

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'

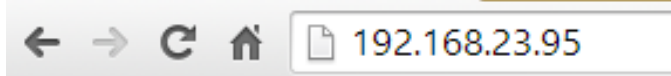
Write down your IP address.

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 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 field, and a red arrow points from the word 'admin' to it. Another red oval highlights the 'Login' button. The footer is a blue bar 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

1 BASIC SETTINGS ADVANCED SETTINGS 1 ADVANCED SETTINGS 2

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

Web Port: 80 (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: 0 .0 .0 .0

☐ statically configured as:

IP Address: 192 .168 .0 .160

Subnet Mask: 0 .0 .0 .0

Default Router: 0 .0 .0 .0

DNS Server 1: 0 .0 .0 .0

DNS Server 2: 0 .0 .0 .0

Time Zone: GMT-5:00 (US Eastern Time, New York)

Daylight Savings Time: ☐ No ☒ Yes

Optional Rule: 4,1,7,2,0;10,-1,7,2,0;60

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GMT-12:00 (International Date Line West)
GMT-11:00 (Midway Island, Samoa)
GMT-10:00 (US Hawaiian Time)
GMT-9:00 (US Alaska Time)
GMT-8:00 (US Pacific Time, Los Angeles)
GMT-7:00 (US Mountain Time, Denver)
GMT-6:00 (US Central Time, Chicago)
GMT-5:00 (US Eastern Time, New York)
GMT-4:30 (Venezuela)
GMT-4:00 (Atlantic Time, Quebec)
GMT-3:30 (Newfoundland)
GMT-3:00 (Greenland)
GMT-2:00 (Mid-Atlantic)
GMT-1:00 (Azores, Cape Verde Is.)
GMT (London, Dublin, Edinburgh, Lisbon, Casablanca, Monrovia)
GMT+1:00 (Paris, Amsterdam, Berlin, Rome, Vienna, Madrid, Warsaw, Brussels)
GMT+2:00 (Israel, Cairo, Athens, Helsinki, Istanbul, Bucuresti)
GMT+3:00 (Moscow, Kuwait, Baghdad, Tehran, Nairobi)
GMT+3:30 (Tehran)
GMT+4:00 (Abu Dhabi, Baku)

3 Update Cancel Reboot

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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.

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>

Grandstream Device Configuration

STATUS BASIC SETTINGS ADVANCED SETTINGS 1 ADVANCED SETTINGS 2

Admin Password: (purposely not displayed for security protection)

SIP Server: (e.g., sip.mycompany.com, or IP address)

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

SIP User ID: (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: (optional, e.g., John Doe)

Home NPA:

Advanced Options:

Preferred Vocoder: (in listed order)

choice 1:

choice 2:

choice 3:

choice 4:

choice 5:

choice 6:

choice 7:

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

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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)

Update **Cancel** **Reboot**

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Reboot

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Enjoy your free phone line! ☺