ATA-171/172/171P /171M (ATA-S1/S2/P/M) User's Guide

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User's Guide

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Safety Instructions

- To assure the finest performance, please read this manual carefully before install or operating the unit. Keep it in a safe place for future reference.
- Only authorized and qualified personnel may install or repair this product.
 Do not try to open or repair the unit yourself.
- Install the unit in a well ventilated, cool, dry, clean place, away from windows, direct sunlight, heat sources, vibration, dust, moisture, or cold. Don't touch the antenna unnecessarily.
- To prevent fire or electrical shock, don't expose to rain or water.
- Do not operate the unit upside-down. It may overheat possibly causing damage.
- Grounding or polarization Precaution should be taken so that the grounding or polarization of the unit is not defeated.
- To prevent damage by lightning, disconnect the power cord from the wall outlet during an electrical storm.
- The voltage to be used must be the same as that specified on this unit. Using this unit with a higher voltage than that which is specified is dangerous and may result in a fire or other type of accident causing damage. WELLTECH will not be held responsible for any damage resulting from use of this unit with a voltage other than that which is specified.
- Sudden temperature changes and storage or operation in an extremely humid environment may cause condensation inside the unit.
- When not planning to use this unit for long period of time (i.e., vacation, etc.), disconnect the AC power plug from the wall outlet.
- Keep the unit out of reach of children.
- When you want to dispose of the unit, please follow local regulations on conservation of the environment.

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Warranty

We warrant to the original end user (purchaser) that the products shall be confirmed to the relevant specifications and shall be free from defects in workmanship and materials for a period of one (1) year from date of purchase from the dealer.

Please keep your purchase receipt as it serves as proof of date of purchase. During the warranty period, and upon proof of purchase, should the product have indications of failure due to faulty workmanship and/or materials, we will, at our discretion, repair or replace the defective products or components, without charge for either parts or labor, to whatever extent we deem necessary tore-store the product to proper operating condition. Any replacement will consist of a new or re-manufactured functionally equivalent product of equal value, and will be offered solely at our discretion. This warranty will not apply if the product is modified, misused, tampered with, damaged by an act of God, or subjected to abnormal working conditions. The warranty does not cover the bundled or licensed software of other vendors. Defects which do not significantly affect the usability of the product will not be covered by the warranty. We reserve the right to revise the manual and online documentation and to make changes from time to time in the contents hereof without obligation to notify any person of such revision or changes.

Firmware Documents Updates

& It's due to the continuous evolution of WELLTECH Computer Co., Ltd., this model will be regularly upgraded. Please consult the WELLTECH web site for more information on latest firmware, tools and documents. http://www.welltech.com

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1 Introduction

This user's manual is for 1-port FXS and 1-port FXO (FXO only supported in ATA171M) VoIP terminal adapter (ATA). This user's manual will explain the IVR instruction, web configuration, and command line configuration for the ATA. Before using the ATA, some setup processes are required to make the ATA work properly. Please refer to the Setup Menu for further information.

1.1 Hardware Overview

The ATA has the following interfaces for Networking, telephone interface, LED indication, and power connector.

- 1.1.1 Two RJ-45 Networking interface, these two interfaces support 10/100Mps Fast Ethernet. you can connect one RJ-45 Fast Ethernet port to the ADSL or Switch, and connect the other one to your computer.
- 1.1.2 One RJ-11 Type analog telephone jack and line interfaces. You can connect one analog telephone to the terminal adapter or one PSTN line.
- 1.1.3 LED Indication: There are three LED indicators in the ATA to show the Power, Register, and Off-Hook indication.

1.2 Software Overview

Network Protocol	Tone	
SIP v1 (RFC2543), v2 (RFC3261) IP/TCP/UDP/RTP/RTCP IP/ICMP/ARP/RARP/SNTP TFTP Client/DHCP Client/ PPPoE Client Telnet/HTTP Server DNS Client NAT/DHCP Server	 Ring Tone Ring Back Tone Dial Tone Busy Tone Programming Tone Phone Function	
Codec	Volume Adjustment Speed dial key	
G.711: 64k bit/s (PCM) G.726: 16k / 24k / 32k / 40k bit/s (ADPCM)	Phone book Flash	
 G.729A: 8k bit/s (CS-ACELP) G.729B: adds VAD & CNG to G.729 	IP Assignment	
Voice Quality	Static IP DHCP PPPoE	
VAD: Voice activity detection	Security	
CNG: Comfortable noise generator LEC: Line echo canceller Packet Loss Compensation	 HTTP 1.1 basic/digest authentication for Web setup MD5 for SIP authentication (RFC2069/ RFC 2617) 	
Adaptive Jitter Buffer	QoS	
Call Function	ToS field	
Call Hold Call Waiting	NAT Traversal	
Call Forward Caller ID	• STUN	
3-way conference	Configuration	
DTMF Function	Web Browser	
In-Band DTMF Out-of Band DTMF SIP Info	Console/TelnetIVR/Keypad	
SIP Server	Firmware Upgrade	
Registrar Server (three SIP account) Outbound Proxy	TFTPConsoleHTTP	

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2 Keypad Interface for The ATA

You can use the PSTN phone keypad to operate the ATA. Please follow the instruction to configure your terminal adapter.

Group	IVR Action	IVR Menu Choice	Parameter(s)	Notes:
			\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Press 0* can pass call to PSTN
Function	Dial out from PSTN Line	0*	None	Line, user can dial out from PSTN Line. (For 171P and 171M)
Function	Unlock keypad setting	#190#	None	After you unlock keypad setting, then you may configure the ATA.
Function	Reboot	#195#	None	After you hear "Option Successful," hang-up. The system will reboot automatically.
Function	Factory Reset	#198#	None	System will automatically reboot. WARNING: ALL "User-Changeable" NONDEFAULT SETTINGS WILL BE LOST! This will include network and service provider data.
Function	Enable PPTP client	#116#	None	System will automatically reboot and PPTP client will be enabled
Function	Disable PPTP client	#117#	None	System will automatically reboot and PPTP client wll be disabled
Function	Enable VLAN	#118#	None	System will automatically reboot and VLAN will be enabled.
Function	Disable VLAN	#119#	None	System will automatically reboot and VLAN will be disabled
Function	Enable Call Waiting	#138#	None	System will automatically reboot and Call Waiting will be enabled.
Function	Disable Call Waiting	#139#	None	System will automatically reboot and Call Waiting will be disabled.
Function	Enable Anonymous	#140#	None	System will automatically reboot and Send Anonymous CID will be enabled.
Function	Disable Anonymous	#141#	None	System will automatically reboot and Send Anonymous CID will be disabled.
Function	Blind Transfer	#510#	None	Can only be performed in a phone call conversation. For 171M, this will transfer the current IP line to another IP line.
Function	Attendant Transfer	#511#	None	Can only be performed in a phone call conversation. For 171M, this will transfer the line to IP from PSTN (must be in IP mode to execute this command)
Function	3-way calling (IP Conference)	#512#	None	Can only be performed in a phone call conversation.
Function	Attendant Transfer	#514#	None	Can only be performed in a phone call conversation. For 171M, this will transfer the line to PSTN from IP (must be in PSTN mode to execute this command)
Info	Check WAN IP Address	#126#	None	IVR will announce the current WAN IP address of the ATA
Info	Check LAN IP Address	#120#	None	IVR will announce the current LAN IP address of the ATA
Info	Check IP Type	#121#	None	IVR will announce if DHCP in enabled or disabled.
Info	Check the Phone Number	#122#	None	IVR will announce current in use VoIP number
Info	Check Network Mask	#123#	None	IVR will announce the current network mask of the ATA.
Info	Check Gateway IP Address	#124#	None	IVR will announce the current gateway IP address of the ATA.
Info	Check Primary DNS Server Setting	#125#	None	IVR will announce the current setting in the Primary DNS field.
Info	Check Firmware Version	#128#	None	IVR will announce the version of the firmware running on the ATA.
Setting	Set DHCP client	#111#	None	The system will change to DHCP

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				Client type
Setting	Set Static IP Address	#112xxx*xxx*xxx*xxx#	Enter IP address using numbers on the telephone keypad. Use the * (star) key when entering a decimal point.	DHCP will be disabled and system will change to the Static IP type.
Setting	Set Network Mask	#113xxx*xxx*xx*	Enter value-using numbers on the telephone keypad. Use the * (star) key when entering a decimal point.	Must set Static IP first.
Setting	Set Gateway IP Address	#114xxx*xxx*xxx*xxx#	Enter IP address using numbers on the telephone keypad. Use the * (star) key when entering a decimal point.	Must set Static IP first.
Setting	Set Primary DNS Server	#115xxx*xxx*xxx*xxx#	Enter IP address using numbers on the telephone keypad. Use the * (star) key when entering a decimal point.	Must set Static IP first.
Setting	Set Codec	#130+[1-8]#	1:G.711 u-Law, 2: G.711 a-Law, 4: G.729a, 5: G.726 16K, 6: G.726 24K, 7: G.726 32K, 8: G.726 40K,	You can set the codec you want to the first priority.
Setting	Set Handset Gain	#131+[00~15]#	Handset Gain from 0~15	You can set the Handset gain to proper value, default is 6
Setting	Set Handset Volume	#132+[00~12]#	Handset Volume from 0~12	You can set the Handset volume to proper value, default is 10
Setting	Set Auto Configuration Mode	#137X#	Select the auto configuration mode, in the X field, you can press the following; 0:OFF 1:TFTP 2:FTP	You can set the auto configuration method you want, default is off
Setting	Set Auto Configuration For TFTP Server	#135xxx*xxx*xxx*	Enter IP address using numbers on the telephone keypad. Use the * (star) key when entering a decimal point.	Must set auto configuration method to TFTP first
Setting	Set Auto Configuration For FTP Server	#136xxx*xxx*xxx*	Enter IP address using numbers on the telephone keypad. Use the * (star) key when entering a decimal point.	Must set auto configuration method to FTP first

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3 Setup the ATA by Web Browser (LAN connection)

The ATA provides a built-in web server. You can use a Web browser to configure the ATA. For more detail instructions, please refer to the procedures below.

Step 1

Connect a straight through cable from the ATA's LAN port to a hub or switch, while making sure that your computer is also connected to the same hub or switch.

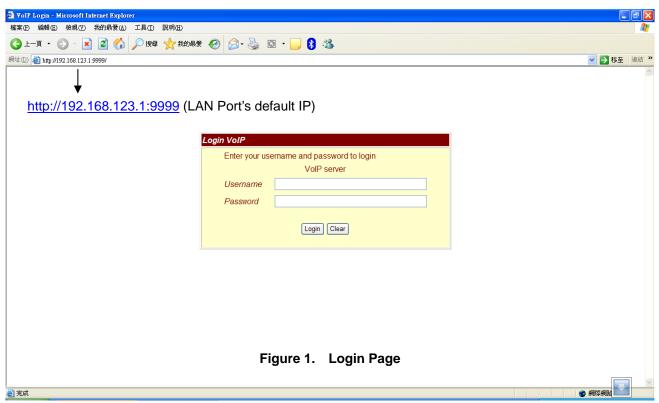
Step 2

Make sure you set your computer's network setting to DHCP mode (obtain IP address automatically). This is done in the Network Connections option that can be accessed in Control Panel.

Step 3

Open your web browser and in the address field, input the following IP address "http://192.168.123.1:9999".

The diagram below will show you an example of the web page menu:



3.1 Login.

- 3.1.1 Please input the username and password into the blank field. The default setting is:
- For Administrator, the username is: root; and the password is: test. If you use this account to login, you can configure all the setting.
- 2. For normal user, the username is: user; and the password is: test. If you use this account to login, you will not be able to configure any SIP settings due to authorization level.

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- 3.1.2 Click the "Login" button will move into the ATA web based management information page.
- 3.1.3 If you change the setting in the Web Management interface, please do remember to click the "Submit" button in that page. After you finished the change of the setting, click the "Save" function in the left side, and click the Save Button. When you finished the setting, please click the Reboot function in the left side, and click the Reboot button in that page. After the system restart, all the setting can work properly.

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- 3.2 System Information for the ATA.
 - 3.2.1 When you login the web page, you can see the ATA current system information like firmware version, company... etc in this page.
 - 3.2.2 Also you can see the function lists in the left side. You can use mouse to click the function you want to set up.

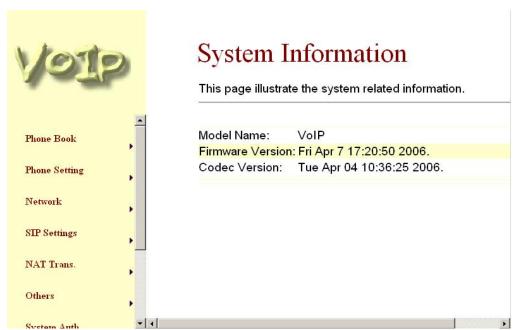


Figure 1. System Information

3.3 Phone Book

- 3.3.1 In Phone Book page contains (from page 1~14).
- 3.3.2 Phone: show serial number.
- 3.3.3 Name: setting other side telephone number
- 3.3.4 URL: other side IP address

Example.					
	Phone	Name	URL	Select	
	0	1	070000002@192.168.15.210		

When you dial 1# the device should search phone book, if search match number 1 will send out "070000002@192.168.15.210", if not got match number will send out 1.

- -1- If you need to add a phone number into the phone book, you need to input the position, the name, and the phone number (by URL type). When you finished a new phone list, just click the "Add Phone" button.
- -2- If you want to delete a phone number, you can select the phone number you want to delete then click "Delete Selected" button.
- -3- If you want to delete all phone numbers, you can click "Delete All" button.



Figure 2. Speed Dial

3.4 Phone Setting

- 3.4.1 In Phone Setting contains Call Forward, SNTP Settings, Volume Settings, DND Settings, Auto Answer, Caller ID, Dial Plan Settings, Flash Time Settings, Call Waiting, and T.38(FAX) Setting, Hot line Settings and Alarm Settings functions.
- 3.4.2 Call Forward function: you can setup the phone number you want to forward in this page. There are three type of Forward mode. You can choose All Forward, Busy Forward, and No Answer Forward by click the icon.
 - -1- All Forward: All incoming call will forward to the number you choosed. You can input the name(description) and the phone number in URL field. If you select this function, then all the incoming call will direct forward to the speed dial number you choose (Note: PSTN forwarding is only supported in ATA171M).
 - -2- Busy Forward: If you are on the phone, the new incoming call will forward to the number you choosed. You can input the name(description) and the phone number in URL field.
 - -3- No Answer Forward: : If you can not answer the phone, the incoming call will forward to the number you choosed. You can input the name(description) and the phone number in URL field. Also you have to set the Time Out time for system to start to forward the call to the number you choosed (Note: PSTN forwarding is only supported in 171M).
 - -4- When you finished the setting, please click the Submit button.
 - -5- If there is nothing need to change, please click the Save Change Item in the left side, then click the Save button. The change you made will save into the system and the system will Reboot automatically.



Figure 3. Forward Setting

3.4.3 SNTP Setting function: you can setup the primary and second SNTP Server IP Address, to get the date/time information. Also you can base on your location to set the Time Zone, and how long need to synchronize again. When you finished the setting, please click the Submit button.



Figure 4. SNTP Setting

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- 3.4.4 Volume Setting function: you can setup the Handset Volume, Ringer Volume, and the Handset Gain. When you finished the setting, please click the Submit button.
 - -1- Handset Volume is to set the volume for you can hear from the handset.
 - -2- Ringer Volume is to set the ringer volume for you can hear.
 - -3- PSTN-Out Volume is is to set the volume for you can hear from the PSTN side (Note: Only supported in ATA171M).
 - -4- Handset Gain is to set the volume send out to the other side's handset.
 - -5- PSTN-In Gain is to set the volume send out to the other side (Note: Only supported in ATA171M).
 - -6- When you finished the setting, please click the Submit button.
 - -7- If there is nothing need to change, please click the Save Change Item in the left side, then click the Save button. The change you made will save into the system and the system will Reboot automatically.



Figure 5. Volume Setting

- 3.4.5 DND Setting function: you can setup the DND Setting to keep the phone slience. You can choose Always Block or Block a period.
 - -1- Always DND: All incoming call will be blocked until disable this feature.
 - -2- DND Period: Set a time period and the phone will be blocked during the time period. If the "From" time is large than the "To" time, the Block time will from Day 1 to Day 2.
 - -3- When you finished the setting, please click the Submit button.
 - -4- If there is nothing need to change, please click the Save Change Item in the left side, then click the Save button. The change you made will save into the system and the system will Reboot automatically.

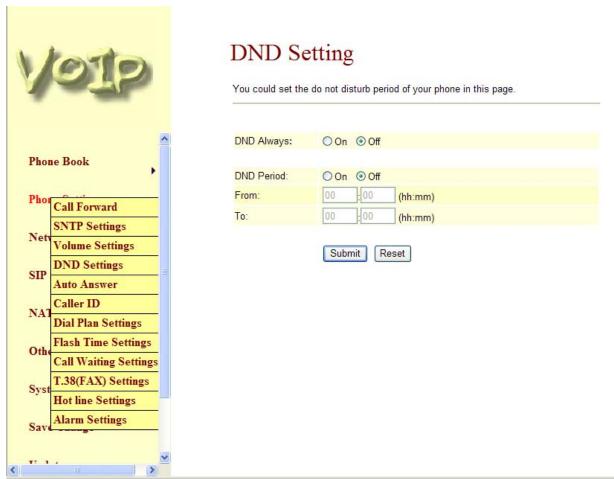
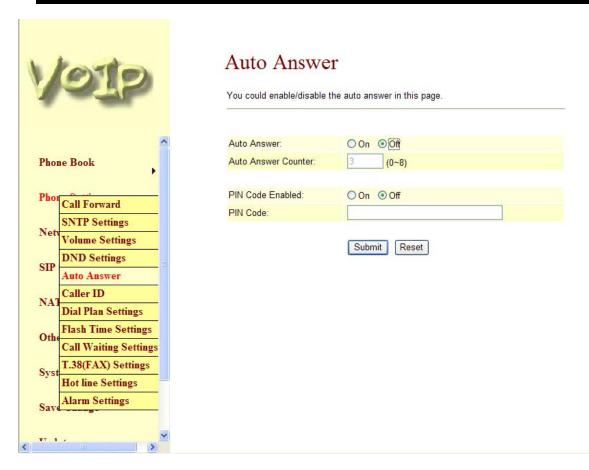


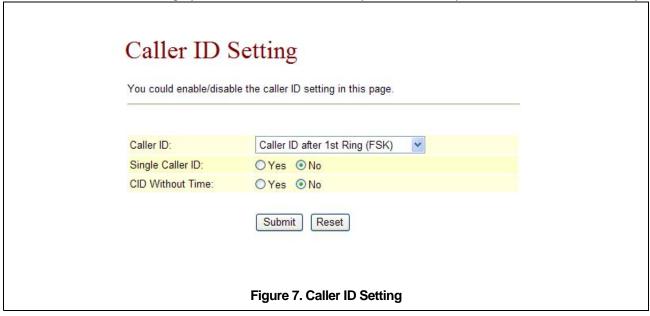
Figure 6. DND Setting

3.4.6 Auto Answer (For 171M only)

- -1- You can choose to disable or enable Auto Answer feature.
- -2- Auto Answer Counter: Specifies how many ring tones will be heard before it is switched to IP or PSTN line (depending on the type of incoming call). Default value is 3, you can set between 0~8.
- -3- You can choose to disable or enable PIN code feature. When a PIN code is set on the ATA device, once the auto answer counter value is encountered (for example 3 rings), you will hear a continuous series of beeps, the caller then must specify the PIN set followed by the hash key "#" to dial out and transfer to the second line. If the original call is IP, then it will be dialed out to PSTN and vice versa.



- 3.4.7 Caller ID function: you can set the device to show Caller ID in your PSTN Phone or IP Phone.
 - -1- There are four selection of Caller ID. You need to base on your environment to set the Caller ID function for FSK or DTMF. When you change the setting, please also double check the PTT seting in Others. You need to choose the correct country code then the Caller ID will be effect.
 - -2- When you finished the setting, please click the Submit button. If there is nothing need to change, please click the Save Change Item in the left side, then click the Save button. The change you made will save into the system and the system will Reboot automatically.



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3.4.8 Dial Plan Settings function: This function is when you input the phone number by the keypad but you don't need to press "#". After time out the system will dial directly. When you finished the setting, please click the Submit button. If there is nothing need to change, please click the Save Change Item in the left side, then click the Save button. The change you made will save into the system and the system will Reboot automatically.

Dial Plan

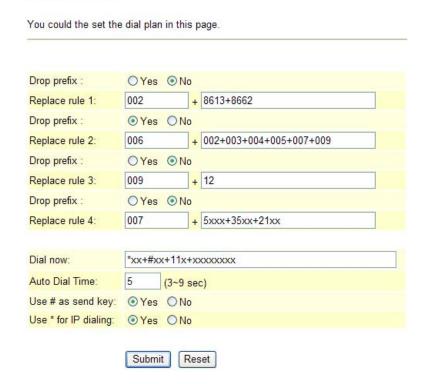
Drop prefix :	○Yes No	
Replace rule 1:	+	
Drop prefix :	○Yes	
Replace rule 2:	+	
Drop prefix :	○Yes	
Replace rule 3:	+	
Drop prefix :	○Yes ⊙ No	
Replace rule 4:	+	
Dial now:		
Auto Dial Time:	5 (3~9 sec)	
Use # as send key:	⊙ Yes ○ No	
Use * for IP dialing:	⊙ Yes ONo	

Figure 8. Auto Dial Setting

Drop Prefix	 No (add number): when the rule match will direct add number • Yes (reduce number): when the rule match will cut match number then add you setting number •
Replace rule1	Setting dial number rule • +: or •
	xxx: number limit •
Dial Now (*)	When there is a number that matches this field, the device will automatically dial the number specified. However, first digit cannot be set to 0, because the feature Dial Now is unable to detect first digit as 0. Therefore if Dial Now is set to 0xxxx, the system will not be able to send out this piece of information
Auto Dial Time	Wait setting time then auto dial number
Submit [Button]	Save setting value •
Reset [Button]	Clean all setting •

For example:

Dial Plan



1: Drop prefix: No, Replace rule 1: 002, 8613+8662

Explanation: If you dial a number that has a prefix matching 8613 or 8662, the device will automatically append the number 002 in front of the dialed number, therefore the number that will be dialed out is [002+8613+xxx] or [002+8662+xxx] depending on which of the two numbers were dialed.

2: Drop prefix: Yes, Replace rule 2: 006, 002+003+004+005+007+009;

Explanation: If you dial a number that has a prefix matching 002, 003, 004, 005, 007 or 009, the device will drop all these numbers and replace it with 006, therefore the number that will be dialed out is [006+xxx].

3:Drop prefix: No, Replace rule 3: 009, 12

Explanation: If you dial a number that has a prefix matching 12, the device will automatically append the number 009 in front of the dialed number, therefore the number that will be dialed out is [009+12+xxx].

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4:Drop prefix: No, Replace rule 4: 007, 5xxx+35xx+21xx

Explanation: This replacement rule will check if the first digit of the number is 5 followed by any three digits, if it is, the device will automatically append 007 to the dialed number. Therefore the number that will be dialed out is [007+5xxx]. This rule will also check whether the first two digits of the number dialed by the user is 35 or 21 followed by any two digits, if it matches, the device will automatically append 007 to the dialed number. Therefore the number that will be dialed out is [007+35xx] or [007+21xx] correspondingly. However, if the user dials a number that does not match the rule, for instance 534, the device will detect that only 2 digits were inputted to the end of the digit 5, not three, as a result the device will only dial the number 534 without appending 007. Likewise, if the number dialed does not match any of the prefix rules, only the original number will be dialed.

5:Auto Dial Time: 5

Explanation: While dialing a number, once the user stops pressing the keypad for 5 seconds, the device will commence the dialing process. For example, if the user dials 58946869 and stops dialing for 5 seconds, this number will be dialed. You can set this option within the range of 3 – 9 seconds.

6: Dial now: *xx+#xx+11x+xxxxxxxx

Explanation 1: If the number dialed matches the rule "*xx", it will automatically dial the dialed number, e.g. *00, *01, *02... *99. If the user happens to dial more digits in the end such as *001111, the system will detect that the first two matches the rule, and send out the number *00 regardless of the remaining digits. Hence the name Dial Now.

Explanation 2: If the number dialed matches the rule"#xx", it will automatically dial the dialed number, e.g. #00, #01, #02... #99. If the user happens to dial more digits in the end such as #001111, the system will detect that the first two matches the rule, and send out the number #00 regardless of the remaining digits. Hence the name Dial Now.

Explanation 3: If the number dialed matches the rule "11x", then it will automatically dial the dialed number, e.g. 110, 111, 112...119. If the user happens to dial more digits in the end such as 1101234 the system will detect that the first three matches the rule, and send out the number 110 regardless of the remaining digits. Hence the name Dial Now.

Explanation 4: If it detects the number dialed is 8 digits, then it will automatically send out the number dialed, e.g. 12345678.

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3.4.9 Flash Time Setting function: When you use the PSTN Phone and you need to press the Hook to do the Flash (Switch to the other phone line or HOLD), this function is for you to set the time you press the Hook to represent the Flash function. When you finished the setting, please click the Submit button. If there is nothing need to change, please click the Save Change Item in the left side, then click the Save button. The change you made will save into the system and the system will Reboot automatically (Note: Configuration for FXO Flash Time is only supported in ATA171M).



Figure 9. Flash Time Setting

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3.4.10 Call Waiting Setting function: You can Enable/Disable the Call Waiting function, When you are talking with someone, there is a new incoming call, you will hear the call waiting tone. When you finished the setting, please click the Submit button. If there is nothing need to change, please click the Save Change Item in the left side, then click the Save button. The change you made will save into the system and the system will Reboot automatically.



Figure 10. Call Waiting Setting

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3.4.11 T.38 Setting function: You can Enable/Disable the T.38 function. When you finished the setting, please click the Submit button. If there is nothing need to change, please click the Save Change Item in the left side, then click the Save button. The change you made will save into the system and the system will Reboot automatically (Note: T.38 Port of Phone 2 is only supported in ATA172).

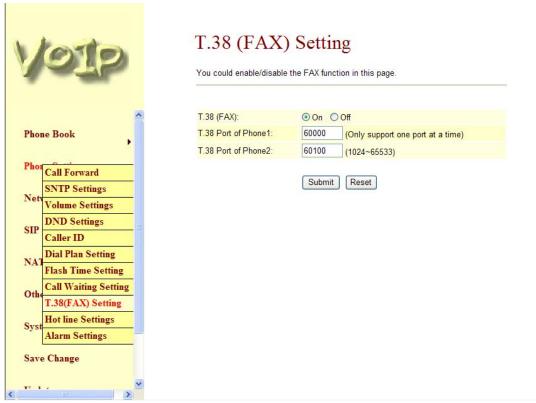


Figure 11. T.38 (FAX) Setting

3.5 Hot line



This function is support auto dial to you setting hot line number, when you setting this function device cannot dial any number.

3.6 Alarm setting



Alarm time: setting telephone ring time, when you setting time with current time are match device should produce a ring ,this time format is 24 hours.

- 3.7 Network
 - 3.7.1 In Network you can check the Network Status, WAN Settings, LAN Settings, DDNS Settings, VLAN Settings, DMZ Setting, Virtual Server and PPTP Settings.
 - 3.7.2 Network Status: You can check the current Network setting in this page.

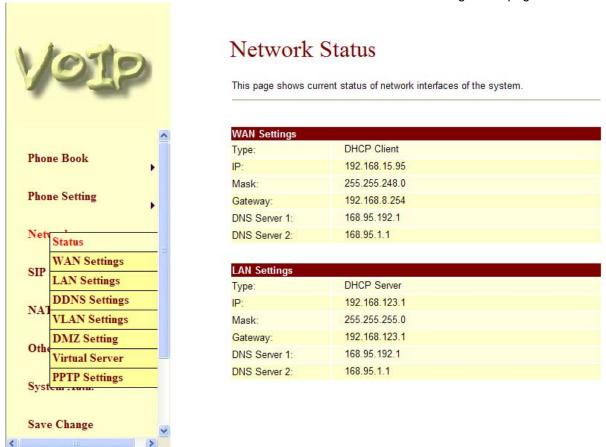
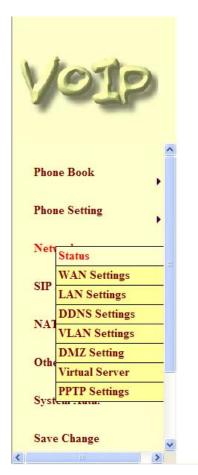


Figure 12. Network Status

3.7.3 WAN and LAN Settings:

- -1- If you change the WAN port's setting to Fix IP Mode, then you have to make sure the IP address. Net Mask, Gateway, and DNS setting is suitable in your current network environment
- -2- The WAN port is DHCP Client mode, You can change the setting to Fixed IP or PPPoE Mode. NOTE: WAN port IP address is in DHCP mode by default, please use #126# to hear WAN port get IP address.
- -3- If you change the WAN port's setting to PPPoE Mode, you have to input a correct username/password to get the IP address from your Internet Service Provider..
- -4- The LAN port's default IP address is 192.168.123.1, Net Mask is 255.255.255.0., and DHCP Server enabled. The start IP address if 150, end IP address is 200. It is not necessary to change the LAN settings.
- -5- You can connect your PC to the LAN port, set your PC as DHCP Client mode, then you can get IP addreess from the ATA.
- -6- When you finished the setting, please click the Submit button.
- -7- If there is nothing need to change, please click the Save Change Item in the left side, then click the Save button. The change you made will save into the system and the system will Reboot automatically.



Network Status

This page shows current status of network interfaces of the system.

WAN Settings		
Type:	DHCP Client	
IP:	192.168.15.95	
Mask:	255.255.248.0	
Gateway:	192.168.8.254	
DNS Server 1:	168.95.192.1	
DNS Server 2:	168.95.1.1	

LAN Settings	
Type:	DHCP Server
IP:	192.168.123.1
Mask:	255.255.255.0
Gateway:	192.168.123.1
DNS Server 1:	168.95.192.1
DNS Server 2:	168.95.1.1

Figure 13. Network Settings

User's Guide

Bridge Setting: If you don't want to use the NAT Mode, then you can set the network setting in this page.

- -8- The TCP/IP Configuration item is to setup the LAN port's network environment. You may refer to your current network environment to configure the VoIP Phone properly.
- -9- If you change the LAN port's setting to Fix IP Mode, then you have to make sure the IP address. Net Mask, Gateway, and DNS setting is suitable in your current network environment.
- -10- If you change the LAN port's setting to DHCP Client Mode, then you have to make sure in your current network environment has a DHCP server, then the TA will get the IP address from the DHCP Server.
- -11- If you change the LAN port's setting to PPPoE Mode, you have to input a correct username/password to get the IP address from your Internet Service Provider.
- -12- If you set the Bridge On, then the two Fast Ethernet ports will be transparent. Usually, we suggest you set the Bridge Mode is Enable, it will easy for you to connect any one of the port to the IP Network.
- 13- When you finished the setting, please click the Submit button.
- -14- If there is nothing need to change, please click the Save Change Item in the left side, then click the Save button. The change you made will save into the system and the system will Reboot automatically.

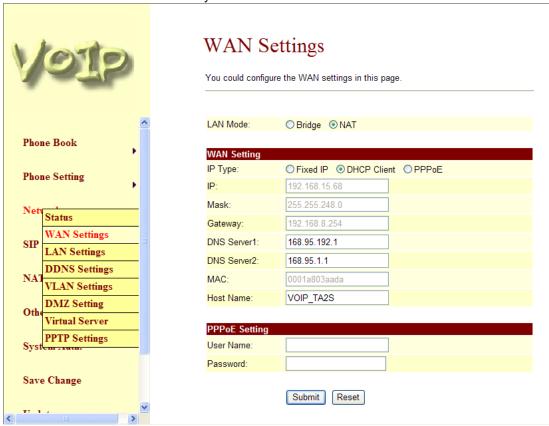


Figure 145. WAN Settings

3.7.4 DDNS Setting: You can configure the DDNS setting in this page. You need to have the DDNS account and input the informations properly. You can have a DDNS account with a public IP address then others can call you via the DDNS account. But now most of the VoIP applications are work with a SIP Proxy Server. When you finished the setting, please click the Submit button. If there is nothing need to change, please click the Save Change Item in the left side, then click the Save button. The change you made will save into the system and the system will Reboot automatically.

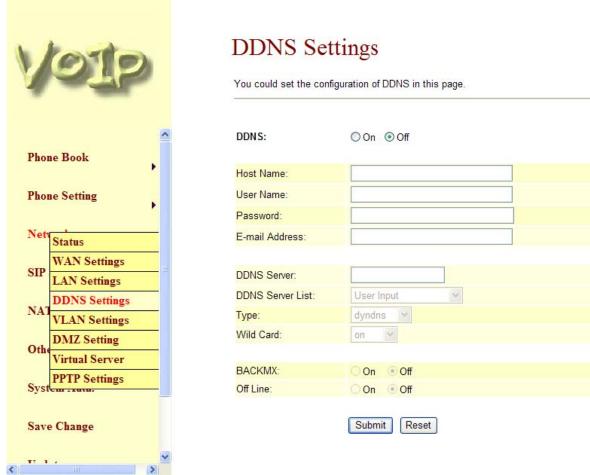


Figure 15. DDNS Setting

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- 3.7.5 VLAN Setting: You can set the VLAN setting in this page. There are two parts in this page. First one is to set the packets related to the TA, and the second parts is if you use the VLAN setting in the NAT Mode.
 - -1- There are two kind of destination packets will come from the TA's WAN port, one kind of packets will go to the TA, the other will go through the LAN port to the PC.
 - -2- VLAN Packets: if you enable the first VLAN Packets and set the VID, User Priority, and CFI, then all the incoming packets will be check with the IP Address and the VID.
 - -3- VID: You can follow your service provider to set your VID.
 - -4- User Priority: Defines user priority, giving eight (2³) priority levels. IEEE 802.1P defines the operation for these 3 user priority bits. Usually this will be defined by your service provider.
 - -5- CFI: Canonical Format Indicator is always set to zero for Ethernet switches. CFI is used for compatibility reason between Ethernet type network and Token Ring type network. If a frame received at an Ethernet port has a CFI set to 1, then that frame should not be forwarded as it is to an untagged port.
 - -6- When you enable the first VLAN Packets and set the VID, User Priority, and CFI, then all the incoming packets with the TA's IP address and the same VID will be accept by the TA. If the incoming packets with the TA's IP address but the different VID then the packets will be discard by the TA. The Other incoming packets with different IP address will go through the LAN port to the PC.
 - -7- If there is nothing need to change, please click the Save Change Item in the left side, then click the Save button. The change you made will save into the system and the system will Reboot automatically.

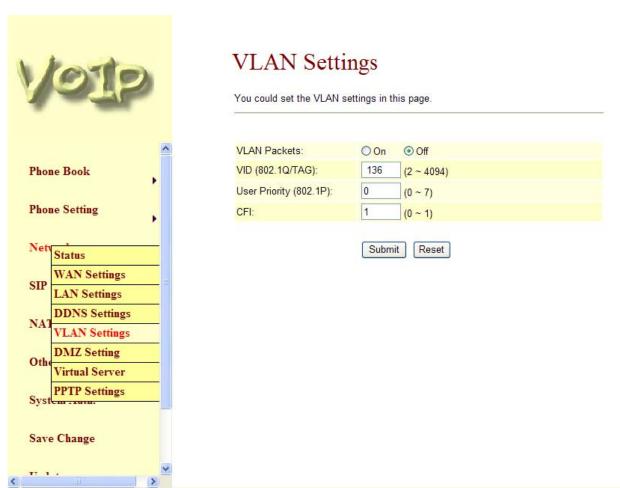


Figure 16. VLAN Setting

3.8 Virtual Server Setting

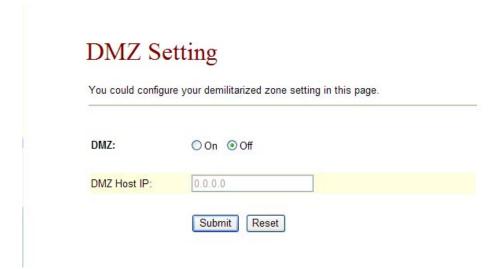
Virtual Server Settings

You could set your virtual servers in this page. The usual port numbers are WEB [TCP 80], FTP (Control) [TCP 21], FTP(Data) [TCP 20], E-mail(POP3) [TCP 110], E-mail(SMTP) [TCP 25], DNS [UDP 53] and Telent [TCP 23].

Num	Enable	Protocol	In Port	Ex Port	Server IP	Selec
0						
1						
2						
3						
4						
5						
6 7						
Enabl	le Selected	Deleti	e Selected	Delete All	Reset	
dd Virtu	ual Server) 				
lum:		(0~:	23)			
erver IP	;					
rotocol:		TCP 💌				
nternal I	Dout.		External F	Port:		

Virtual Server Page	To browse through different pages, click on the drop down box and select			
	the page number you wish to view.			
Num	This column displays the serial numbers, ranging from 0-23. There are			
	24 records in total.			
Enable	Click on the check box to enable this option, the default option is			
	unchecked (disabled).			
Protocol	Displays the TCP and UDP port information.			
In Port	Displays the internal port number			
Ex Port	Displays the external port number			
Server IP	Shows the IP address of the Server			
Select	To select a specific Virtual Server and perform configurations, click on the			
	check box according to the server that you wish to configure.			
Enable Selected	Enable the selected server			
[Button]				
Delete Selected	Delete the selected server			
[Button]				
Delete All [Button]	Delete all data ∘			
Reset [Button]	Clean all data •			
Num [Button]	Specify which record to insert the server on the table. The allowable			
	range is 0-23.			

3.9 DMZ Setting



DMZ	Default setting is Off (not executed). When activated, all packets (excluding SIP related packets) will be sent to the designated IP address
DMZ Host IP	Input the special IP address of the DMZ host.
Submit [Button]	Saves the configuration
Reset [Button]	Erases the configuration

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3.10 PPTP Settings

PPTP Settings

You could set the PPTP server in this page.		
PPTP:	○ On	
PPTP Server:		
PPTP Username:		
PPTP Password:		
	Submit Reset	

PPTP	Default setting is Off (not executed). When set to On (executed), PPTP function will be activated.	
PPTP Server	Input the IP address of the PPTP server's location.	
PPTP Username	Input the username (login details).	
PPTP Password	Input the password (login details).	
Submit [Button]	Saves the configuration	
Reset [Button]	Erases the configuration	

User's Guide

3.11 SIP Settings

- 3.11.1 In SIP Settings you can setup the Service Domain, Port Settings, Codec Settings, RTP Setting, RPort Setting and Other Settings. If the VoIP service is provided by ISP, you need to setup the related informations correctly then you can register to the SIP Proxy Server correctly.
- 3.11.2 Subscribe for MWI: this function is offer voice mail notify.
- 3.11.3 I In Service Domain Function you need to input the account and the related informations in this page, please refer to your ISP provider. You can register three SIP account in the TA. You can dial the VoIP phone to your friends via first enable SIP account and receive the phone from these three SIP accounts. For the second phone you can use the same way to register.
 - -1- First you need click Active to enable the Service Domain, then you can input the following items:
 - (1-1) Display Name: you can input the name you want to display.
 - (1-2) User Name: you need to input the User Name get from your ISP.
 - (1-3) Register Name: you need to input the Register Name get from your ISP.
 - (1-4) Register Password: you need to input the Register Password get from your ISP.
 - (1-5) Domain Server: you need to input the Domain Server get from your ISP.
 - (1-6) Proxy Server: you need to input the Proxy Server get from your ISP.
 - (1-7) Outbound Proxy: you need to input the Outbound Proxy get from your ISP. If your ISP does not provide the information, then you can skip this item.
 - (1-8) Register Period: you need to input the Register Period get from your ISP. This is count in minute.
 - (1-9) You can see the Register Status in the Status item. If the item shows "Registered", then your TA is registered to the ISP, you can make a phone call directly.
 - (1-10) If you have more than one SIP account, you can following the steps to register to the other ISP.
 - (1-11)When you finished the setting, please click the Submit button.
 - (1-12)If there is nothing need to change, please click the Save Change Item in the left side, then click the Save button. The change you made will save into the system and the system will Reboot automatically.



Figure 17. Service Domain Setting

3.11.4 Port Settings: you can setup the SIP and RTP port number in this page. Each ISP provider will have different SIP/RTPport setting, please refer to the ISP to setup the port number correctly. When you finished the setting, please click the Submit button. If there is nothing need to change, please click the Save Change Item in the left side, then click the Save button. The change you made will save into the system and the system will Reboot automatically (Note: SIP and RTP Port settings for phone 2 is only supported in ATA172).

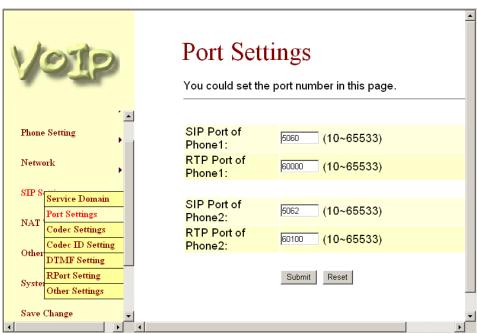


Figure 18. Port Setting

3.11.5 Codec Settings: you can setup the Codec priority, RTP packet length, and VAD function in this page. You need to follow the ISP suggestion to setup these items. When you finished the setting, please click the Submit button. If there is nothing need to change, please click the Save Change Item in the left side, then click the Save button. The change you made will save into the system and the system will Reboot automatically.



Figure 20. Codec Setting

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3.11.6 Codec ID Setting: Sometimes 2 VoIP device with different Codec ID will cause the interopability issue. If you are talking with others got some problems, you may ask the other one what kind of Codec ID he use, then you can change your Codec ID. When you finished the setting, please click the Submit button. If there is nothing need to change, please click the Save Change Item in the left side, then click the Save button. The change you made will save into the system and the system will Reboot automatically.

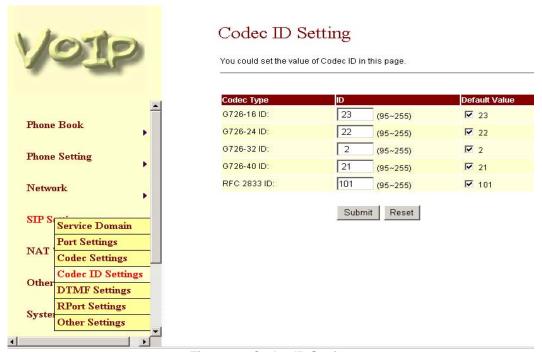


Figure 21. Codec ID Setting

3.11.7 DTMF Setting: you can setup the RFC2833 Out-Band DTMF, Inband DTMF and Send DTMF SIP Info in this page. To change this setting, please following your ISP information. When you finished the setting, please click the Submit button. If there is nothing need to change, please click the Save Change Item in the left side, then click the Save button. The change you made will save into the system and the system will Reboot automatically.



Figure 22. DTMF Setting

3.11.8 RPort Function: you can setup the RPort Enable/Disable in this page. To change this setting, please following your ISP information. When you finished the setting, please click the Submit button. If there is nothing need to change, please click the Save Change Item in the left side, then click the Save button. The change you made will save into the system and the system will Reboot automatically (Note: RPort configuration for phone 2 is only supported in ATA172).

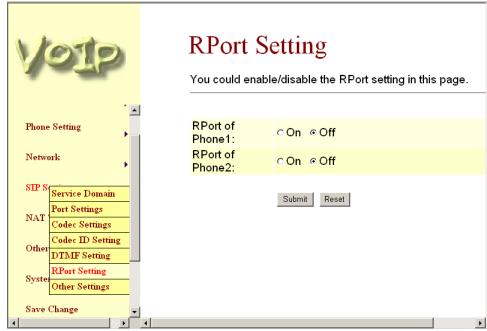
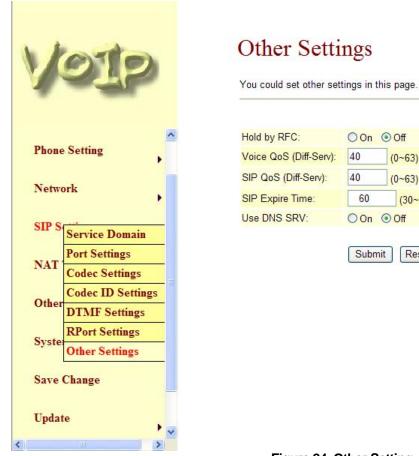


Figure 23. RPort Setting

3.11.9 Other Settings: you can setup the Hold by RFC, Voice/SIP QoS and SIP expire time in this page. To change these settings please following your ISP information. When you finished the setting, please click the Submit button. The QoS setting is to set the voice packets' priority. If you set the value higher than 0, then the voice packets will get the higher priority to the Internet. But the QoS function still need to cooperate with the others Internet devices. When you finished the setting, please click the Submit button. If there is nothing need to change, please click the Save Change Item in the left side, then click the Save button. The change you made will save into the system and the system will Reboot automatically.



You could set other settings in this page. On Off $(0 \sim 63)$

(30~86400 sec)

Reset

Figure 24. Other Setting

3.12 NAT Trans.

- In NAT Trans. you can setup STUN function. These functions can help your ATA working properly behind NAT.
- 3.12.2 STUN Setting: you can setup the STUN Enable/Disable and STUN Server IP address in this page. This function can help your TA working properly behind NAT. To change these settings please following your ISP information. When you finished the setting, please click the Submit button. If there is nothing need to change, please click the Save Change Item in the left side, then click the Save button. The change you made will save into the system and the system will Reboot automatically.

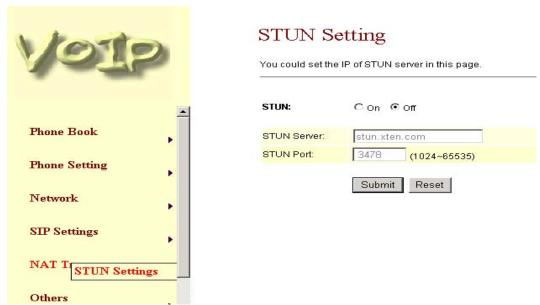


Figure 195. STUN Setting

3.13 Others

- 3.13.1 In Others you can setup Auto Config, PTT Setting and ICMP Setting function. The function can configure your VoIP Phone automatically.
- 3.13.2 Auto Config: you can setup the Auto Configuration Enable/Disable and auto configuration by FTP or TFTP. You need to select the way to do the Auto Configurationand set the Server IP address in this page. This function can automatically download the configure file to setup your TA.
- 3.13.3 When you finished the setting, please click the Submit button.
- 3.13.4 If there is nothing need to change, please click the Save Change Item in the left side, then click the Save button. The change you made will save into the system and the system will Reboot automatically.

Auto Configuration Setting



Figure 206. Auto Configuration Setting

Auto Configuration	Default setting is Off (not executed). Specify the methods on how auto configuration will be performed, the options are TFTP, FTP or HTTP.	
TFTP Server	Set the TFTP Server's location, you can input IP address or Domain Name information in this text box.	
HTTP Server	Set the HTTP Server's location, you can input IP address or Domain Name information in this text box.	
HTTP Path	Specify the path to store data, for e.g. /123/	
FTP Server	Set the FTP Server's location, you can input IP address or Domain Name information in this text box.	
FTP Username	Enter the relevant Username to log on to the FTP Server •	
FTP Password	Enter the relevant password associated with the inputted username to lo on to the FTP Server	
File Path Specify the path to store data, for e.g. /123/		
Submit [Button]	Saves the configuration	
Reset [Button]	Erases the configuration	

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3.13.5 Auto configuration example

Auto Configuration Setting

Auto Configuration:	OOff ○TFTP ○ FTP ⊙ HTTE
TFTP Server:	
HTTP Server:	192.168.1.150
HTTP Path:	/file/
FTP Server:	
FTP Username:	
FTP Password:	
File Path:	

Example 1: Auto Configuration: HTTP , HTTP Server: 192.168.1.50 , HTTP Path: /file/
Explanation: device will connect to the HTTP Server's /file/ folder path and search the matching
file •

Auto Configuration Setting

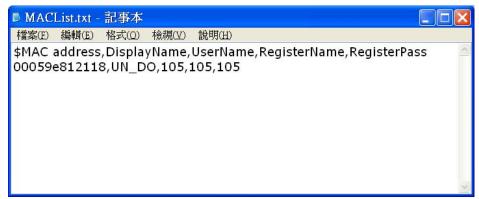
Auto Configuration:	OOff ○TFTP ● FTP ○HTT
TFTP Server:	
HTTP Server:	
HTTP Path:	
FTP Server:	192.168.1.150
FTP Username:	test
FTP Password:	••••
File Path:	/file/

2 : Auto Configuration: FTP , FTP Server: 192.168.1.150 , FTP Username: test , FTP Password: test , File Path: /file/ 。

Comment 1 : device will connect to the FTP Server's /file/ folder path and search the matching file $\,^{\circ}$

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- 3.13.6 How to produce auto Configuration file.
- 1 : Firstly, you need to find the MAC address of the device that you want to configured , for e.g. MAC Address: 00059e812118 ,



- Explanation 1: open the [MACList.txt] file then enter the these information in order[MAC Address, Display Name, User Name, Register Name, Register Pass] (example : 00059e812118, UN_DO, 105, 105, 105), when completed, please save your file.
- Explanation 2 : open the [StandardCFG.dat] file (use Windows notepad program to open the file) , then change the configurations parameters accordingly, once finished, please save the file .
- Explanation 3 : open the [MakeMACF.exe] file , download [MAC File: MACList.txt, Standard File: StandardCFG.dat] , select [Start] , then encrypt the file .



Explanation 4: the program will produce a encrypted string [00059e812118.dat] as the filename • Explanation 5: please insert the name of the newly encrypted filename [00059e812118.dat] to your [HTTP or FTP or TFTP Server] file path •

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3.13.7 Advanced Setting

ICMP Setting: you can setup the ICMP echo Enable/Disable in this page. This function can disable echo when someone ping this device, it can avoid haker try to attack the device. When you finished the setting, please click the Submit button. If there is nothing need to change, please click the Save Change Item in the left side, then click the Save button. The change you made will save into the system and the system will Reboot automatically.

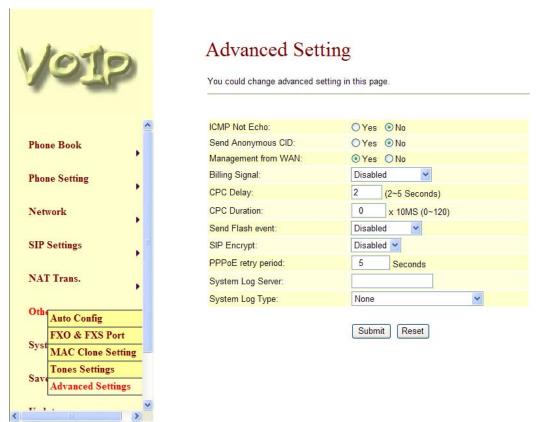


Figure 218. Advanced Setting

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ICMP Not Echo	Default setting is No (do not activate). Once activated all ping messages will not be responded.		
Send Anonymous CID	nous Default setting is No (do not activate). Once activated the device will no send its own number.		
Management from WAN	Default setting is Yes (do not activate). Once activated the device will restrict users to connect to it's WAN port (Note: Only supported in ATA171m).		
Billing Signal (*)	Default setting is Disabled (do not activate). Once activated the device will send a signal to notify about the billing status (Polarity Reversal, Tone_12K, Tone_16k) Support FXS Port		
CPC Delay	Default is 2 seconds, allows the system the ability to adjust the time taken to lower the voltage to 0V upon disconnection. Support FXS Port		
CPC Duration	Default value is 0ms (do not lower any voltage). Specifies how long the voltage will remain in ms when it is lowered to 0V.		
Send Flash event	Default setting is Disabled (do not activate). Provides two methods for sending flash event messages; DTMF Event and SIP Info.		
SIP Encrypt	Default setting is Disabled (do not activate). SIP's encryption method, four options to choose from; INFINET, AVS, WALKERSUN1, WALKERSUN2. Only works under environments that provide these services.		
PPPoE retry period (*)	Default value is 5 seconds, range is from 5~255. Specifies the time taken to redial when PPPoE dialing fails.		
System Log Server (*)	Specifies the location of the System log server where log information will be stored.		
System Log Type (*)	Default setting is None (do not activate). Specifies the format of system log messages, four to choose from; None, Call Statistics, Debug Information and Both.		
Submit [Button]	Save setting value.		
Reset [Button]	Clean all setting.		

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3.13.8 FXS and FXO impedence Setting: you can setup the FXS and FXO in this page. When you are using different country's PSTN Phone, you have to set the country's setting to meet the requirement. When you finished the setting, please click the Submit button. (Note: Configuration for FXO is only supported in ATA171M).

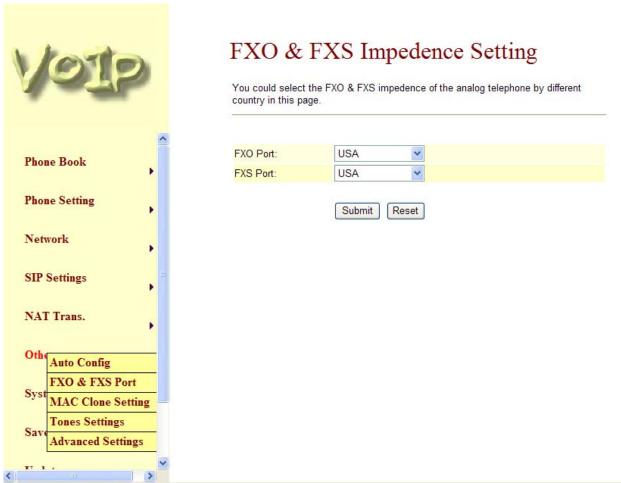


Figure 229. FXS and FXO impedence Setting

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3.13.9 (Call Transfer Operation)

Blind Transfer (Unconditional Transfer)

B calls A, A and B establishes a connection and during the conversation, A performs a call transfer to a third party. Firstly, A holds B's conversation channel, presses #510# then keys in the number of the third party. After that, A presses the hash symbol "#" to initiate the call transfer to the third party. Note: For 171M, this will only work when transferring a call from IP to IP.

Attendant Transfer

B calls A, A and B establishes a connection and during the conversation, A performs a call transfer to a third party. Firstly, A holds B's conversation channel, presses #511# then keys in the number of the third party. After that, A presses the hash symbol "#" to initiate the call transfer to the third party C. C accepts the incoming call and establishes a conversation channel by answering the incoming ring tone, when A hangs up during the conversation with C, the call is transferred where B and C will be in the same conversation channel, allowing them to talk to each other. Note: For 171M, if the transfer is performed from IP to PSTN, then the command used is #514#. If the call is performed from PSTN to IP, no access code is needed, when flash is pressed on the phone set connected to the ATA, the original caller will hear a dial tone provided by IP and continue the dialing process.

3.13.10 3-way (Conference)

B calls A, A and B establishes a connection and during the conversation, A would like to add another third party to the conversation. A holds the conversation channel with B, presses #512# then keys in the number of the third party. After that, A presses the hash symbol "#" to initiate the call to the third party C. Once C accepts the incoming call, A will then press the function button "flash" to enable the 3-way calling mode, where all three parties can now talk to one another.

3.13.11 (Call Waiting/Answering a Call on Waiting)

During the conversation between A and B, another third party C calls A, which A will notice from the call waiting tone that can be heard from A's side of the conversation channel. A will then hold B on standby, while switching to a different line in order to communicate with C. If B is still on hold, and A would like to talk to B again, A can release the hold off B and continue the original conversation.

3.14 MAC Clone setting

MAC Clone Setting

You could enable/disable the MAC clone setting in this page.		
MAC Clone:	Con ⊙off	
	Submit Reset	

MAC Clone setting: This function changes the MAC Addresses of workstations in a LAN to which that are identical to the WAN port; this is done due to the fact that some ISP companies restrict the use of multiple MAC Addresses through PPPoE.

connect LAN port PC MAC Address to device WAN Port, let your PC MAC address with your device are same MAC; Because some ISP company should lock (PPPoE) MAC Address •

- 3.15 System Auth.
 - 3.15.1 In System Authority you can change your login name and password. When you finished the setting, please click the Submit button. If there is nothing need to change, please click the Save Change Item in the left side, then click the Save button. The change you made will save into the system and the system will Reboot automatically.

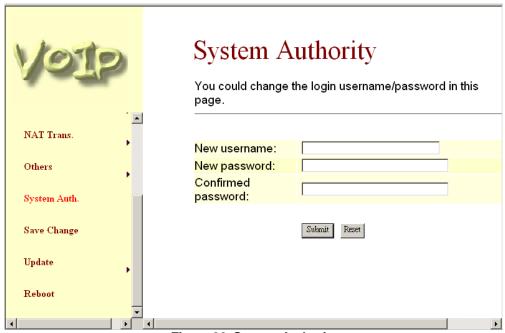


Figure 30. System Authority

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3.16 Save Change

3.16.1 In Save Change you can save the changes you have done. If you want to use new setting in the ATA, You have to click the Save button. After you click the Save button, the ATA will automatically restart and the new setting will effect.

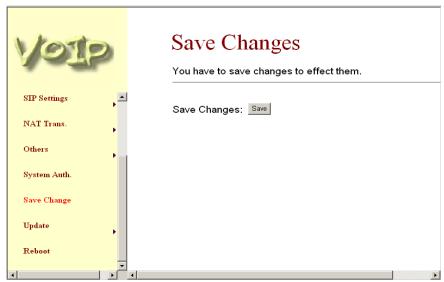


Figure 31. Save Change

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3.17 Update Rom firmware:

- 3.17.1 In Update you can update the ATA's firmware to the new one or do the factory reset to let the ATA back to default setting.
- 3.17.2 In New Firmware function you can update new firmware via HTTP in this page. You can ugrade the firmware by the following steps:
 - -1- Select the firmware code type, ROM code.
 - -2- Click the "Browse" button in the right side of the File Location or you can type the correct path and the filename in File Location blank.
 - -3- Select the correct file you want to download to the ATA then click the Update button.
 - -4- After finished the update firmware process, the system will Reboot automatically.

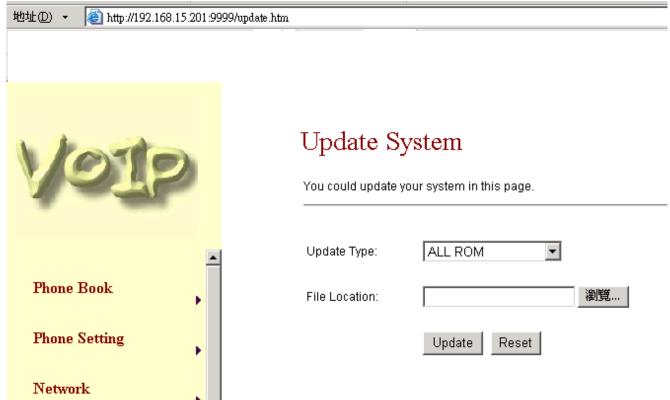


Figure 32. Update Firmware

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3.17.3 In Default Setting you can restore the TA to factory default in this page. You can just click the Restore button, then the TA will restore to default and automatically restart again. The Default Setting will be NAT Mode, WAN port is DHCP Client Mode, LAN port is Fixed IP Mode and the IP Address is 192.168.123.1.



Figure 33. Restore Default Setting

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3.18 Reboot

3.18.1 Reboot function you can restart the ATA. If you want to restart the ATA, you can just click the Reboot button, then the ATA will automatically.

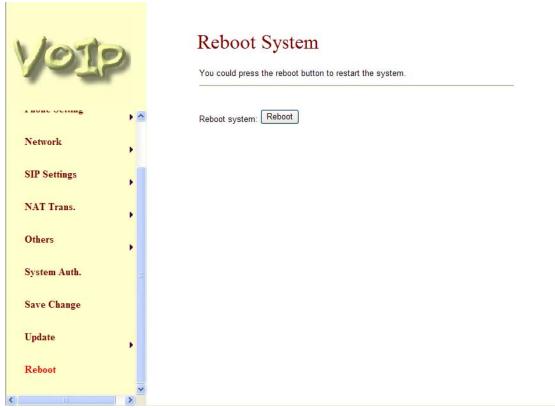


Figure 34. Reboot System

4 Setup the ATA by using Console (Hyper Terminal)

4.1 Configure the COM port

First Open the hyper terminal window, select the connection by the COM port, and then click the "Setting" button.



Figure 23. Console Setting-1

Set the COM port's setting as following setting. Then click OK.



Figure 24. Console Setting-2

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4.2 Login into the ATA

After finished the setting, click the "Connect" button (looks like a telephone icon). Then the hyper terminal is ready to connect to the ATA. Press "Enter" and the hyper terminal will show the "Login: ". Input "root" and press the "Enter" button. Then hyper terminal will show the "Password: ". Input "test" and press the "Enter" button. Now you already login the ATA. Please follow the CLI command list to configure the ATA with proper instruction and value.

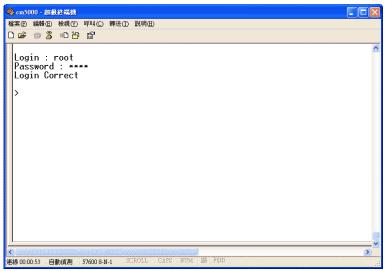


Figure 25. Console Screen

4.3 Using CLI command to configure the ATA

4.3.1 CLI command list as below:

Index	Command	Description
1	?	Show CLI Command
2	arp	ARP Configuration
3	ipconfig	Interface Configuration
4	save	Save to flash
5	reboot	Reboot
6	exit	Exit
7	debugmode	Enter Debug Mode
8	update	Update Flash Code/RAM
9	auth	Change User Name and Password
10	nat	NAT Configuration
11	dns	DNS Configuration
12	ping	ping [-IN] [IP-addr host-name]
13	sip	SIP Configuartion
14	ddns	DDNS Configuartion
15	sntp	SNTP Configuartion
16	vlan	VLAN Configuartion
17	time	Get System Time
18	mactab	Show MAC Learning Table
19	dump	Read/Write Memory
20	book	Edit phone book
21	reload	Reload Factory Setting
22	watchdog	WatchDog Function
23	phone	Phone Setting
24	weblogo	Change Web's logo
25	dsp	Show dsp type
26	addport	Add Nat Port Mapping
27	cid	Select slic Cid
28	slic	read or write slic registers
29	ver	Firmware Version

-1- "?" function is to show CLI command list in the screen.

-2- arp function

Index	Command	Description
1	?	Show 'arp' Option
2	- a	Show ARP Table
3	-d	Delete ARP Table
4	- S	Set Static ARP Table
5	(null)	Show ARP Table

-3- ipconfig function

Index	Command	Description
1	?	Show 'ipconfig' Option
2	-if0	Interface 0
3	-if1	Interface 1
4	-if2	Interface 2
5	-h	Set Host Name
6	- a	Set ARP Cache Expire
7	-r	Restore Current Setting
8	(null)	Show IP Setting

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(3-1) ipconfig –ifN function \rightarrow N is 0, 1, 2

Index	Command	Description
1	?	Show 'ipconfig -ifN' Option
2	-t	Set Host Type
3	-m	Set MAC Address
4	-i	Set IP Address
5	-nm	Set Net Mask
6	-g	Set Gateway
7	-dns0	Set Primary DNS server
8	-dns1	Set Secondary DNS server
9	-dr	Set Default Route
10	-nat	Set NAT
11	on	Enable Interface
12	off	Disable Interface
13	-dhcps	DHCP Server Setting
14	-ddns	Set DDNS
15	-bridge	Set Bridge
16	-dev0	Set Device 0 Setting
17	-dev1	Set Device 1 Setting
18	-dev2	Set Device 2 Setting
19	(null)	Show Interface Setting

-4- save function

Index	Command	Description
1	?	Show 'save' Option
2	-book	Save phone book
3	-sys	Save system setting

- -5- reboot function is to restart the system.
- -6- exit function is to exit the CLI.
- -7- debugmode function is to enter the debugmode.

-8- update function

Index	Command	Description
1	?	Show 'update' Option
2	- 0\$	Update OSImage(IP filename)
3	-dsp	Update DSP Image(IP filename)
4	-all	Update All Image(IP filename)
5	-server	Update Server (IP filename length)
6	-pcm	PCM(IP filename)
	-alaw	alaw (IP filename)
	-ulaw	ulaw (IP filename)
	-g729	g729 (IP filename)
	-g726.16	g726.16 (IP filename)
	-g726.24	g726.24 (IP filename)
	-g726.32	g726.32 (IP filename)
	-g726.40	g726.40 (IP filename)

IP is the TFTP server's IP address, and the filename is the image you want to download into the system.

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-9- auth function

Index	Command	Description
1	?	Show 'auth' Option
2	-admin	Change Administrator user name/password
3	-sys0	Change System user0 user name/password
4	-sys1	Change System user1 user name/password
5	-sys2	Change System user2 user name/password
6	-sys3	Change System user3 user name/password
7	-sys4	Change System user4 user name/password
8	-norm0	Change Normal user0 user name/password
9	-norm1	Change Normal user1 user name/password
10	-norm2	Change Normal user2 user name/password
11	-norm3	Change Normal user3 user name/password
12	-norm4	Change Normal user4 user name/password
13	-ppp	Change PPP user name/password
14	(null)	Show auth Setting

In each item includes

Index	Command	Description
1	?	Show 'auth' Option
2	-user	Change User Name.'auth -sys3 -user xxx '
3	-pass	Change Password. 'auth -sys3 -pass xxx xxx'
4	(null)	Show auth's System/PPP Setting

If you want to change the password, you need to type the password twice in the CLI.

-10- nat function

Index	Command	Description
1	?	Show 'nat' Option
2	-VS	Set 'nat -vs' Option
3	-dmz	Set 'nat -dmz' Option
4	(null)	Show NAT Setting

In DMZ item includes

Index	Command	Description
1	?	Show 'nat -dmz' Option
2	on	EnableDMZ
3	off	EnableDMZ
4	-ip	Set DMZ IP address
5	(null)	Show DMZ Setting

-11- dns function

Index	Command	Description
1	?	Show 'dns' Option
2	-q	DNS query. dns -q domain-name
3	(null)	Show DNS Table

-12- ping function

	9	
Index	Command	Description
1	?	Show 'ping' Option
2	-	ping [-I N] [IP-addr host-name]
3	(null)	ping [IP-addr host-name]

-13- sip function

Index	Command	Description
1	?	Show 'sip' Option
2	-proxy0	sip -proxy0
3	-proxy1	sip -proxy1
4	-proxy2	sip -proxy2
5	-upnp	sip -upnp on/off/show
6	-exts	sip -exts sip upnp external-port
7	-extr	sip -extr rtp upnp external-port
8	-sipp	sip udp port
9	-rtpp	sip rtp port
10	-stun	sip -stun on/off
11	-rport	sip -rport on/off
12	-sserver	sip -sserver stun-server
13	-out	sip -out outbound-proxy
14	-dump	sip –dump
15	-log	sip -log on/off
16	-drtp	sip -drtp 0/1/2
17	-rtpnc	sip -rtpnc on/off
18	-wanip	sip –wanip
19	-nattype	sip –nattype
20	-hbyrfc	sip –hbyrfc
21	-dereg	sip -dereg
22	-restart	sip -restart
23	-jbt	sip -jitter buffer Threshold
24	(null)	Show SIP Setting

-14- ddns function

Index	Command	Description
1	?	Show 'ddns' Option
2	-type	Set DDNS Type
3	-host	Set Host Name
4	-wild	Set Wild Card Mode
5	-mx	Set Mail Exchanger
6	-backmx	Set Mail Exchanger Mode
7	-offline	Set Offline Mode
8	-user	Set Login User Name
9	-pass	Set Login Password
10	(null)	Show DDNS Setting

-15- sntp function

Index	Command	Description
1	?	Show 'sntp' Option
2	-on	Enable SNTP Client
3	-off	Disable SNTP Client
4	-ip1	Set SNTP Server1 IP
5	-ip2	Set SNTP Server2 IP
6	-mode	Set SNTP Client Mode
7	-zone	Set GMT Time Zone: [+ -][hour]:[min]
8	-adjust	Set Adjustment Time: [second]
9	(null)	Show SNTP Setting

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-16- vlan function

Index	Command	Description
1	?	Show 'vlan' Option
2	-tx	Tx Vlan setting
3	-rx	Rx Vlan setting
4	(null)	Show Vlan Setting

-17- time function

Index	Command	Description
1	?	Show 'Time' Option
2	-t	Modify Time: hour:min:sec
3	-d	Modify date: year:mon:date
4	(null)	Show Data & Time

-18- mactab function is to show MAC learning table.

-19- dump function

Index	Command	Description
1	?	Show 'dump' Option
2	-r	dump -r XXXXxxxx
3	-W	dump -w XXXXxxxx XX

-20- book function

Index	Command	Description
1	?	Show 'book' Option
2	- a	Show answer list
3	-C	Show call list
4	- S	speed dial
5	- p	phone book

-21- reload function is to Reload Factory Setting, please make sure you want to do the factory reset.

-22- watchdog function

Index	Command	Description
1	?	Show 'WatchDog' Option
2	on	Enable WatchDog
3	off	Disable WatchDog
4	(null)	Show WatchDog Setting

-23- phone function

Index	Command	Description
1	?	Show 'phone' Option
2	-autoanswer	phone auto answer
3	-vol	Volume setting
4	-block	Block Incoming call
5	-ring	Set Melody Ringer
6	-forward	Auto-forward Incall to Phone[0-9] in Book
7	(null)	Show Phone Setting

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-24- weblogo function

Index	Command	Description
1	?	Show 'weblogo' Option
2	-on	Vender Logo
3	-off	Default Logo
4	(null)	Show weblogo Setting

- -25- dsp function is to show dsp code type.
- -26- addport function is to add Nat Port Mapping

-27- cid function

Index	Command	Description
1	?	Show 'cid' Option
2	-off	Disable Slic Cid signal
3	-1	Tx FSK after 1st Ring
4	-2	Tx FSK before 1st Ring
5	-3	Tx DTMF before 1st Ring
6	-4	Tx FSK with Line reversal before 1st Ring
7	-5	Tx DTMF with Line reversal before 1st Ring
8	-time	FSK cid with time message
9	-single	Single type FSK CID
10	(null)	Show Cid Option

-28- slic function

Index	Command	Description
1	?	Show 'slic' Option
2	-ring	Issue Ring signal
3	-r	read slic addr
4	-W	write slic addr
5	-a	read all slic reg
6	(null)	Show slic register

-29- ver function is to show Firmware Version.

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5 How to make a phone call

When your ATA is configured properly, you can make a phone call to your friend in the same Service provider.

If you want to make a phone call, you can dial the phone number and press "#" button to start to dial the phone number.

The ATA also provides some functions that list as below:

- 1. Call Waiting: When a new call is coming while you are talking, you can push the Flash button to switch to the new call. You can push the Flash button to switch between the two calls.
- 2. Call Hold: You can push the Hold key to hold the current call for a while, then push Hold key again to keep talking.
- 3. 3-way conference: If you want to make a 3-way conference call, you can make a phone call to the first phone number. After the call is established, push the Flash button then you can hear the Dial tone, then make a phone call to the second phone number. When the second call is established, press the Flash button again.