:	<input type="text" value="255.255.240.0"/>
Gateway:	<input type="text" value="192.168.101.1"/>
DNS Server 1:	<input type="text" value="192.168.101.1"/>
DNS Server 2:	<input type="text" value="0.0.0.0"/>
MAC:	<input type="text" value="fc11223344e9"/>
PPPoE Configuration	
PPPoE:	<input type="radio"/> On <input checked="" type="radio"/> Off
User Name:	<input type="text"/>
Password:	<input type="text"/>
Bridge	
Bridge:	<input checked="" type="radio"/> On <input type="radio"/> Off

3.5.4 DDNS Setting: You can configure the DDNS setting in this page. You need to have the DDNS account and input the informations properly. You can have a DDNS account with a public IP address then others can call you via the DDNS account. But now most of the VoIP applications are work with a SIP Proxy Server. When you finished the setting, please click the Submit button.

### DDNS Settings

You could set the configuration of DDNS in this page.

**DDNS:**  On  Off

Host Name:

User Name:

Password:

E-mail Address:

DDNS Server:

DDNS Server List:

Type:

Wild Card:

BACKMX:  On  Off

Off Line:  On  Off

3.5.5 NAT Settings: In this page you can setup the nat function. The WAN setting is for you to set how the get the IP address for the device. The LAN setting is for the other devices to get the IP address from the device. You can choose to use DHCP server or not.

### NAT Settings

You could configure your NAT settings in this page.

**LAN Setting**

IP:

Mask:

MAC:

DHCP Server:  On  Off

Start IP:

End IP:

Lease Time:  :  (dd:hh)

**WAN Setting**

IP Type:  Fixed IP  DHCP Client  PPPoE

IP:

Mask:

Gateway:

DNS Server1:

DNS Server2:

MAC:

PPPoE

User Name:

Password:

### 3.6 SIP Settings

3.6.1 In SIP Settings you can setup the Service Domain, Port Settings, Codec Settings, RTP Setting, RPort Setting and Other Settings. If the VoIP service is provided by ISP, you need to setup the related informations correctly then you can register to the SIP Proxy Server correctly.

3.6.2 In Service Domain Function you need to input the account and the related informations in this page, please refer to your ISP provider. You can register three SIP account in the YGW30. You can dial the VoIP phone to your friends via first enable SIP account and receive the phone from these three SIP accounts.

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

- 3.6.2.1.1 Display Name: you can input the name you want to display.
- 3.6.2.1.2 User Name: you need to input the User Name get from your ISP.
- 3.6.2.1.3 Register Name: you need to input the Register Name get from your ISP.
- 3.6.2.1.4 Register Password: you need to input the Register Password get from your ISP.
- 3.6.2.1.5 Domain Server: you need to input the Domain Server get from your ISP.
- 3.6.2.1.6 Proxy Server: you need to input the Proxy Server get from your ISP.
- 3.6.2.1.7 Outbound Proxy: you need to input the Outbound Proxy get from your ISP. If your ISP does not provide the information, then you can skip this item.
- 3.6.2.1.8 Register Period: you need to input the Register Period get from your ISP. This is count in minute.
- 3.6.2.1.9 You can see the Register SYGW30tus in the SYGW30tus item. If the item shows "Registered", then your YGW30 is registered to the ISP, you can make a phone call directly.
- 3.6.2.1.10 If you have more than one SIP account, you can following the steps to register to the other ISP. By default the Realm 1 is in used ,if Realm 1 is logon faild, the Realm 2 is enable.
- 3.6.2.1.11 When you finished the setting, please click the Submit button.

## Service Domain Settings

You could set information of service domains in this page.

Realm 1 (Default)	
Active:	<input checked="" type="radio"/> On <input type="radio"/> Off
Display Name:	<input type="text"/>
User Name:	<input type="text"/>
Register Name:	<input type="text"/>
Register Password:	<input type="password"/>
Domain Server:	<input type="text"/>
Proxy Server:	<input type="text"/>
Outbound Proxy:	<input type="text"/>
Status:	Not Registered

3.6.3 Port Settings: you can setup the SIP and RTP port number in this page. Each ISP provider will have different SIP/RTPport setting, please refer to the ISP to setup the port number correctly. When you finished the setting, please click the Submit button.

## Port Settings

You could set the port number in this page.

SIP Port:	<input type="text" value="5060"/> (1024~65535)
RTP Port:	<input type="text" value="60000"/> (1024~65535)
<input type="button" value="Submit"/> <input type="button" value="Reset"/>	

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

### Codec Settings

You could set the codec settings in this page.

---

Codec Priority	
Codec Priority 1:	G.729
Codec Priority 2:	G.723
Codec Priority 3:	G.711 u-law
Codec Priority 4:	G.711 a-law
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:	<input type="radio"/> On <input checked="" type="radio"/> Off

  

Voice VAD	
Voice VAD:	<input type="radio"/> On <input checked="" type="radio"/> Off

3.6.5 RTP Setting: you can setup the Out-Band DTMF and Send DTMF SIP Info Enable/Disable in this page. To change this setting, please following your ISP information. When you finished the setting, please click the Submit button. This

### RTP Setting

You could set the RTP setting in this page.

---

Outband DTMF:  On  Off

Send DTMF SIP Info:  On  Off

3.6.6 RPort Function: you can setup the RPort Enable/Disable in this page. To change this setting, please following your ISP information. When you finished the setting, please click the Submit button.

## RPort Setting

You could enable/disable the RPort setting in this page.

RPort:  On  Off

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

## Other Settings

You could set other settings in this page.

Hold by RFC:	<input type="radio"/> On <input checked="" type="radio"/> Off
Voice QoS:	<input type="text" value="40"/> (0~63)
SIP QoS:	<input type="text" value="40"/> (0~63)
SIP Expire Time:	<input type="text" value="3600"/> (0~86400 sec)

### 3.7 NAT Trans.

3.7.1 In NAT Trans. you can setup STUN function. These functions can help your YGW30 working properly behind NAT.

3.7.2 STUN Setting: you can setup the STUN Enable/Disable and STUN Server IP address in this page. This function can help your YGW30 working properly behind NAT. To change these settings please following your ISP information. When you finished the setting, please click the Submit button.

## STUN Setting

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

STUN:  On  Off

STUN Server:

### 3.8 Others

3.8.1 In Others you can set the Auto Configuration Setting and Country Setting.

3.8.2 In Auto Configuration Setting you need to check with your service provider if they have provided this function. Usually this function will be bundle with an IP PBX to use in the office.

## Auto Configuration Setting

You could enable/disable the auto configuration setting in this page.

Auto Configuration:  On  Off

3.8.3 In Country Setting is for you to set the Country, different country will have different setting in FXS interface.

## Country Setting

You could select your country setting in this page.

Select Country:

3.9 System Auth.

3.9.1 In System Authority you can change your login name and password.

## System Authority

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

New username:	<input type="text"/>
New password:	<input type="text"/>
Confirmed password:	<input type="text"/>

3.10 Save Change

3.10.1 In Save Change you can save the changes you have done. If you want to use new setting in the YGW30, You have to click the Save button. After you click the Save button, the YGW30 will automatically resYGW30rt and the new setting will effect.

## Save Changes

You have to save changes to effect them.

Save Changes:

3.11 Update

3.11.1 In Update you can update the YGW30's firmware to the new one or do the factory reset to let the YGW30 back to default setting.

3.11.2 In New Firmware function you can update new firmware via HTTP in this page. You can upgrade the firmware by the following steps:

3.11.2.1 Select the firmware code type, Risc or DSP code.

3.11.2.2 Click the "Browse" button in the right side of the File Location or you can type the correct path and the filename in File Location blank.

3.11.2.3 Select the correct file you want to download to the YGW30 then click the Update button.

## Update Firmware

You could update the newest firmware.

---

Code Type:  Risc  DSP

File Location:

3.11.3 In Default Setting you can restore the YGW30 to factory default in this page. You can just click the Restore button, then the YGW30 will restore to default and automatically resYGW30rt again.

## Restore Default Settings

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

---

Restore default settings:

3.12 Reboot

3.12.1 Reboot function you can resYGW30rt the YGW30. If you want to resYGW30rt the YGW30, you can just click the Reboot button, then the YGW30 will automatically.

## Reboot System

You could press the reboot button to restart the system.

---

Reboot system:

### 4 How to make a phone call

When your YGW30 is configured properly, you can make a phone call to your friend in the same Service provider.

If you want to make a phone call, you can dial the phone number and press “#” button to start dialing the phone number.

The YGW30 also provides some functions that list as below:

1. Call Waiting: When a new call is coming while you are on a call, you can push the Flash button to switch to the new call. You can push the Flash button to switch between the two calls.
2. Call Hold: You can push the Hold key to hold the current call for a while, then push Hold key again to keep on the call.
3. 3-way conference: If you want to make a 3-way conference call, you can make a phone call to the first phone number. After the call is established, push the Flash button then you can hear the Dial tone, then make a phone call to the second phone number. When the second call is established, press the Flash button again.

### 5 Get a FWD account

1. The website is [www.freeworlddialup.com](http://www.freeworlddialup.com); you can apply an account to use the VoIP communication. You can follow the instruction to input the information. After you finished, you will receive a mail sent by the FWD mail system, you will get the account information in the mail.
2. When you got the account, you can setup the related information into the YGW30.
3. You can setup the related information into the YGW30 by web browser. Also you can use Telnet, Console via CLI command to configure the YGW30. You need to input the Proxy Name, Domain Name, Register Name, and password. The Display Name you can input what you want to let others see.
4. After you registered to the SIP Server, you can try to call your friends who also registered in the same SIP Server. You just need to dial your friend's user name (registered name) and press “#” then you can make a phone call to your friend.
5. If you want to make a phone call to the other in the internet, first you need to register in a Proxy Server (with SIP Server IP, Domain IP, registered name, Password), make sure you already enable Stun function, then you can try.

### 6 How to use the FXO port

First, you can dial 0\* switch IP to PSTN. (Just for YGW30B)

You can use the call forward setting forward the call from IP to PSTN or from PSTN to IP.

If you want forward the IP call to a PSTN number, you can first select forward the call to PSTN,

Then assign the forward number. After above setting if the gateway receiving a call it can forward to the forward number.

6.1.1 Call Forward function: you can setup the phone number you want to forward in this page. There are three type of Forward mode. You can choose All Forward, Busy Forward, and No Answer Forward by click the icon.

6.1.1.1 All Forward: All incoming call will forward to the number you choosed. You can input the name and the phone number in URL/Number field. If you select this function, then all the incoming call will direct forward to the speed dial number you choose.

6.1.1.2 Busy Forward: If you are on the phone, the new incoming call will forward to the number you choosed. You can input the name and the phone number in URL field.

6.1.1.3 No Answer Forward: : If you can not answer the phone, the incoming call will forward to the number you choosed. You can input the name and the phone number in URL field. Also you have to set the Time Out time for system to start to forward the call to the number you choosed.

6.1.1.4 When you finished the setting, please click the Submit button.

## Forward Setting

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

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

	Name	URL/Number
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)
-------------------------	---

You can set the Auto Answer function to answer the incoming call by the phone. If the call is come from the IP, then the TA can let user to redial the call to PSTN phone number. If the call is coming from PSTN, then the TA can let user to redial to IP Phone number. Auto Answer Counter is to set after the ring count meet the number you set then the auto answer will enable. For security issue, You'd better to set the PIN Code. If you have set the PIN code, you will hear a tone to inform you input the PIN Code then you can dial out.

## Auto Answer

You could enable/disable the auto answer in this page.

Auto Answer:	<input type="radio"/> On	<input checked="" type="radio"/> Off
Auto Answer Counter:	<input type="text" value="03"/> (1~8)	

PIN Code Enabled:	<input type="radio"/> On	<input checked="" type="radio"/> Off
PIN Code:	<input type="text"/>	