

GrandStream HandyTone-286

Configuration Instructions



Step 1: Connect your HandyTone-286

1. Connect the ATA to your network as shown below. For more information on how to connect the HandyTone, please see your User Manual.





Step 2: Reset the HandyTone to Factory Defaults

Note that this will clear all custom settings from the phone; if you wish to retain these for later reference, please make a note of them (for example, by printing the configuration page, or saving a copy of it to disk). See sections 2 and 3 for instructions on logging in to the configuration page.

To reset the phone, you will need the phone's 12-digit hardware address, also known as a MAC address. This should be printed on a sticker on the bottom of the phone; alternatively, it may be retrieved from the phone's Web configuration page. Note down the MAC address, as it will need to be entered into the phone.

The MAC address may contain the letters A-F as well as digits 0-9. To enter these letters into the phone, a special encoding is used, as follows:

- 0 press the 0 button once
- 1 press the 1 button once
- 2 press the 2 button once
- 3 press the 3 button once
- 4 press the 4 button once
- 5 press the 5 button once
- 6 press the 6 button once
- 7 press the 7 button once 8 press the 8 button once
- 8 press the 8 button once 9 press the 9 button once
- A press the 2 button two times
- B press the 2 button three times
- C press the 2 button four times
- D press the 3 button two times
- E press the 3 button three times
- F press the 3 button four times

To actually perform the reset, connect a telephone handset to the ATA, dial "***" followed by "99" and the MAC address as described, then wait for 15 seconds and hang up. During this time, a short buzzing sound may be heard, indicating that settings are being reset. Once the phone is hung up, the ATA will restart with factory defaults.



Step 3: Confirm the ATA has been set to DHCP mode, or assign a Static IP Address to the HandyTone.

- 1. To set the ATA to DHCP mode, connect a telephone handset to the ATA, dial "***", then "01". The voice prompt will say either "Static IP Mode", or "Dynamic IP Mode" press "9" on the telephone keypad to toggle between these two options.
- If you select Static IP mode, you will also need to configure the Subnet, Gateway and DNS Server IP Addresses. These can be set through Options 02 (IP Address), 03 (Subnet IP Address), 04 (Gateway IP Address) and 05 (DNS Server IP Address). These are set as follows:
 - a. Dial "***" from the handset connected to the ATA
 - b. At the voice prompt, dial the Option number (for example, 02)
 - c. The current IP Address for this option will be read out.
 - d. To enter a new IP, dial the new 12-digit IP Address (example: to enter 192.168.10.10, dial "1 9 2 1 6 8 0 1 0 0 1 0"
 - e. Once all 12 digits have been entered, the ATA will save them automatically.

Step 4: Log into the HandyTone web interface

- 1. Enter the IP Address of the ATA into your web browser (Example: <u>http://192.168.10.10</u>)
 - a. If you do not know the IP Address of the ATA:
 - b. Connect a telephone handset to the ATA, dial "***", then "02". Note down the IP address spoken out and enter it into the address bar of a Web browser, disregarding leading zeroes. Eg, if the address displayed is "010.034.238.006", enter this as "http://10.24.238.6/".
 - c. If the IP Address is read out as "0.0.0.0", and the ATA is set to DHCP mode, then this means that the device was unable to acquire and IP Address via DHCP. Unplug the ATA and wait 2 minutes before trying again. If the IP Address is still not assigned, you may need to contact your network administrator before proceeding.
- 2. Log in to the "Welcome to Grandstream HandyTone 286" page. The default password is "admin".



Step 5: Configure the ATA

1. Change the following settings:

SIP Server:sip.freshtel.netSIP User ID:<your Firefly number>Authenticate ID:<your Firefly number>Authenticate Password:<your Firefly password>Name:<your name>

Admin Password:	*****	(Admin user password to configure this IP phone)		
End User Password:	feith ff	(end user password to configure this IP phone)		
IP Address:	e dynamically assigned via DHCP (default) or PPPoE			
	(will attempt PPPoE if DHCP fails and following is non-blank)			
	PPPoE account ID:			
PPPoE password:				
Use this DNS server (if specified): 0 . 0 . 0				
⊂ statically configured as:				
IP Address: 192 . 168 . 0 . 160				
Subnet Mask: 0 . 0 . 0				
Default Router: 0.0.0.0				
DNS Server 1: 0.0.0				
	DNS Serv	ver 2: 0.0.0.0		
SIP Server:	sip.freshtel.net	(e.g., sip.mycompany.com, or IP address)		
Outbound Proxy:		(e.g., proxy.myprovider.com, or IP address, if any		
SIP User ID:	80001234	(the user part of an SIP address)		
Authenticate ID:	80001234	(can be identical to or different from SIP User ID		
Authenticate Password:	*****			
Name:	John Smith	(optional, e.g., John Doe)		



2. Change the following settings:

Preferred Vocoder:	choice 1:	G.729A/B
	choice 2:	iLBC
	choice 3:	PCMU
	choice 4:	PCMA
	choice 5:	G.726-32
	choice 6:	G.728
	choice 7:	G.723.1
iLBC frame size:		30ms
User ID is phone nu	Yes	
Register Expiration:	3	
No Key Entry Timeo	4	





3. Change the following settings:

NAT Traversal:	Yes, STUN server is:	stun.freshtel.net	
Send DTMF.	00 Ohm	in North America	
FXS Impedance:	600 Onm	<in america="" north=""></in>	
	CTR21	<for europe="" most="" of=""></for>	
	New Zealand #2	<for the="" uk=""></for>	
	Australia/New Zealand	<for and="" au="" nz=""></for>	
	<or another="" as="" required="" setting,=""></or>		
NTP Server:	time.nist.gov		
Time Zone:	GMT+10 <or appropriate="" as=""></or>		
Daylight Savings Time:	<set appropriate="" as=""></set>		

local SIP port:	5060 (default 5060)		
local RTP port:	5004 (1024-65535, default 5004)		
Use random port:	© No CYes		
NAT Traversal:	C No		
	© Yes, STUN server is: stun.freshtel.net (URI or IP:port)		
keep-alive interval:	20 (in seconds, default 20 seconds)		
Use NAT IP	(if specified, this IP address is used in SIP/SDP message)		
Proxy-Require:	(if specified, the content will appear in Proxy-Require header)		
TFTP Upgrade Server:	168 . 75 . 215 . 188 (for remote software upgrade and configuration)		
HTTP Upgrade Server:	(IP address or URL)		
Auto Upgrade:			
SUBSCRIBE for MWI:	€ No, do not send SUBSCRIBE for Message Waiting Indication		
	CYes, send periodical SUBSCRIBE for Message Waiting Indication		
Offhook Auto-Dial:	(User ID/extension to dial automatically when offhook)		
Enable Call Features:			
Disable Call-Waiting:	© No CYes		
Send DTMF:	Cin-audio Cvia RTP (RFC2833) Cvia SIP INFO		
DTMF Payload Type:	101		
Send Flash Event:			
FXS Impedance:	Australia/New Zealand #1 (220 Ohm + 820 Ohm 120nF)		
NTP Server:	time.nist.gov (URI or IP address)		
Time Zone:	GMT+10:00 (Brisbane, Sydney, Melbourne, Canberra, Guam, Hobart)		
Daylight Savings Time:	© No CYes (if set to Yes, display time will be 1 hour ahead of normal time)		
Send Anonymous:			
Lock keypad update:			
	Update Cancel Reboot		

4. Click the Update button, then click on the "Click to view your changes" link, then click the Reboot button. Once your ATA reboots, you should be ready to place and receive calls with Freshtel.

Dialing:

To dial a PSTN number, dial like you would with a normal phone. Eg 61390000000 To dial a Firefly number or voicemail, prefix a star to the number. Eg *80001234, *123