



Getting Started Guide

Analog Telephone Adapter (ATA)



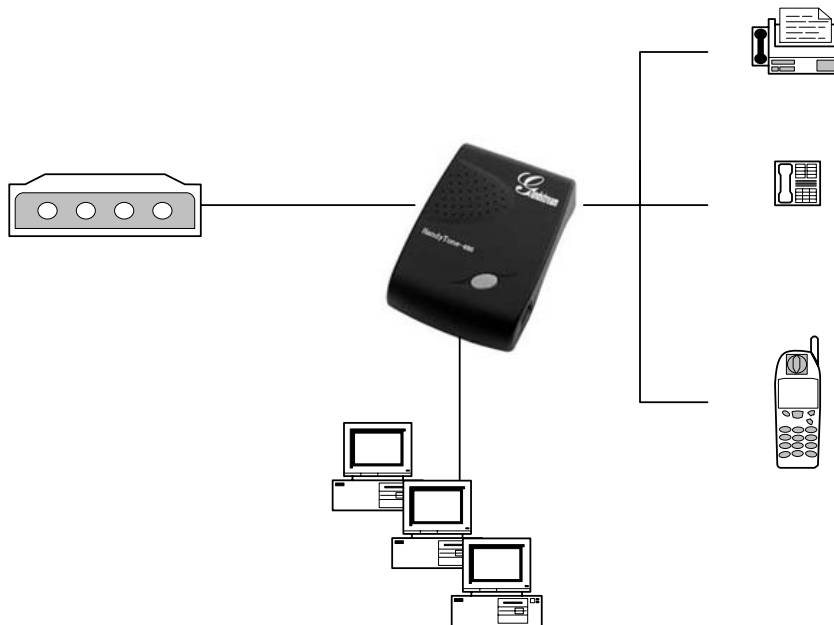
Table of Contents

Analog Telephone Adapter.....	3
What's included in the package.....	4
Safety compliances.....	4
Single PC	5
Multiple PCs and ATA connected to the LAN side of Router.....	6
PSTN Pass Through	7
LED Light Indicators.....	7
Calling features.....	8
VoiceMail	8
Hardware specifications.....	9

Analog Telephone Adapter

Top Views

Side Views



This ATA is a multipurpose device and is capable of supporting the following functions and features.

- Built-in Router, NAT and Gateway
- Telephone/PSTN/LAN/WAN Ports
- Compact and Lightweight



What's included in the package

The HandyTone-486 package contains:

1. One HandyTone -486
2. One universal power cord
3. One Ethernet cable
4. Welcome letter
5. Customer Support sticker

Safety compliances

The HandyTone-486 is compliant with various safety standards including FCC/CE and C-tick. Its power adaptor is compliant with UL standard. The HandyTone-486 should only operate with the universal power adaptor provided in the package.

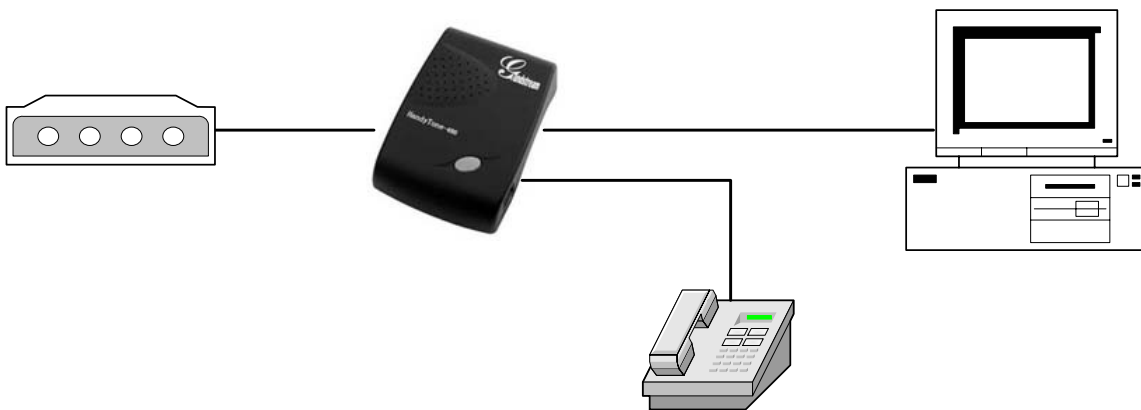
Warning: Please do not attempt to use a different power adaptor. Using other power adaptor may damage the HandyTone-486 and will void the manufacturer warranty.

Caution: Changes or modifications to this product not expressly approved by Grandstream, or operation of this product in any way other than as detailed by this User Manual, could void your manufacturer warranty.

Single PC

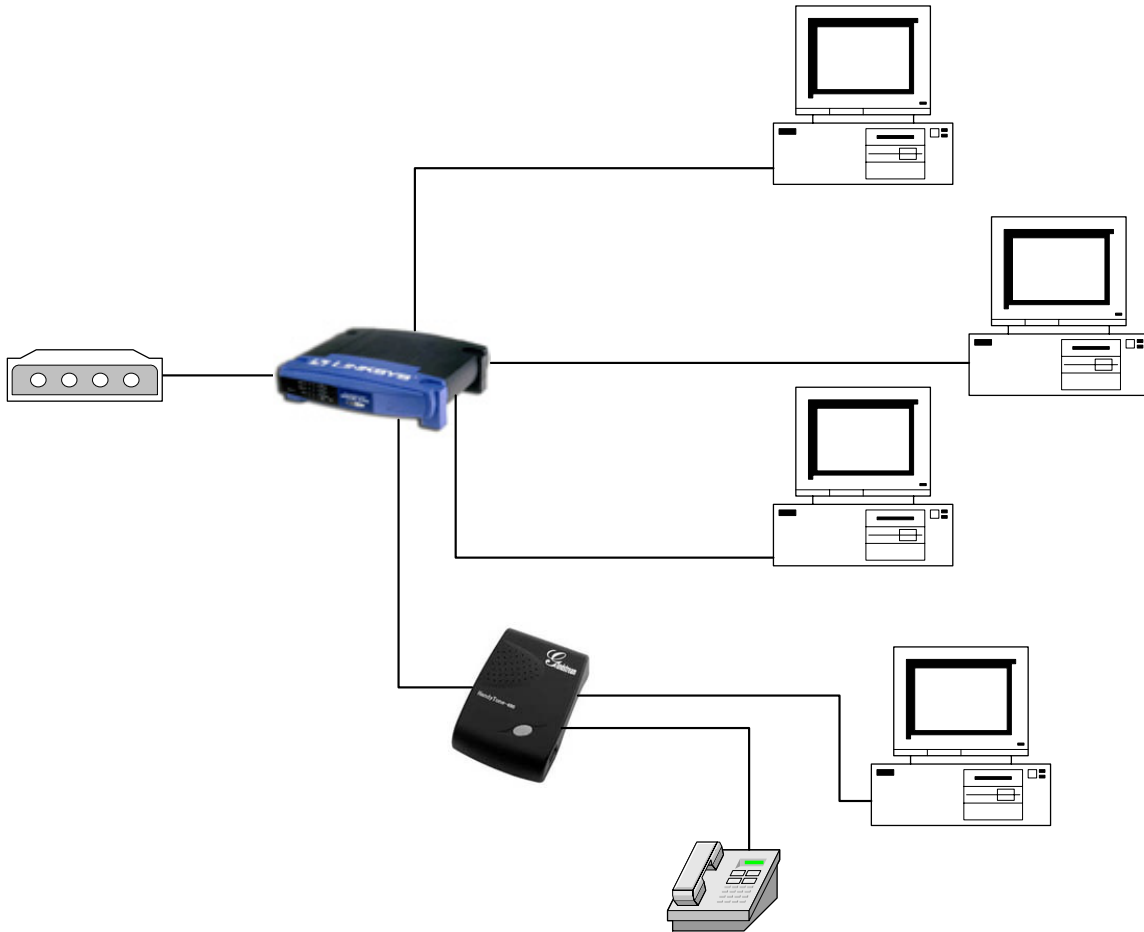
The ATA has the ability to aggregate upstream traffic by providing built-in router, NAT, Gateway and DMZ port forwarding.

The following figures will illustrate several configuration options.



In this configuration, the user has just one PC. The user is running the ATA in NAT/DHCP mode. NAT/DHCP mode requires just one public IP address on the WAN port, which in this diagram is provide by the Internet Service Provider. The computer will be provided with an IP addresses from the ATA.

Multiple PCs and ATA connected to the LAN side of Router



In this configuration, the ATA sits behind a router. This is the likely configuration for a consumer who has a home network prior to choosing the VOIP service. It is also the configuration recommended for users who desire advanced router capabilities.



PSTN Pass Through

When the HandyTone-486 is out of power, the RJ11 line jack on the HandTone-486 side will function as a pass through jack, user will be able to use the same analog phone for calls. Calls will flow through the HandyTone-486 to the PSTN jack.

LED Light Indicators

The following tables detail the LED light patterns

RED LED always indicates not normal status	
DHCP Failed or WAN No Cable	flash every 2 seconds (if DHCP is configured)
HandyTone-486 fails to register	flash every 2 seconds (if SIP server is configured)

GREEN LED always for normal working status	
RINGING	Button flashes at 1/10 second
RINGING INTERVAL	Button flashes every second



Calling features

Following table shows the call features of HandyTone-486 ATA.

Key	Call Features
*70	Do not disturb, it will give caller busy tone when called. This setting will be released when user hangs up the phone.
*72	Unconditional Call Forward. To use this feature, dial "*72" and get the dial tone. Then dial the forward number and hang up.
*73	Cancel Unconditional Call Forward To cancel "Unconditional Call forward", dial "*73" and get the dial tone, then hang up.
*90	Busy Call Forward To use this feature, dial "*90" and get the dial tone. Then dial the forward number and hang up.
*91	Cancel Busy Call Forward To cancel "Unconditional Call Forward", dial "*91" and get the dial tone, then hang up
*92	Delayed Call Forward To use this feature, dial "*92" and get the dial tone. Then dial the forward number and hang up
*93	Cancel Delayed Call Forward
*123	Hawaii OnLine Voicemail

VoiceMail

Calls to voicemail can be made from a non-VoIP phone by calling 808-791-1580.



ATA Hardware specifications

Model	HandyTone-486
LAN interface	1xRJ45 10Base-T
WAN interface	1xRJ45 10Base-T
FXS telephone port	1xFXS
PSTN port	1x life line port
Button	1
LED	Green and red color
Universal Switching Power Adaptor	Input: 100-240VAC 50-60 Hz Output: +5VDC, 1200mA, UL Certified
Dimension 70mm (W)	130mm (D) 27mm (H) Weight 0.6lbs (0.3kg)
Temperature	40 - 130°F 5 - 45°C
Humidity	10% - 90% (non-condensing)