

# GP-710/GP-712 Wireless VoIP Gateway

## User Manual



Gempro Technology Inc.

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## 1 Introduction

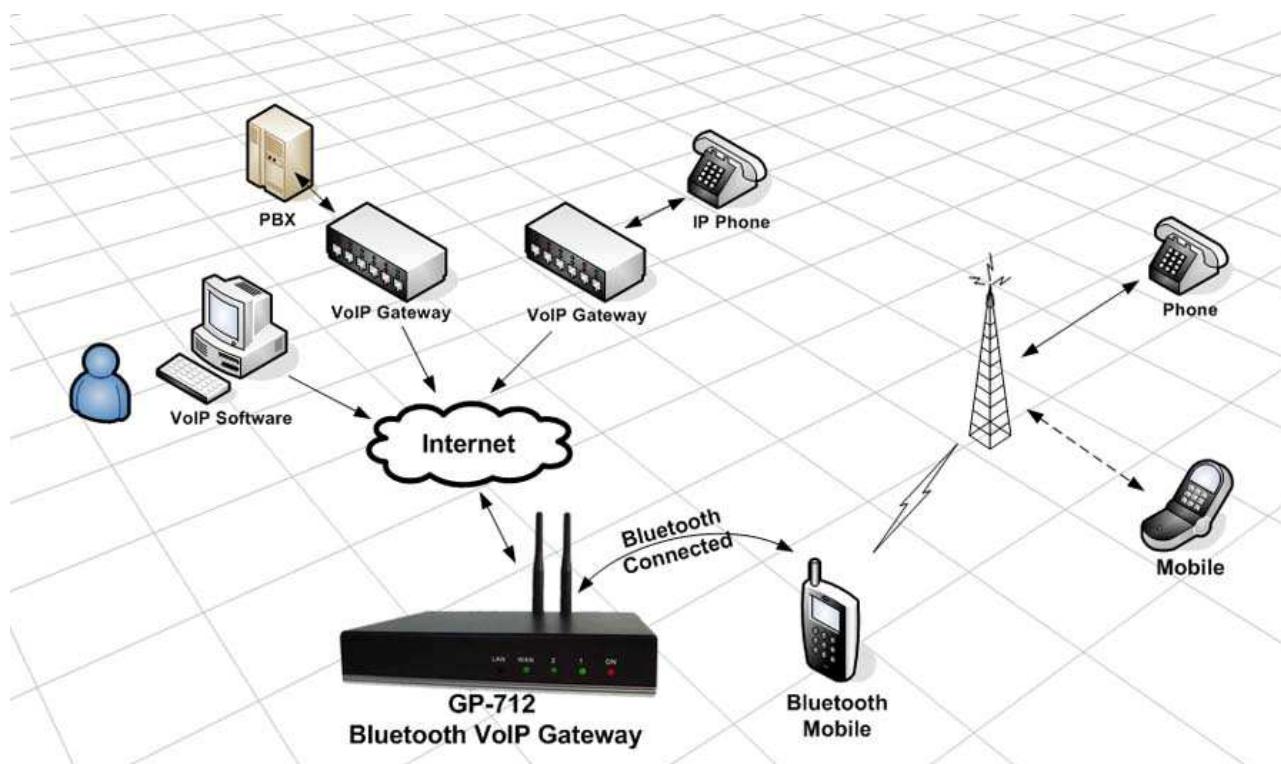
The GP-71X is a revolutionary and innovative product. It Integrates VoIP and 2.4G Bluetooth technically in a device, this not only offers high cost-effectiveness in mobile communication for mobile user but also offers very high flexibility in re-building systems.

### Feature

- 1 VoIP and Bluetooth Mobile full integration.
- 2 Compatible with SIP RFC543, RFC3261.
- 3 Support UPLINK, DOWNLINK Routing.
- 4 Support VOICE REPORT IP function.
- 5 Integrated web server for status and settings.
- 6 Support SIP Proxy, or point to point application.
- 7 Option for one stage or two stage free dialing and call transfer function.
- 8 Bluetooth with auto pairing and auto searching function.
- 9 QoS and Digital Transmit.
- 10 Could use with GSM/CDMA/3G/UMTS various Bluetooth mobile phones.
- 11 2 Bluetooth and 2 VoIP channels (GP-712 only)



### Application Diagram:



## Specification

### VoIP

Web Browser  
IVR Interface  
Uplink Route Setting  
Downlink Route Setting  
1 Stage, Dialout Called Number, Free Dial

### Network Protocol

SIP v1 (RFC2543), v2(RFC3261)  
IP/TCP/UDP/RTP/RTCP  
IP/ICMP/ARP/RARP/SNTP  
DHCP Client/ PPPoE Client  
DNS Client

### CODEC

GSM  
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

### NAT Traversal

STUN

### Voice Quality

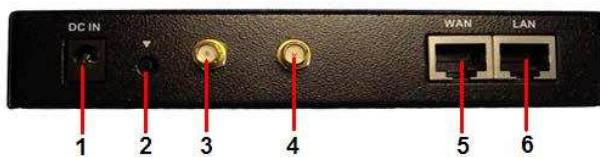
VAD: Voice activity detection  
CNG: Comfort noise generator  
LEC: Line echo canceller  
Packet Loss Compensation  
Adaptive Jitter Buffer

### Bluetooth

Bluetooth Specification V2.  
Carrier Frequency 2400MHz to 2483.5MHz  
Modulation Method GFSK,1Mbps,0.5BT Gaussian  
Output level, class 2  
10 meters working range

### Package

Bluetooth VoIP Gateway : 147mm X 108mm X 27mm  
GP-710: 2.4GHz Antenna \* 1  
GP-712: 2.4GHz Antenna \* 2  
Power Supply : Input100-240VAC 50-60Hz  
Output12VDC 1000mA  
1.8m Network Cable



1.Power socket 2.setting mode button 3.Antenna1  
4.Antenna2 5.WAN Port 6.LAN Port

## Model Difference

Model Difference		
Model	GP-710	GP-712
Bluetooth	1	2
Channels	1	2
Antenna	1	2

## 2 Instruction

### 2.1.Defalut Factory:

Bluetooth Audio Device Name: GP-71X

Bluetooth Pairing key: 0000

Webs IP Address: <http://192.168.0.249>

Webs Gateway IP: <http://192.168.0.1>

Webs Login Name: admin

Webs Login Password: voip

### 2.2.Prepare Bluetooth mobile and GP-71X to pair

### 2.3.Use Web Browser to set appropriate IP Address.

### 2.4.Set SIP Account or not(If you need, you can set SIP Account)

### 2.5.Set Downlink Route, (From VoIP to Bluetooth Mobile) or

Set FIX Dial, Free Dial or Called Number Dial

### 2.6.Set Uplink Route (From Bluetooth Mobile to VoIP) or

Set FIX Dial or Free Dial

## 3 Setup Your Bluetooth Mobile

Users have to prepare common Bluetooth mobile and GP-71X to pair.

Bluetooth mobile pairs successfully that users turn on GP-71X, Bluetooth on your mobile phone and search Audio Device, it will find "GP-710(GP-712-1 and GP-712-2)" on your searching list then enter the password "0000" to connect with. It finishes pairing that BT/1 LED on GP-71X is on for 0.1 seconds and off for 0.9 seconds.

After that users can use VoIP to dial out or switch the call to VoIP by this Mobile. Except that you remove the paired or Out of Range.

## 4 Status of LED

GP-710 status of LED:

ON LED :

When power on, ON LED will light.

BT LED :

Bluetooth start : it is off for 0.1 seconds and on for 0.9 seconds.

Wait for pairing : it is on for 0.5 seconds and off for 0.5 seconds.

Paired : it is on for 0.1 seconds and off for 0.9 seconds.

On the phone or Bluetooth Device is Error : it is on.

RUN LED :

Ready : it is on for 0.1 seconds and off for 0.9 seconds.

Set Mode: it is on for 0.9 seconds and off for 0.1 seconds.

Alert/Ringing : it is on for 0.9 seconds and off for 0.1 seconds.

Talking : it is on.

GP-712 status of LED :

ON LED :

When power on, ON LED will light.

'1' LED :

First Channel

Ready : it is on for 0.1 seconds and off for 0.9 seconds.

Set Mode: it is on for 0.9 seconds and off for 0.1 seconds.

Ringing : it is on for 0.1 seconds and off for 0.1 seconds.

Wait for pairing : it is on for 0.5 seconds and off for 0.5 seconds.

Dialing : it is on for 0.5 seconds and off for 0.5 seconds.

Talking : it is on.

'2' LED :

Second Channel

Ready : it is on for 0.1 seconds and off for 0.9 seconds.

Set Mode: it is on for 0.9 seconds and off for 0.1 seconds.

Ringing : it is on for 0.1 seconds and off for 0.1 seconds.

Wait for pairing : it is on for 0.5 seconds and off for 0.5 seconds.

Dialing : it is on for 0.5 seconds and off for 0.5 seconds.

Talking : it is on.

## 5 IVR Interface

It is setting mode (Run/2 LED is on for 0.9 seconds and off for 0.1 seconds), press the button behind GP-71X for 3 seconds. The next step dial to GP-71X, GP-71X will reply IP Address. At last, if you want to reset factory default, press #199# button and then the box will automatically reboot.

## 6 Setup the GP-71X by Web Browser

The GP-71X provides a built-in web server. You can use Web browser to configure the GP-71X. First please input the IP address in the Web page. In the end of IP address. Default setting is: **192.168.0.249**. Ex:<http://192.168.0.249>

### 6.1 Login.

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

1. For normal user, the username is : **admin** ; and the password is : **voip**. If you use the account login.

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

If you change the setting in the Web Management interface, please do remember to click the “Submit” button in that page. After you finish the change of the setting, click the “Save” function in the left side, and click the Save Button. It will automatically reboot.



The image shows a login interface with a purple header bar containing the word 'Login'. Below the header, a message says 'Enter your username and password to login'. There are two text input fields: 'Username' and 'Password'. At the bottom of the interface are two buttons: 'Login' and 'Clear'.

### 6.2 System Information.

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

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



The image shows a system information interface for a GEMPRO Bluetooth VoIP Gateway. The top bar displays the model name: 'Bluetooth VoIP Gateway (GSM/CDMA/WCDMA/3G/... Bluetooth Mobile)'. The main title is 'Information'. On the left, there is a sidebar with a list of functions: Route, System, Network, SIP, NAT, Authority, Save, Update, and Reboot. The 'Information' section contains a table with the following data:

Company:	GEMPRO Technology Inc.
Model Name:	Bluetooth VoIP Gateway
Firmware Version:	Mon Jan 14 17:14:24 2008.
Codec Version:	Wed Dec 05 10:36:06 2007.
Contact Address:	6F., No.314, Sec. 3, FuSing Rd., Taichung, Taiwan, R.O.C.
Tel:	886-4-22292128
Fax:	886-4-22290413
E-Mail:	service@gempro.com.tw
Web Site:	<a href="http://www.gempro.com.tw">www.gempro.com.tw</a>

## 6.3 Route

### 6.3.1.1 Uplink Route

Fix Number : After dialing to BT(Bluetooth Mobile) successfully,it will dial appointed sip account or IP. You can add number in front of or behind the number you will dial.

Free Dialout : two-staged dialing.After dialing to BT successfully,you hear a tone then dial sip account or IP. You can add number in front of or behind the number you will dial.

We suggest you don't use this function in bad quality communication area , it will make wrong dialing.

Phone No : You can choose Phone1 or Phone2 to set up

#### Uplink Route

You could configure the Uplink Route ( BT to LAN ).

Phone No.:

Uplink Setting	
<input type="radio"/> Fix Number:	Fix No.: <input type="text"/>
<input checked="" type="radio"/> Free Dialout	front +: <input type="text"/> + rear : <input type="text"/>

### 6.3.1.2 Downlink Route

1 Stage : EX:[123@192.168.0.1](tel:123@192.168.0.1) ->123456@192.168.0.2 ,you just dial is 123456.You can add number in front of the number you will dial,for example:09,then it will be 09123456. Or add number behind the number you will dial.

Fix Number : After dialing to BT successfully,it will dial appointed phone number. You can add number in front of the number you will dial.

Free Dialout : two-staged dialing.After dialing to BT successfully,it will send an intimation to wait users to dial the number. You can add number in front of or behind the number you will dial.

Phone No : You can choose Phone1 or Phone2 to set up

#### Downlink Route

You could configure the Downlink Route ( LAN to BT ).

Phone No.:

Downlink Setting	
<input type="radio"/> 1 Stage ( Called Num.)	front +: <input type="text"/> + rear : <input type="text"/>
<input checked="" type="radio"/> Fix Number	Fix No.: <input type="text"/> + rear : <input type="text"/>
<input type="radio"/> Free Dialout	front +: <input type="text"/> + rear : <input type="text"/>

If you use NOKIA Mobile,you don't add ';' in the column of 'rear No.' add ';' in others.

## 6.4 System

### Status

It can display the Bluetooth, the status of GP-71X and the last 10 records of communicating  
Phone No : You can choose Phone1 or Phone2 to set up

### Status

Phone No.:	Phone 1
System:	Standby
BT Status:	00:00:03 Connected
Last Uplink:	>
Last Downlink:	>
Record 1:	>
Record 2:	>
Record 3:	>
Record 4:	>
Record 5:	>
Record 6:	>
Record 7:	>
Record 8:	>
Record 9:	>
Record 10:	>

### Setting

Volume : Adjust the volume of VoIP

Gain : Adjust to gain the volume of input

Uplink : (BT to VoIP)

Caller ID : (Clid) Caller ID is the number dial to BT Mobile.

Caller ID : (Input) Caller ID can be assigned appionted number.

Downlink : (VoIP to BT)

LAN Answer : When lan turn to BT, LAN reply the time of signal starting

BT Answered : It starts when the called replies.

BT Alerted : It starts when dialing to BT, replying invite 183 and waiting the called for replying.

BT Dialouted : It starts when dialing to BT. It is used for some system providers don't provide return signal, ex : cdma.

Free Dial Hit Sound: 0:OFF, 45:DialTone, 44:Do-Re-Mi-Fa., 1-43:Others

Phone No : You can choose Phone1 or Phone2 to set up

### Setting

Phone No.:	Phone 1		
Volume:	9 (0~12)	Mic Gain:	11 (0~15)
<b>Uplink</b>			
Caller ID:	<input checked="" type="radio"/> Clid	<input type="radio"/>	
<b>Downlink</b>			
LAN Answer	<input checked="" type="radio"/> BT Answered	<input type="radio"/> BT Alerted (183)	<input type="radio"/> BT Dialouted
Free Dial Hit Sound:	45		
<input type="button" value="Submit"/>		<input type="button" value="Reset"/>	

## 6.5 Network

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

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

### Network Status

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

System Up Time:	0 day(s) 0 hour(s) 49 minute(s)
Network Link Up Time:	0 day(s) 0 hour(s) 49 minute(s)
NAT Type:	Port restricted cone
<b>Interface 0</b>	
Type:	Fixed IP Client
IP:	192.168.2.249
Mask:	255.255.255.0
Gateway:	192.168.2.1
DNS Server 1:	168.95.192.1
DNS Server 2:	168.95.1.1
<b>Interface 1</b>	
Type:	Fixed IP Client
IP:	192.168.1.248
Mask:	255.255.255.0
Gateway:	192.168.1.248
DNS Server 1:	168.95.192.1
DNS Server 2:	168.95.1.1

WAN Settings : You can configure the WAN setting in this page.

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

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.

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

When you finish the setting, please click the Submit button.

### WAN Settings

You could configure the WAN settings in this page.

LAN Mode:	<input type="radio"/> Bridge <input checked="" type="radio"/> NAT
<b>WAN Setting</b>	
IP Type:	<input checked="" type="radio"/> Fixed IP <input type="radio"/> DHCP Client <input type="radio"/> PPPoE
IP:	192.168.2.249
Mask:	255.255.255.0
Gateway:	192.168.2.1
DNS Server1:	168.95.192.1
DNS Server2:	168.95.1.1
MAC:	001122334455
Host Name:	VOIP_TA1S
<b>PPPoE Setting</b>	
User Name:	<input type="text"/>
Password:	<input type="text"/>
Service Name:	<input type="text"/>

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 finish the setting, please click the Submit button.

## DDNS Settings

You could set the configuration of DDNS in this page.

DDNS:  On  Off

Host Name:	<input type="text"/>
User Name:	<input type="text"/>
Password:	<input type="text"/>
E-mail Address:	<input type="text"/>
DDNS Server:	<input type="text"/>
DDNS Server List:	<input type="text" value="User Input"/>
Type:	<input type="text" value="dyndns"/>
Wild Card:	<input type="text" value="on"/>
BACKMX:	<input type="radio"/> On <input checked="" type="radio"/> Off
Off Line:	<input type="radio"/> On <input checked="" type="radio"/> Off

## 6.6 LAN 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.

## LAN Settings

You could configure the LAN settings in this page.

LAN Setting	
IP:	<input type="text" value="192.168.1.248"/>
Mask:	<input type="text" value="255.255.255.0"/>
MAC:	<input type="text" value="001122334466"/>
DHCP Server	
DHCP Server:	<input type="radio"/> On <input checked="" type="radio"/> Off
Start IP:	<input type="text" value="150"/>
End IP:	<input type="text" value="200"/>
Lease Time:	<input (dd:hh)"="" :00="" type="text" value="1"/>

## 6.7 SIP Settings

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

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. You can dial the VoIP phone to your friends via first enable SIP account and receive the phone from these three SIP accounts. For the second phone you can use the same way to register.

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

- 6.7.1.1.1 Phone No : you can choose Phone1 or Phone2 to set up.
- 6.7.1.1.2 Display Name: you can input the name you want to display.
- 6.7.1.1.3 User Name: you need to input the User Name get from your ISP.
- 6.7.1.1.4 Register Name: you need to input the Register Name get from your ISP.
- 6.7.1.1.5 Register Password: you need to input the Register Password get from your ISP.
- 6.7.1.1.6 Domain Server: you need to input the Domain Server get from your ISP.
- 6.7.1.1.7 Proxy Server: you need to input the Proxy Server get from your ISP.
- 6.7.1.1.8 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.
- 6.7.1.1.9 You can see the Register Status in the Status item. If the item shows “Registered”, then your registered to the ISP, you can make a phone call directly.
- 6.7.1.1.10 If you have more than one SIP account, you can choose Realm No. to set up.

6.7.1.1.11 When you finish the setting, please click the Submit button.

### Service Domain Settings

You could set information of service domains in this page.

Phone No.:

Realm No.:

Realm	
Active:	<input type="radio"/> On <input checked="" type="radio"/> Off
Display Name:	<input type="text"/>
User Name:	<input type="text"/>
Register Name:	<input type="text"/>
Register Password:	<input type="text"/>
Domain Server:	<input type="text"/>
Proxy Server:	<input type="text"/>
Outbound Proxy:	<input type="text"/>
Subscribe for MWI:	<input type="radio"/> On <input checked="" type="radio"/> Off
Status:	Not Registered

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

## Port Settings

You could set the port number in this page.

SIP Port of Phone1:  (0~65533) Set 0 will assigned by system

RTP Port of Phone1:  (0~65533) Set 0 will assigned by system

SIP Port of Phone2:  (0~65533) Set 0 will assigned by system

RTP Port of Phone2:  (0~65533) Set 0 will assigned by system

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 finish the setting, please click the Submit button.

## Codec Settings

You could set the codec settings in this page.

### Codec Priority

Codec Priority 1:

Codec Priority 2:

Codec Priority 3:

Codec Priority 4:

Codec Priority 5:

Codec Priority 6:

Codec Priority 7:

Codec Priority 8:

Codec Priority 9:

### RTP Packet Length

G.711 & G.729:

G.723:

### G.723 5.3K

G.723 5.3K:  On  Off

### Voice VAD

Voice VAD:  On  Off

DTMF Setting : you can setup DTMF mode for this 3 kinds:RFC 2833 , Inband DTMF and Send DTMF SIP Info in this page. To change this setting, please following your ISP information. When you finish the setting, please click the Submit button.

## DTMF Setting

You could set the DTMF setting in this page.

RFC 2833

Inband DTMF

Send DTMF SIP Info

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

## RPort Setting

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

RPort of Phone1:  On  Off  
RPort of Phone2:  On  Off

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 checked="" type="radio"/> On <input type="radio"/> Off
Voice QoS (Diff-Serv):	40 (0~63)
SIP QoS (Diff-Serv):	40 (0~63)
SIP Expire Time:	60 (15~86400 sec)
Use DNS SRV:	<input type="radio"/> On <input checked="" type="radio"/> Off
Send Keep Alives Packet:	<input checked="" type="radio"/> On <input type="radio"/> Off
Keep Alives Period:	60 (15~250 sec)
Jitter Buffer:	1 (0~250 packets)

## 6.8 NAT Trans.

In NAT Trans. you can setup STUN function.

STUN Setting : you can setup the STUN Enable/Disable and STUN Server IP address in this page. This function can help your working properly behind NAT. To change these settings please following your ISP information. When you finish 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:   
STUN Port:  (80~65535)

## 6.9 Authority.

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

### System Authority

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

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

## 6.10 Save

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

### Save Changes

You have to save changes to effect them.

Save Changes:

## 6.11 Update

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

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

Select the firmware code type, CPU or DSP code.

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.

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

### Update Firmware

You could update the newest firmware.

**Method:**  Local PC  TFTP

**Local PC**

Code Type:	<input type="text" value="CPU xxxx.gz"/>
File Location:	<input type="text"/> <input type="button" value="瀏覽..."/>

**TFTP**

TFTP Server:	<input type="text" value="192.168.1.250"/>
--------------	--

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

### Restore Default Settings

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

---

Restore default settings:

## 6.12 Reboot

Reboot function you can restart.

### Reboot System

You could press the reboot button to restart the system.

---

Reboot system:

## Q&A

Q.1 Why does NOKIA mobile just dial in not dial out after pairing?

Because dial out command in NOKIA can not add ';' behind dial code. You just write on the option of Downlink.

Q.2 Why does it just have the function of Last number?

Few of Bluetooth mobiles have this function, please change your mobile

Q.3 Why doesn't one of you hear the sounds from another one?

Maybe it is baffled by firewall, please open STUN and refer to the website of STUN :

stun.voipbuster.com, stun.softjoys.com, 66.7.238.210,  
stun.fwd.org, stun.sipgate.net

Why don't both of you hear the sounds from another one?

Maybe it is baffled by firewall or the option of CODEC is wrong.

Q.4 How to reset default ?

1. Dial #199# to the paired mobile to reset default.
2. Press the back button of GP71X to continue for 10 seconds. (the 'ON' LED will be off for 1 second)

**Appendix:  
Federal Communications Commission (FCC) Statement**

**RADIO FREQUENCY INTERFERENCE STATEMENT**

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions: 1) this device may not cause harmful interference, and 2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try correct the interference by one or more of the following measures:

- Reorient the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Any special accessories needed for compliance must be specified in the instruction manual.

You are cautioned that changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

## Gempro Technology Inc.

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webs: <http://www.gempro.com.tw>

**FCC ID:XTA0800V2B27012**

## **FCC Compliance and Advisory Statement**

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions:(1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, according to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try correct the interference by one or more of the following measures:

1. Reorient the receiving antenna.
2. Increase the separation between the equipment and receiver.
3. Connect the equipment into and outlet on a circuit different from that to which the receiver is connected.
4. Consult the dealer or an experienced radio/TV technician for help.

Any special accessories needed for compliance must be specified in the instruction manual.

**Warning:** A shielded-type power cord is required in order to meet FCC emission limits and also to prevent interference to the nearby radio and television reception. It is essential that only the supplied power cord be used. Use only shielded cables to connect I/O devices to this equipment.

**CAUTION:** Any changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

## **CE Statement**

Hereby, Gempro Technology Inc. declares that this GP-712 is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.