

Grandstream HT 286/287 Configuration Guide for FreePhoneLine **Software Version: 1.1.0.42/45**

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 HT286/287 device.

- Internet cable (Internet connection)
- Phone line (attached to the phone)
- Power

Step 2.

From the phone attached to your Grandstream HT286/287 device:

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

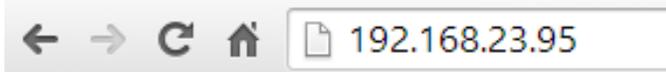
Write down your IP address.

Step 3.

On the PC/Mac connected to the same network as your Grandstream HT286/287 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 blue header with the text "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, with a red arrow pointing to the word "admin" written in red. 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 change the following settings:

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

Then click 'Update' button at the bottom

Grandstream Device Configuration

STATUS BASIC SETTINGS ADVANCED SETTINGS 1 ADVANCED SETTINGS 2

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

Web Port: (default for HTTP is 80)

IP Address: dynamically assigned via DHCP (default) or PPPoE:
(will attempt PPPoE if DHCP fails and following is non-blank)

DHCP hostname:

DHCP domain:

DHCP vendor class ID:

PPPoE account ID:

PPPoE password:

PPPoE Service Name:

Preferred DNS server:

statically configured as:

IP Address:

Subnet Mask:

Default Router:

DNS Server 1:

DNS Server 2:

Time Zone:

Daylight Savings Time: No Yes

Optional Rule:

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After you click 'Update' 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.

Your configuration changes have been saved.
They will take effect on next reboot.

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Step 5.

Go to 'ADVANCED SETTINGS 1' tab and change the following settings:

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

SIP User ID: *[Your FPL number 1xxxxxxxxx]*

Authenticate Password: *[Your SIP password]*

Name: *[Your first and last name]*

Under Advanced Options section:

Preferred Vocoder: (in listed order):

Choice 1:	<i>PCMU</i>
Choice 2:	<i>G.729A/B</i>
Choice 3:	<i>PCMU</i>
Choice 4:	<i>PCMU</i>
Choice 5:	<i>PCMU</i>
Choice 6:	<i>PCMU</i>
Choice 7:	<i>PCMU</i>

The screenshot shows the 'Grandstream Device Configuration' page with the 'ADVANCED SETTINGS 1' tab selected. The following fields are highlighted with red circles and labeled with '1':

- Admin Password: [] (purposely not displayed for security protection)
- SIP Server: *voip.freephoneline.ca* (e.g., sip.mycompany.com, or IP address)
- Outbound Proxy: [] (e.g., proxy.myprovider.com, or IP address, if any)
- SIP User ID: *1xxxxxxxxx* (the user part of an SIP address)
- Authenticate ID: [] (can be identical to or different from SIP User ID)
- Authenticate Password: [] (purposely not displayed for security protection)
- Name: *Firstname Lastname* (optional, e.g., John Doe)
- Home NPA: []

The 'Advanced Options' section is also visible, with the 'Preferred Vocoder' dropdown menu highlighted by a red box and labeled with '2':

Preferred Vocoder: (in listed order)

- choice 1: current setting is " PCMU" ▼
- choice 2: G.729A/B ▼
- choice 3: current setting is " PCMU" ▼
- choice 4: current setting is " PCMU" ▼
- choice 5: current setting is " PCMU" ▼
- choice 6: current setting is " PCMU" ▼
- choice 7: current setting is " PCMU" ▼

Additional options at the bottom:

- G723 rate: 6.3kbps encoding rate 5.3kbps encoding rate
- iLBC frame size: 20ms 30ms

Allow incoming SIP messages from SIP proxy only: *Yes*

Register Expiration: *3600*

No Key Entry Timeout: *4*

Use random port: *Yes*

iLBC payload type: (between 96 and 127, default is 97)
Silence Suppression: No Yes
Voice Frames per TX: (up to 10/20/32/64 for G711/G726/G723/other codecs respectively)
Fax Mode: T.38 (Auto Detect) Pass-Through
Layer 3 QoS: (Diff-Serv or Precedence value)
Layer 2 QoS: 802.1Q/VLAN Tag 802.1p priority value (0-7)
Allow incoming SIP messages from SIP proxy only: No Yes
Use DNS SRV: No Yes
User ID is phone number: No Yes
SIP Registration: Yes No
Unregister On Reboot: Yes No
Register Expiration: (in seconds, default 1 hour, max 45 days)
Early Dial: No Yes (use "Yes" only if proxy supports 484 response)
Allow outgoing call without Registration: No Yes
Dial Plan Prefix: (this prefix string is added to each dialed number)
No Key Entry Timeout: (in seconds, default is 4 seconds)
Use # as Dial Key: No Yes (if set to Yes, "#" will function as the Dial key)
local SIP port: (default 5060)
local RTP port: (1024-65535, default 5004)
Use random port: No Yes

Disable Call-Waiting Caller-ID: No
Send DTMF: [Checkmarks]: in-audio; via RTP (RFC2833)
Then click 'Update' button at the bottom

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

NAT Traversal: No
 Yes, STUN server is: (URI or IP:port)

keep-alive interval: (in seconds, default 20 seconds)

Use NAT IP (used in SIP/SDP message if specified)

Use STUN keep-alive to detect networks connectivity: No
 Yes, total STUN response misses (minimum=3) before restart

Proxy-Require:

SUBSCRIBE for MWI: No, do not send SUBSCRIBE for Message Waiting Indication
 Yes, send periodical SUBSCRIBE for Message Waiting Indication

Offhook Auto-Dial: (User ID/extension to dial automatically when offhook)

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

Use Bell-style 3-way Conference: No Yes (if Yes, *23 will be disabled)

Disable Call-Waiting: No Yes

Disable Call-Waiting Caller-ID: No Yes

Send DTMF: in-audio via RTP (RFC2833) via SIP INFO

DTMF Payload Type:

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

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After you click 'Update' 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 'ADVANCED SETTINGS 1' tab and click 'Reboot' button at the bottom. Wait while device is rebooting.

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Enjoy your free phone line! 😊