

Grandstream HT704 Configuration Guide for FreePhoneLine

Software Version: 1.0.6.1

Official FPL guidelines you can find at: <http://support.freephoneline.ca/entries/23120323-VoIP-Unlock-Key-Credentials>

All the settings were default on the device before configuration.

Step 1.

Plug all the appropriate wires to your Grandstream HT704 device.

- Internet cable (Internet connection)
- Phone line (attached to the phone) *[Note: Use 'Port 1']*
- Power

Step 2.

From the phone attached to your Grandstream HT704 device:

- Dial '***'
- Then dial '02'

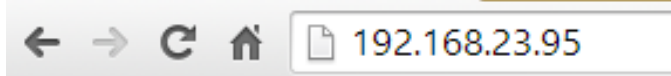
Write down your IP address.

Step 3.

On the PC/Mac connected to the same network as your Grandstream HT704 device, go to your browser (Internet Explorer; Chrome; Firefox; Opera; Safari, etc.).

In the URL bar put your IP address from Step 2.

[Note: I am using 192.168.23.95 for my IP, your IP address might be different!]



Web-based utility will appear.

Now you have to login.

Default **Password: admin**

A screenshot of the 'Grandstream Device Configuration' login page. The page has a yellow header with the title 'Grandstream Device Configuration'. Below the header is a yellow section containing a 'Password' label, a text input field with four dots, and a 'Login' button. A red oval highlights the 'Password' label and the input field. A red arrow points from the word 'admin' to the input field. Another red oval highlights the 'Login' button. At the bottom of the page is a blue footer with the text 'All Rights Reserved Grandstream Networks, Inc. 2006-2014'.

Step 4.

Go to 'BASIC SETTINGS' tab and fill in the following settings:

Time Zone: [Choose appropriate time zone, depending where you are located]

Then click 'Apply' button at the bottom

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Grandstream Device Configuration

STATUS
BASIC SETTINGS
ADVANCED SETTINGS
PROFILE 1
PROFILE 2
FXS PORTS

End User Password: (purposely not displayed for security protection)

Web Port: (default for HTTP is 80)

Telnet Server: ☐ No ☒ Yes

IP Address: ☒ dynamically assigned via DHCP

DHCP hostname: (optional)

DHCP vendor class ID: (optional)

☐ use PPPoE

PPPoE account ID:

PPPoE password:

PPPoE Service Name:

GMT-10:00 (US Hawaiian Time)

GMT-09:00 (US Alaska Time)

GMT-08:00 (US Pacific Time, Los Angeles)

GMT-08:00 (Baja California)

GMT-07:00 (US Mountain Time, Denver)

GMT-07:00 (Mountain Time (Arizona, no DST))

GMT-07:00 (Chihuahua, La Paz, Mazatlan)

GMT-06:00 (Central Time)

GMT-06:00 (Central America)

GMT-06:00 (Guadalajara, Mexico City, Monterrey)

GMT-05:00 (Eastern Time)

GMT-05:00 (Eastern Time without daylight saving)

GMT-04:30 (Caracas)

GMT-04:00 (Atlantic Time)

GMT-04:00 (Atlantic Time (New Brunswick))

GMT-03:30 (Newfoundland Time)

GMT-03:00 (Greenland)

GMT-03:00 (Brazil, Sao Paulo)

GMT-02:00 (Argentina)

GMT-02:00 (Mid Atlantic)

1st Preferred DNS server:

2nd Preferred DNS server:

3rd Preferred DNS server:

4th Preferred DNS server:

☐ statically configured as:

IP Address:

Subnet Mask:

Default Router:

DNS Server 1:

DNS Server 2:

Time Zone: **2**

Self-Defined Time Zone: (For example: MTZ+6MDT+5,M4.1.0,M11.1.0)

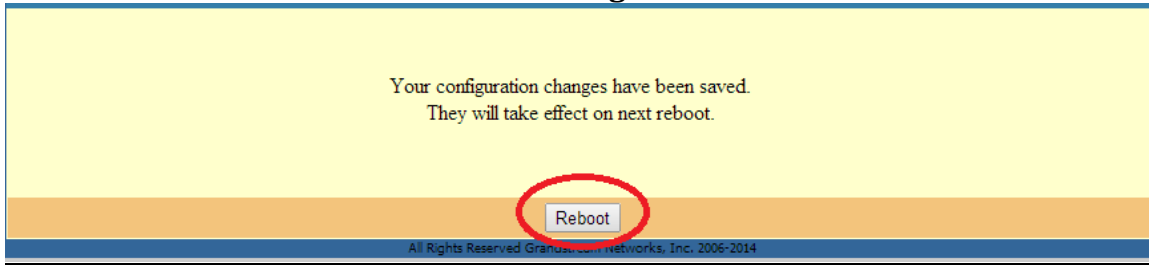
Allow DHCP server to set Time Zone: ☒ No ☐ Yes

Language:

Reset Type:

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After you click 'Apply' button, device should ask you to reboot. If so – click on 'Reboot' button to apply the changes you have made. If it doesn't – go back to 'BASIC SETTINGS' tab and click 'Reboot' button at the bottom. Wait while device is rebooting.



Step 5.

Go to 'PROFILE 1' tab and change the following settings:

Primary SIP Server: *voip.freephoneline.ca* **OR** *voip2.freephoneline.ca* **[Note: For ROGERS Internet provider customers use *voip4.freephoneline.ca:6060*]**

NAT Traversal: *Keep-Alive*

Outgoing Call without Registration: *No*

Use Random SIP Port: *Yes*

Use Random RTP Port: *Yes*

Transfer on Conference Hangup: *Yes*

Grandstream Device Configuration

Step 5

STATUS
BASIC SETTINGS
ADVANCED SETTINGS
PROFILE 1
PROFILE 2
FXS PORTS

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Profile Active: ☐ No ☒ Yes

Primary SIP Server: voip.freephoneline.ca (e.g., sip.mycompany.com, or IP address)

Failover SIP Server: (Optional, used when primary server no response)

Prefer Primary SIP Server: ☒ No ☐ Yes (yes - will register to Primary Server if Failover registration expires)

Outbound Proxy: (e.g., proxy.myprovider.com, or IP address, if any)

Allow DHCP Option 120(override SIP server): ☒ No ☐ Yes

SIP Transport: ☒ UDP ☐ TCP ☐ TLS (default is UDP)

NAT Traversal: ☐ No ☒ Keep-Alive ☐ STUN ☐ UPnP

DNS Mode: ☒ A Record ☐ SRV ☐ NAPTR/SRV

Tel URI: Disabled

SIP Registration: ☐ No ☒ Yes

Unregister On Reboot: ☒ No ☐ Yes

Outgoing Call without Registration: ☒ No ☐ Yes

Register Expiration: (in minutes. default 1 hour, max 45 days)

Reregister before Expiration: (in seconds. Default 0 second)

SIP Registration Failure Retry Wait Time: (in seconds. Between 1-3600, default is 20)

Layer 3 QoS: SIP DSCP (Diff-Serv value in decimal, default 24)

RTP DSCP (Diff-Serv value in decimal, default 46)

Local SIP Port: (default is 5060 for UDP and TCP; 5061 for TLS)

Local RTP Port: (even number between 1024-65535, default 5004)

Use Random SIP Port: ☐ No ☒ Yes

Use Random RTP Port: ☐ No ☒ Yes

Refer-To Use Target Contact: ☒ No ☐ Yes

Transfer on Conference Hangup: ☐ No ☒ Yes

Disable Bellcore Style 3-Way Conference: ☒ No ☐ Yes (Using star code *23 for 3-way conference)

Remove OBP from Route Header: ☒ No ☐ Yes

Support SIP Instance ID: ☐ No ☒ Yes

Validate Incoming SIP Message: ☒ No ☐ Yes

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Allow Incoming SIP Messages from SIP Proxy Only: Yes

Preferred DTMF method: (in listing order)

Priority 1:	RFC2833
Priority 2:	In-audio
Priority 3:	SIP INFO

Enable Call Features: No

Step 5

Allow Incoming SIP Messages from SIP Proxy Only: ☐ No ☒ Yes (no direct IP calling if Yes)

Use Privacy Header: ☒ Default ☐ No ☐ Yes

Use P-Preferred-Identity Header: ☒ Default ☐ No ☐ Yes

SIP T1 Timeout: 0.5 sec ▼

SIP T2 Interval: 4 sec ▼

DTMF Payload Type: 101

Preferred DTMF method: (in listed order)

Priority 1: RFC2833 ▼

Priority 2: In-audio ▼

Priority 3: SIP INFO ▼

Disable DTMF Negotiation: ☒ No (negotiate with peer) ☐ Yes (use above DTMF order without negotiation)

Send Hook Flash Event: ☒ No ☐ Yes (Hook Flash will be sent as a DTMF event if set to Yes)

Enable Call Features: ☒ No ☐ Yes (if Yes, call features using star codes will be supported locally)

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Preferred Vocoder: (in listed order):

Choice 1:	PCMU
Choice 2:	G729
Choice 3:	PCMU
Choice 4:	PCMU
Choice 5:	PCMU
Choice 6:	PCMU

Step 5

Preferred Vocoder: (in listed order)

choice 1: PCMU ▼

choice 2: G729 ▼

choice 3: PCMU ▼

choice 4: PCMU ▼

choice 5: PCMU ▼

choice 6: PCMU ▼

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Then click 'Apply' button at the bottom

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Update Apply Cancel Reboot

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The device might not ask you for reboot. In this case – after you applied changes, go back to 'PROFILE 1' tab and click 'Reboot' at the bottom. Wait while device is rebooting.

Step 6.

Go to '**FXS PORTS**' tab and change the following settings:

Under User Settings for Port 1:

SIP User ID: [Your FPL number 1xxxxxxxxx]

Password: [Your SIP password]

Name: [Your first and last name]

Profile ID: Profile 1

Hunting Group: Active

Under User Settings for Port 2, 3, 4:

Enable Port: No; No; No

Then click 'Apply' button at the bottom

Grandstream Device Configuration

STATUS BASIC SETTINGS ADVANCED SETTINGS PROFILE 1 PROFILE 2 FXS PORTS

User Settings

Port	SIP User ID	Authenticate ID	Password	Name	Profile ID	Hunting Group	Enable Port
1	1xxxxxxxxx		*****	FirstLastName	Profile 1	Active	<input type="radio"/> No <input checked="" type="radio"/> Yes
2					Profile 1	None	<input checked="" type="radio"/> No <input type="radio"/> Yes
3					Profile 1	None	<input checked="" type="radio"/> No <input type="radio"/> Yes
4					Profile 1	None	<input checked="" type="radio"/> No <input type="radio"/> Yes

Port Offhook Auto-dial Map to FXO Port# Map to FXO Gateway IP and Port

(e.g. 800123456) (e.g. valid line# 1-n) (e.g. 192.168.1.22) (e.g. 5060)

1		1		5060
2		1		5060
3		1		5060
4		1		5060

Update Apply Cancel Reboot

The device might not ask you for reboot. In this case – after you applied changes, go back to 'FXS PORTS' tab and click 'Reboot' at the bottom. Wait while device is rebooting.

Enjoy your free phone line! ☺