



# **ANALOGUE ADAPTER VOISPEED V-6016**



# User Manual

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Declaration of conformity can be found at this internet address:  
[http://www.voispeed.com/products/conformity/V-6016\\_DDC.pdf](http://www.voispeed.com/products/conformity/V-6016_DDC.pdf)

# 1 - Index

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<b>1 -</b>	<b><i>Index</i></b> .....	<b>1</b>
<b>2 -</b>	<b><i>Introduction</i></b> .....	<b>5</b>
<b>3 -</b>	<b><i>Security information</i></b> .....	<b>5</b>
3.1 -	How to use the device correctly .....	5
3.2 -	Qualified personnel .....	5
3.3 -	Accessories .....	5
3.4 -	Waterproof guidelines.....	5
3.5 -	Connecting other devices .....	5
3.6 -	Device position .....	5
3.7 -	Connecting to power supply .....	5
3.8 -	Cleaning the device.....	6
3.9 -	Product Disposal .....	6
3.10 -	Product Warranty.....	6
<b>4 -</b>	<b><i>General Information</i></b> .....	<b>8</b>
4.1 -	General specifications .....	8
4.2 -	Main functionalities .....	8
4.3 -	List of components in the package.....	9
4.4 -	Getting started .....	9
4.5 -	Installation.....	9
4.6 -	LEDs .....	9
<b>5 -</b>	<b><i>Basic operations</i></b> .....	<b>10</b>
5.1 -	Manual configuration .....	10
<b>6 -</b>	<b><i>Configuration using the web interface</i></b> .....	<b>10</b>
6.1 -	Current status .....	11
6.2 -	Network Setting .....	12
6.3 -	SIP Setting.....	12
6.4 -	Advanced settings.....	14
6.4.1	Digital Map .....	14
6.4.2	DSP config .....	16
6.4.3	Account config .....	18

<b>6.4.4</b>	<b>Time config .....</b>	<b>18</b>
<b>6.5</b>	<b>System manage .....</b>	<b>19</b>
<b>6.5.1</b>	<b>Web update .....</b>	<b>19</b>
<b>6.5.2</b>	<b>FTP Update .....</b>	<b>19</b>
<b>6.5.3</b>	<b>Auto Update .....</b>	<b>20</b>
<b>6.5.4</b>	<b>Clear Config .....</b>	<b>20</b>
<b>6.5.5</b>	<b>Backup config.....</b>	<b>20</b>
<b>6.5.6</b>	<b>Reboot.....</b>	<b>20</b>

## 2 - Introduction

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We would like to thank you for your purchase and for having chosen one of our products. This manual provides general guidelines for a correct use of the product. In case you require further information on this product or to receive technical assistance please visit our website: [www.voispeed.com](http://www.voispeed.com).

## 3 - Security information

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Please read the security rules below that you should follow when using this device. Please comply with these guidelines to avoid taking unnecessary risks.

### 3.1 - How to use the device correctly

Use the device only in the standard working position.

### 3.2 - Qualified personnel

Any installations or repairs on the product should be carried out only by qualified and fully trained personnel.

### 3.3 - Accessories

Use only accessories that are fully approved by The Manufacturer. Do not connect to any non compatible products.

### 3.4 - Waterproof guidelines

The device is not waterproof. Avoid contact with liquids.

### 3.5 - Connecting other devices

If you connect the device to other devices please read the user guide of the new equipment first. Do not connect the device to any non compatible products.

### 3.6 - Device position

Avoid prolonged exposure to direct sunlight. Do not place the device near sources of intense heat (e.g. radiators, fire, etc.) and near electronic equipment producing strong magnetic fields (speakers, microwaves ovens, etc.). Do not install the device in humid rooms and avoid contact with liquids. Do not expose the device to aggressive gas and do not use it in too dusty environments. Never use the device in presence of any explosive gas (e.g. methane). Refrain from opening any parts of the product and do not touch the plugs with metal or sharp objects.

### 3.7 - Connecting to power supply

Please make sure that the power supply complies with the voltage setting of your equipment. If you have any doubts about the voltage setting, please call the technical support. Do not remove any security devices. Always disconnect the telephone from the

power supply during storms. All maintenance work should be carried out by qualified personnel.

### 3.8 - Cleaning the device

We suggest cleaning the equipment only using a slightly damp cloth.

### 3.9 - Product Disposal

**Our products are compliant with the European Directives 2002/95/CE, 2002/96/CE and 2003/108/CE regarding the limitation of use of lead, mercury, cadmium, chromium (VI) as well as some flame retardants and hazardous material within electric and electronic equipment and disposal.**



The sign above representing a crossed waste bin indicates that the product, once no longer utilised, must be disposed of by separating it from any normal waste. The user must ensure that the product, once reached its end-life, is given to qualified organisations responsible for the collection of electronic and electrical waste. The user may otherwise choose to return the equipment to the manufacturer when purchasing a new equivalent device. In this case the product returned must correspond to the one being purchased. Suitable disposal of the equipment in accordance with relevant recycling guidelines helps the environment and fosters sustainable development. Unlawful disposal of this equipment is an offence and may lead to prosecution in accordance with the Country's laws in which the disposal takes place.

**Correct disposal benefits us and the environment.**

### 3.10 - Product Warranty

The Manufacturer (Harpax Srl.) warrants its products to be free from defects in material and workmanship during the warranty period. The product is covered by warranty only if it is used in compliance with the guidelines contained in this manual. This warranty will be invalidated in case of manumission, wrong use of the product or accidental damage. This product is compliant with CE regulations.

The warranty period starts from the date the product has been purchased (stated on the invoice) and will last for twelve (12) months thereafter. If a product proves to be defective

in material or workmanship during the warranty period, The Manufacturer will, at its sole discretion, repair or replace the product with a similar one (new or re-conditioned). The replacement unit will be covered by a new warranty period that will last the remaining time on the customer's original limited warranty. The old equipment substituted will automatically become property of Harpax Srl.

In order to have access to the warranty the user must fill out the online form that can be found on [www.prontopbx.com](http://www.prontopbx.com) or [www.voispeedltd.com](http://www.voispeedltd.com) (please also contact the customer support department on 01727 848186). The user must provide a valid invoice to claim warranty on the product.

#### ***Exclusions.***

***The warranty will be invalidated in the following cases:***

- ***Damages to any parts that are meant to wear out with time. No support, maintenance or replacement will be provided for these components.***
- ***Damages resulting from using a wrong power supply.***
- ***Damages resulting from misuse or actions that do not comply with the guidelines of this manual.***
- ***Damages resulting from lack of maintenance as advised by The Manufacturer.***
- ***Damages resulting from installing or using the product without complying with the relevant standards (legal, health and safety, technical, etc.) that are in place in the Country where the product is utilised.***
- ***Damages resulting from misuse, negligence, unauthorized product modification, repair or attempted repair by anyone not authorized by The Manufacturer (including the user) or failure to follow instructions supplied with the product.***
- ***Damages caused during product transportation or delivery due to insufficient or inappropriate packaging.***
- ***Damages caused by accident, fire, water, any acts of nature, insufficient ventilation or other causes that do not fall under the control of The Manufacturer.***
- ***Damages caused from any unintentional or deliberate human acts.***
- ***Damages caused from manumission or in conjunction with warranty labels being broken.***

- **Damages to Software or any Hardware component not supplied by The Manufacturer with the product.**

***This warranty is only valid within the European Community.***

## **4 - General Information**

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The V-6016 is a stand-alone device that needs to be connected to the local area network. It is provided of two RJ11 ports to connect standard analogue telephone devices (telephones or faxes). These devices will be controlled by the PBX as traditional SIP extensions. The V-6016 is also provided of a switch that is particularly useful in case of multiple installations.

### **4.1 - General specifications**

Power supply	IN	110-220V AC
	OUT	12V DC 2A
Ports	PC	1 10/100Base T RJ-45
	LAN	1 10/100Base T RJ-45
	FXS	2 RJ11 for telephones
Power		2.8W/1.9W
Operating temperature		0~60
Operating humidity		5~95%
Dimensions		103mm*113mm*40mm
Weight		840g

### **4.2 - Main functionalities**

- Network protocols: TCP/UDP/IP, HTTP, DHCP Client, FTP, TFTP.
- Switch port (PC).
- VoIP protocols: SIP (RFC3261, RFC3262, RFC3264, RFC3265).
- Voice Codec: G.711 (A-law/U-law), G.723.1, G.729A/B.
- The system supports standard voice functions such as Caller ID, On Hold, Call Transfer, Do Not Disturb, DTMS Tones, Hot Keys (Hotline Autodial: to dial a number as soon as the handset is lifted).
- Manual configuration (through web interface) or automatic (through TFTP or HTTP).
- Remote firmware update through TFTP/FTP or HTTP.



- Pass-through fax and T.38 fax.

### 4.3 - List of components in the package

- One V-6016 SIP adapter.
- One power supply.
- One Ethernet UTP5 cable with RJ-45 connectors.
- One RJ-11 telephone cable.
- User manual.

### 4.4 - Getting started

Before connecting the V-6016 adapter to the network, please make sure that both your network and VOIspeed server are working correctly.

*NB: before you can use any analogue devices connected to the V-6016 adapter you will need to create additional users at the server PBX.*

### 4.5 - Installation

#### Connections

- Connect the device's LAN Ethernet port to a switch/router/hub using an UTP5 Ethernet cable (not cross cable).
- Connect any devices or additional V-6016 adapters to the PC Ethernet port using an UTP5 Ethernet cable (not cross cable).
- Connect any analogue devices (telephone/fax) to the FXS1 and FXS2 ports.
- Connect the power supply to the Power plug

This device is provided with a ground connection. Use the device only in a fully earthed electric system, with Residual Current Device (RCD) and relevant safety measures as prescribed by law. Please also make sure that the voltage complies with that required by the device. Contact technical support if in any doubts.

### 4.6 - LEDs

There are four LEDs mounted on the V-6016. They display the status of the resources connected to the device. The table below reports the colours associated to each resource status:

	Green	Off	Flashing green
<b>LAN</b>	Local network UP	Local network DOWN	Data flow
<b>PC</b>	Connection UP	Connection DOWN	Data flow
<b>FXS1</b>	Registered user	Inactive line	Active call
<b>FXS2</b>	Registered user	Unregistered user	Active call

## 5 - Basic operations

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### 5.1 - Manual configuration

It is possible to send commands to the V-6016 adapter by entering a sequence of keys on the keypad of the device connected to the adapter. The list of commands is reported in the table below:

Keys	Description
#***#	Restarts the adapter.
#*000#	Resets network configuration.
#*100#	Setup a static IP address (default address: 192.168.1.179.)
#*101#	Requests an IP address from the DHCP server.
#*111#	A recorded message will notify the adapter's IP address.
#50+IP#	Manual configuration of the adapter's IP address (with * as a separator). For example to configure 192.168.0.113 you will need to enter: #50192*168*0*113#
#51+IP#	Manual configuration of the Gateway's IP address (as above).
#52+IP#	Manual configuration of the primary DNS IP address (as above).
#53+NETMASK#	To setup the Sub-net mask.

As default, once connected to the network, the device requests a valid IP address to the DHCP server. It is possible to verify this IP address by typing #\*111#. In case the recorded message provides a null address (0.0.0.0) it means that the procedure has been unsuccessful. In this case you will first need to enter the command #\*100# (to allocate the standard IP address 102.168.1.179). On a web browser, you will then need to access the following web page to reconfigure the system: <http://192.168.1.179/>

## 6 - Configuration using the web interface

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It is possible to display the web interface by accessing the following web-page on a web browser: **[http://IP\\_ADDRESS/](http://IP_ADDRESS/)**

The IP address is the address of the V-6016 adapter. This address is generally allocated by the DHCP server. Alternatively, you need to associate a static IP address to the adapter.

Please consult section 5 to retrieve the IP address allocated to the device by the DHCP server or to assign the IP address manually.

In order to access the web interface you will need to enter a *username* and *password*. As default the V-6016 offers two levels of access of the web interface. The highest level will allow a complete configuration of the device.

	Username	Password
<b>High level access</b>	admin	admin
<b>Low level access</b>	guest	guest

Username and password can be easily changed if needed.

### 6.1 - Current status

In this status the system summarises the adapter's configuration settings and its internal status (network connection and server PBX interface). Extension number and registration status are also displayed for both ports.

<b>Connect Mode</b>	Determines whether the IP address was allocated by the DHCP server or it was configured manually (in the latter case the IP address will not change when the adapter is restarted).
<b>IP Address</b>	V-6016 adapter's IP address.
<b>MAC Address</b>	V-6016 adapter's physical address (MAC).
<b>Gateway</b>	Network gateway's IP address.

<b>SIP LINE 1</b>	It shows if the line was correctly registered (Registered) or not (Failed, followed by the error signalled by the PBX). It also shows the extension number associated to that line. <i>NB: Line 1 relates to port FXS1 and Line 2 to port FXS2.</i>
<b>SIP LINE 2</b>	

LAN		
Connect Mode	Static	
IP Address	192.168.0.230	
MAC Address	00:09:45:60:b4:b9	
Gateway	192.168.0.254	

  

SIP Phone Number		
SIP LINE 1	1001	Registered
SIP LINE 2	1002	Faild with 404

## 6.2 - Network Setting

This section displays LAN connection settings. The first table shows the actual settings whilst the second table enables the user to choose the connection: **Static** or **DHCP**.

LAN Configuration	
IP Address	192.168.0.230
Current Netmask	255.255.255.0
MAC Address	00:09:45:60:b4:b9
Current Gateway	192.168.0.254

  

Connection Setting	
<input type="radio"/> Static	<input checked="" type="radio"/> DHCP

A new form is displayed when **Static** is selected.

<b>Static IP Address</b>	IP address to assign to the adapter.
<b>Netmask</b>	Subnet Mask.
<b>Gateway</b>	Gateway IP address.
<b>DNS Domain</b>	DNS domain.
<b>Primary DNS</b>	Primary DNS IP address
<b>Alter DNS</b>	Alternative DNS IP address

## 6.3 - SIP Setting

Two similar SIP setting sections enable the user to setup both lines of the V-6016 adapter. In the Basic Setting section you will need to enter the same parameters defined at the server PBX for the user connected to the relevant line.

Basic Setting	
Regist status	<b>Registered</b>
Server Address	192.168.0.209
Server Port	5060
Account/User Name	utente1001
Password	*****
Phone Number	1001
Domain Realm	192.168.0.209
Enable Register	<input checked="" type="checkbox"/>

<b>Regist status</b>	Registration status (at the server PBX).
<b>Server Address</b>	IP address of the server PBX connected to the adapter.
<b>Server Port</b>	Allocated port number on the server PBX for SIP traffic (default is 5060).
<b>Acc./User Name</b>	User name for server authentication.
<b>Password</b>	Password for server authentication .
<b>Phone Number</b>	Extension number for that line.
<b>Domain Realm</b>	Server PBX domain.
<b>Enable Register</b>	When enabled, the V-6016 adapter will regularly register at the PBX.

Reported below are the **Advanced SIP settings**. We recommend not changing the default settings unless you are very familiar with the SIP protocol.

Advanced SIP Setting	
Register Expire Time	60 seconds
Detect Interval Time	60 seconds
User Agent	VOIspeed adapter 1
DTMF Mode	DTMF_RFC2833
RTP Initial Port	10000
<input type="checkbox"/> Enable PRACK	<input type="checkbox"/> Enable Via rport

<b>Register Expire Time</b>	Time interval (in seconds) between two registrations. This setting is only used when <b>Enable Register</b> is activated.
<b>Detect Interval Time</b>	The adapter regularly checks whether the server is active or not. This setting determines the delay between two detections.
<b>User Agent</b>	Adapter's name as recognised by the server PBX.
<b>DTMF Mode</b>	DTMF mode of operation during an active call.
<b>RTP Initial Port</b>	Port used by the adapter to negotiate the initial

	audio setting.
<b>Enable PRACK</b>	Enables SIP signalling for message acknowledgment.
<b>Enable Via rport</b>	When enabled, it signals the server to send information packets on the same port where messages are received. Useful when there is a NAT server between the PBX and the adapter.

**Call Service Setting** configures specific services on the line.

<b>Hotline</b>	In this setting you can specify the number called when the handset is lifted. By entering the <b>Line Busy</b> number, a line-free dial tone will be heard by lifting the handset.
<b>No Disturb</b>	Incoming calls are rejected.
<b>Ban Outgoing</b>	No outgoing calls are allowed.
<b>Accept Any Call</b>	All incoming calls are accepted. This setting is used when the PBX routes to the adapter a call initially directed to an extension other than that assigned to the line in question.
<b>No Answer Time</b>	Ringing time (in seconds) after which the adapter rejects an incoming call.



**Call Service Setting**

Hotline

☐ No Disturb ☐ Ban Outgoing

☒ Accept Any Call

No Answer Time(seconds)

## 6.4 - Advanced settings

In advanced settings you will find a comprehensive list of settings to personalise the use of the adapters based on your requirements.



### 6.4.1 Digital Map

The digital map determines the adapter's behaviour when dealing with an incoming call. An analogue telephone usually transfers numbers on a line one digit at a time. As this is not possible using the SIP protocol, whole numbers need to be transferred. This means that it is required a procedure to determine when the user has finished entering digits on the keypad.

<input checked="" type="checkbox"/> End with “#”	
<input type="checkbox"/> Fixed Length	11
<input checked="" type="checkbox"/> Time out	5 (3–30)

There are three ways to determine when a number is complete (selected by a checkbox):

<b>End with “#”</b>	The adapter starts a call to the dialled number as soon as the “#” (ash) key is pressed on the keypad.
<b>Fixed Length</b>	The adapter starts a call after a number of keys have been dialled. This number is entered in the adjacent textbox.
<b>Time out</b>	The adapter starts a call after a predetermined delay following the last key being pressed. This delay (between 3 and 30 sec) is entered in the adjacent textbox.

*NB: no outgoing calls are allowed unless at least one of the options above is selected.*

In addition to these events, it is possible to define a set of rules to enable the adapter to recognise specific numbers (regardless of the events above occurring).

<b>Digital map table Set</b>	
<input type="text"/>	<input type="button" value="Add"/>
36 <input type="button" value="v"/>	<input type="button" value="Del"/>

In the textbox you need to enter the rule in question and then press ‘Add’ to save it. Using the syntax explained in the table below you can describe how the adapter recognises numbers.

<b>x</b>	It is any digit between 0 and 9.
<b>. (dot)</b>	It is any number of variable length. It must be used in conjunction with Tn (to setup the timeout following the last digit) or otherwise the call will never start.
<b>[ ]</b>	It is a digit within the predefined range. You can define this range using the syntax [min-max] or alternatively by listing the digits separated by commas. For example [1,5,9] means that only 1, 5 and 9 are allowed whereas [1-5] means that all numbers between 1 and 5 are allowed (namely 1,2,3,4 and 5).
<b>Tn</b>	It determines the delay of time after which a call is started following the last key being pressed. The value (n) is expressed in seconds. <i>NB: this value (Tn) must be placed at the end of the rule.</i>

Some examples:

- 365 By dialling 365 the adapter will start a call to this number without waiting any delay. This means that it will not be possible to make any calls to numbers starting with 365. It is therefore recommended to add a delay when specifying any rules similar to this (in this case of 2 sec): 365T2.
- [1-8]xxx Any four digit numbers between 1000 and 8999.
- 9xxxxxxx Any 8 digit numbers starting with 9.
- 30x.T4 Any 3 digit numbers starting with 30. It is also important to add a timeout at the end so that the adapter will start a call if no digits are entered within the next 4 seconds.

Digital map table	
	Rules:
	"365T2"
	"[1-8]xxx"
	"9xxxxxxx"
	"30x.T4"

All rules entered are displayed in the **Digital Map Table**.

To delete a rule you can simply select it from the drop down menu and press **Del**.

#### 6.4.2 DSP config

Here you can configure the advanced settings relating to the devices connected to either lines and the protocols used.

Phone Port Select	
Port 1 ▼	Load

Select first the port whose advanced settings you want to modify and then click **Load** (Port1 is FXS1 and Port2 is FXS2). Below are the advanced settings for each port:

<b>Coding Rule</b>	Audio Codec used: <ul style="list-style-type: none"><li>• g711Alaw64k</li><li>• g711Ulaw64k</li><li>• g729</li></ul>
<b>Input Volume</b>	Incoming audio volume level (sent to the device connected to the port).
<b>Output Volume</b>	Outgoing volume level (sent to the PBX).
<b>Fax Mode</b>	When a fax is connected to the port here you can define the standard used: <ul style="list-style-type: none"><li>• Bypass-A</li><li>• Bypass-U</li></ul>



	<ul style="list-style-type: none"> <li>Relay-T38</li> </ul> <p>If no fax is connected you can select Disable.</p>
<b>Fax TCF Mode</b>	<p>In case you have selected Relay-T38 in the setting above, here you can define how to use TCF. These are possible values:</p> <ul style="list-style-type: none"> <li>LocalTCF</li> <li>TrasferredTCF</li> </ul>
<b>CallerID Tx Mode</b>	It specifies the standard used for CallerID on incoming calls.
<b>Polarity Reversal</b>	This checkbox needs to be selected only if a POS device is connected to the port in question.
<b>Echo Cancellor Enable</b>	It enables echo cancellation on an analogue line. You should disable this option only if a FAX is connected to the port.

DSP Configuration	
Coding Rule	g711Alaw64k ▼
Input Volume	2 (1-3)
Output Volume	2 (1-3)
Fax Mode	Disable ▼
Fax TCF Mode	transferredTCF ▼
CallerID Tx Mode	ETSI-FSK ▼
Polarity Reversal	<input type="checkbox"/>
Echo Cancellor Enable	<input checked="" type="checkbox"/>

There are some additional DSP settings that do not relate to the individual ports but affect some main functionalities of the adapter.

Global DSP Configuration	
G729 Payload Length	10ms ▼
Signal Standard	United States ▼
Hook Flash Timer Min	50 ms
Hook Flash Timer Max	400 ms
DTMF Payload Type	101

<b>G729 Payload Length</b>	<p>When choosing the G729 codec, here you can select the payload length. Below are the possible values:</p> <ul style="list-style-type: none"> <li>10ms</li> <li>20ms</li> </ul>
<b>Signal Standard</b>	It determines the standard of analogue signalling. Possible values are:

	<ul style="list-style-type: none"> <li>• United States</li> <li>• China</li> </ul>
<b>Hook Flash Timer Min/Max</b>	It is the delay of time (between replacing and lifting the handset) that determines a 'Flash' event. This event places the active call on hold and allows the user to start a second call.
<b>DTMF Payload Type</b>	Identification code for DTMF tones in compliance with the RFC 2833 standard. It is recommended not to change it.

#### 6.4.3 Account config

Here it is possible to modify username and password to access the adapter's web interface.

To modify username or password simply click on 'Modify'.

#### 6.4.4 Time config

Here you can specify a SNTP server that the adapter can use to sync its internal clock.

In 'timeout' you should specify the sync time (in seconds) with the SNTP server. Alternatively, it is possible to enter the time manually:

Manual Timeset	
year	<input type="text"/>
months	<input type="text"/>
day	<input type="text"/>
hour	<input type="text"/>
minute	<input type="text"/>

## 6.5 - System manage

In this section are gathered all those functionalities useful to the administrator to configure the adapter. They are divided into categories that are easily accessible.

### 6.5.1 Web update

Using this function it is possible to upload a configuration file that was previously saved. As there are no controls on the file format you should take extra care in not uploading config files of other adapters.

Update Setting	
Select file	<input type="text"/> <input type="button" value="Sfoglia..."/> (*.*;*.txt;*.au) <input type="button" value="Update"/>

You can use this option to upload firmware updates provided by the manufacturer.

### 6.5.2 FTP Update

It is possible to use a FTP or TFTP server (connected to the same network) to update configuration files and firmware of the adapter. You simply need to fill in the fields below and specify the operation you would like the server to perform:

- **“Application update”** to update the adapter’s internal firmware.
- **“Config file export”** to export the adapter’s configuration file into a text file.
- **“Config file import”** to upload a new configuration file.

FTP Setting	
Server	<input type="text"/>
Username	<input type="text"/>
Password	<input type="text"/>
File name	<input type="text"/>
Type	Application update ▼
Protocol	FTP ▼
<input type="button" value="SAVE"/>	

### 6.5.3 Auto Update

Auto Update Setting	
Current Version	2.0001
Server Address	<input type="text" value="0.0.0.0"/>
Username	<input type="text" value="user"/>
Password	<input type="password" value="••••"/>
Config File Name	<input type="text"/>
Config Encrypt Key	<input type="text"/>
Protocol Type	FTP <input type="button" value="v"/>
Update Interval Time	<input type="text" value="1"/> Hour
Update Mode	Disable <input type="button" value="v"/>

It is possible to setup the adapter so that it will regularly check for updates by connecting to an external FTP or TFTP server. In **Update Mode** you can choose whether to enable or disable this option. You can otherwise configure the adapter to check for updates on a regular basis (in this case you need to enter the delay in hours in Update Interval Time) or only when the system restarts. The latest version is displayed in **Current Version**. Based on this version the adapter will decide whether to update to a new version or not.

### 6.5.4 Clear Config

By pressing 'Clear' the adapter will reset to its default settings.

Clear Configuration	
Press the "Clear" button to Clear the configuration files !	
<input type="button" value="Clear"/>	

### 6.5.5 Backup config

This function creates a backup copy of the configuration file. Here you simply need to right-click on the link and save the file.

Backup Config	
Save all Network and VoIP settings.	
<a href="#">Right Click here to Save as Config File (.txt)</a>	

### 6.5.6 Reboot

By pressing 'Reboot' the adapter will restart.

Reboot Phone	
Press the "Reboot" button to reboot Phone !	
<input type="button" value="Reboot"/>	