



VONAGE™
THE BROADBAND PHONE COMPANY®

Broadband Phone Start-Up Kit

- No Annual Contracts
- Money Back Guarantee
- Perfect for Home or Business
- Keep Your Current Number Where Available

Model: IP8100 series telephone

5.8
GHz
Digital Spread
Spectrum

Base Features Manual

Expandable up to 4 Handsets each with Caller ID and Handset Speakerphones

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Getting Started

Before you begin

1. Pre-register with Vonage Service by logging on to www.vonage.com.
2. Check and make sure you meet the system requirement below.
 - You must have a personal computer with the following applications and hardware:
 - Microsoft® Internet Explorer™ 5.5 or higher for Windows; or Microsoft® Internet Explorer™ 5.x or Apple® Safari™ 1.0 for Mac® OS 9 or higher
 - CD-ROM drive
 - 10/100 Base-T Ethernet Port
 - DSL or two-way Cable broadband Internet Service
 - Two-way broadband modem supporting a minimum of 90kbps uplink
 - Ethernet port on modem; USB-only modems are not supported
3. During installation you may be required to enter a username and password if you are a DSL user who is required to enter a user name and password (PPPoE) to access the Internet, and you may be required to enter a specific IP addresses if you have a static IP address. Before you begin, be sure to contact your Internet Service Provider to obtain this information.
4. Check for package contents (see [page 3](#) for a complete list) then follow the step-by-step installation directions (see [page 4](#)) to install and configure the IP8100 series telephone.

Note: you may download the latest copy of the IP8100 series telephone User Manual by accessing the Customer Support tab on www.vtech-phones.com

GPL License Information

Portions of the software associated with this product are open source, and fall within the scope of the GNU General Public License (GPL). Accordingly, those portions of code are available to the public, consistent with the requirements of the GPL, in either source code format or object code format, depending upon the nature of the code at issue. If you would like to exercise your right to receive the available code, please send a cashier's check, payable to VTech Communications, Inc., in the amount of \$10.00 (U.S.\$) to:

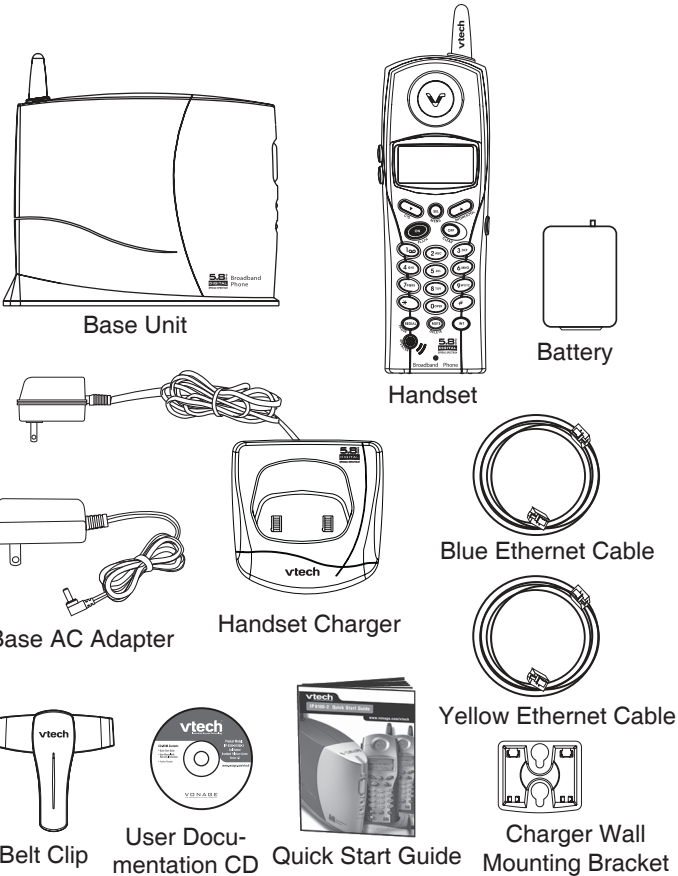
VTech Communications, Inc.,
9590 SW Gemini Drive, Suite 120
Beaverton OR 97008

ATTN: Information Technology Group / IP8100 GPL code request,
along with a written request for the available code. If your request does not fully comply with the foregoing requirements, VTech reserves the right to reject your request. Further, by requesting and receiving the available code, you release VTech, its affiliates, and its and their officers, directors, employees, and representatives("VTech Parties") from any liability or responsibility relating to such code, and you acknowledge that the VTech Parties make no representations with respect to the origin, accuracy, usability, or usefulness of such code, and the VTech Parties have no responsibility to you whatsoever concerning the code, including without limitation any responsibility to provide explanation, support, upgrade, or any communication whatsoever. Your review or use of the available code is at your sole risk and responsibility.

Package Contents

The IP8100 series Broadband telephone is an advanced Broadband VoIP cordless telephone set, capable of supporting up to four handsets. Your package contains:

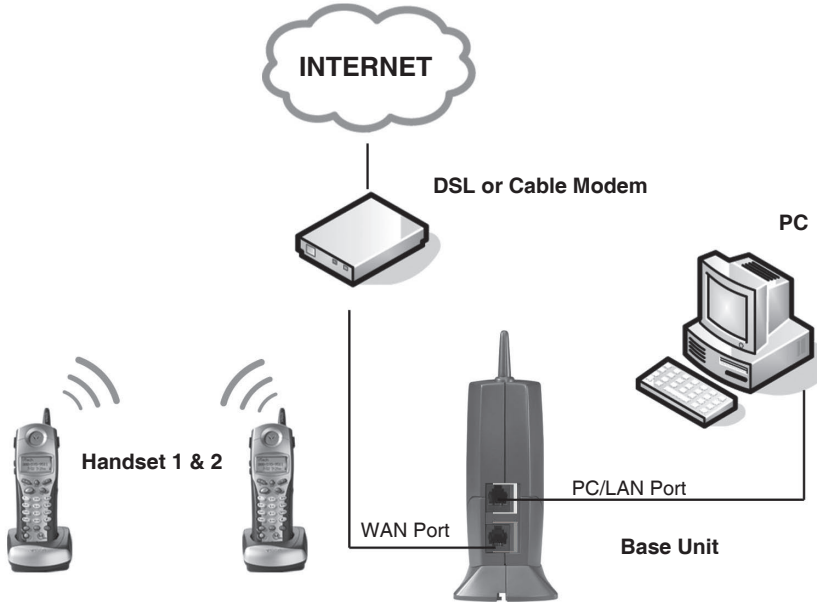
1. Base Unit
2. Handset(s)
3. Handset Charger(s)
4. Ethernet Cables
5. Base Power Adapter
6. Charger Wall Mounting Bracket(s)
7. Belt Clip(s)
8. User Documentation CD
9. Quick Start Guide
10. Battery(ies)



Your broadband telephone accommodates up to 4 handsets. You can add new handset, model IP811, by visiting www.vtechphones.com or call VTech Communications Inc. at 800-595-9511.

Installation Directions

Installation Without A Router



NOTE: The IP8100 series telephone is expandable up to a total of 4 handsets. Uses model IP811 (sold separately)

Warning: Do not route the Ethernet cable to outdoors, and ensure that you are using a safety approved DSL or Cable modem with proper electrical isolation.

STEP 1

Unplug the power cord from your Cable or DSL modem (the device your ISP provided which provides high-speed Internet). Make sure that you turn your computer off and that you do NOT plug in your IP8100 series broadband telephone until instructed to do so.

Helpful Hint: The modem should be powered off for at least 10 minutes. If it is turned off for a shorter period of time, it may remember old information that will prevent it from working properly.

STEP 2

Disconnect all cables between your Cable or DSL modem and your computer.

Installation Directions

STEP 3

Connect one end of the yellow Ethernet cable to the yellow port, labeled “PC/LAN,” located on the back of the base unit and connect the other end of the yellow cable to the Ethernet port of your computer.

STEP 4

Connect one end of the blue Ethernet cable to the blue port, labeled “WAN,” located on the back of the base unit and connect the other end of the blue cable to the Ethernet port on your cable or DSL modem.

STEP 5

Reconnect power cord to the modem then turn the modem on. Please wait until all lights on the modem stop blinking.

Helpful Hint: This should take a few minutes, but may take as long as 10 minutes.

STEP 6

Plug the power cord into the power port located on the bottom of your IP8100 series telephone and the other end into the electrical outlet. This turns the IP 8100 series broadband telephone on.

Helpful Hint: Do NOT interrupt this registration process by unplugging the power or by using the handsets until the **READY** indicator light on the front of base has gone from flashing yellow to a steady green.

Helpful Hint: Use only the power cord provided in this package; using an older power cord can damage the broadband telephone.

STEP 7

Turn your computer on, and check your computer to see if your Internet is working, try to visit any website. If your Internet is working, please proceed to STEP 10. If not, please proceed to STEP 8.

STEP 8:

Cable Users

If you receive Internet access through a Cable modem, you may need to register the IP8100 series phone with your ISP. Please contact them to update your information; you will likely need your WAN MAC address, which is located on the bottom of the base. Once your ISP has updated your account, proceed to step 9.

-- OR --

DSL Users

If you have DSL and are required to enter a user name and password (PPPoE) when accessing the Internet, you may be required to authenticate the IP8100 series telephone.

Installation Directions



- A. Open a web browser such as Microsoft® Internet Explorer using the computer connected through your IP8100 Ethernet port. In the address of location field, type <http://192.168.15.1> and press **ENTER**. This displays the login screen. Enter the default password 'VTech' and click on login.
- B. On the **Setup Wizard** screen, click **Run Wizard** to start the set-up.
- C. Follow Wizard screens to complete the setup.

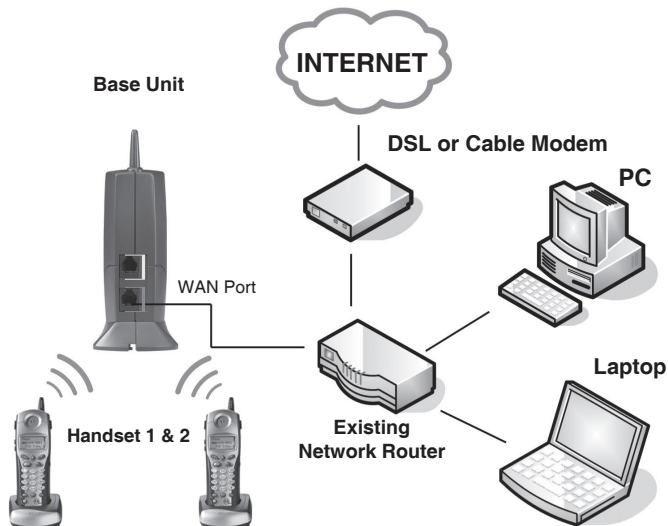
STEP 9:

Check for dial tone by pressing the **ON** button on your handset. If you do not hear a dial tone, please refer to the **Troubleshooting** section of the user manual.

Congratulations! Even if you are transferring your number, you are ready to start taking advantage of the great savings and superior quality of Vonage right now! Please call 800-342-1791 to setup your voicemail service and to learn about other free Vonage features included with every Vonage calling plan.

Installation Directions

Installation With A Router



NOTE: The IP8100 series telephone is expandable up to a total of 4 handsets. Uses model IP811 (sold separately)

Warning: Do not route the Ethernet cable to outdoors, and ensure that you are using a safety approved DSL or Cable modem with proper electrical isolation.

STEP 1:

Using the blue Ethernet cable provided, connect one end into the blue port, labeled "WAN," located on the back of the IP8100 series broadband telephone base unit and connect the other end into an available LAN port on your router. If you have a wireless router, place the base unit at least three feet (36 inches) away from your router to avoid interference.

Helpful Hint: If all the Ethernet ports on your existing router are full, disconnect one of the attached devices from the existing router. Plug the blue Ethernet cable into the now free port on your router. Connect the device you just unplugged from your router to the yellow "PC/LAN" port located on the back of IP8100 series broadband telephone base unit.

Installation Directions

STEP 2:

Plug the power cord into the power port located on the bottom of your base unit and the other end into the electrical outlet. This turns the broadband telephone on.

Helpful Hint: Do NOT interrupt this registration process by unplugging the power or by using the handsets until the **READY** indicator light on the front of base has gone from flashing yellow to a steady green.

Helpful Hint: Use only the power cord provided in this package; using any other power cord could damage the broadband phone.

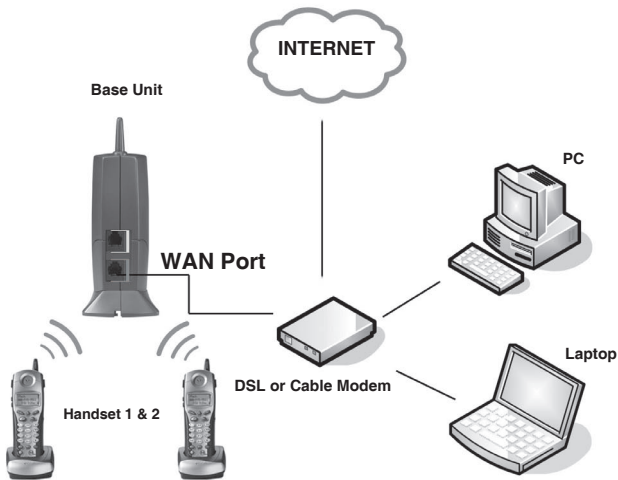
STEP 3:

Check for dial tone by pressing the **ON** button on your handset. If you do not hear a dial tone, please refer to the Troubleshooting section of the user manual.

Congratulations! Even if you are transferring your number, you are ready to start taking advantage of the great savings and superior quality of Vonage right now! Please call 800-342-1791 to setup your voicemail service and to learn about other free Vonage features included with every Vonage calling plan.

Installation Directions

Installatiozn With A Modem Router



NOTE: The IP8100 series telephone is expandable up to a total of 4 handsets. Uses model IP811 (sold separately)

Warning: Do not route the Ethernet cable to outdoors, and ensure that you are using a safety approved DSL or Cable modem with proper electrical isolation.

STEP 1:

Using the blue Ethernet cable provided, connect one end into the blue port, labeled "WAN," located on the back of the IP8100 series broadband telephone base unit and connect the other end into an available LAN port on your router. If you have a wireless modem router, place the base unit at least 3 feet away from your router to avoid interference.

Helpful Hint: If all the Ethernet ports on your existing router are full, disconnect one of the attached devices from the existing router. Plug the blue Ethernet cable into the now free port on your router. Connect the device you just unplugged from your router to the yellow "PC/LAN" port located on the back of IP8100 series broadband telephone base unit.

STEP 2:

Plug the power cord into the power port located on the bottom of your base unit and the other end into the electrical outlet. This turns the IP8100 series broadband telephone on.

Installation Directions

Helpful Hint: Do NOT interrupt this registration process by unplugging the power or by using the handsets until the **READY** indicator light on the front of the base has gone from flashing yellow to a steady green.

Helpful Hint: Use only the power cord provided in this package; using an older power cord can damage the broadband phone.

STEP 3:

Check for dial tone by pressing the **ON** button on your handset. If you do not hear a dial tone, please refer to the Troubleshooting section of the user manual.

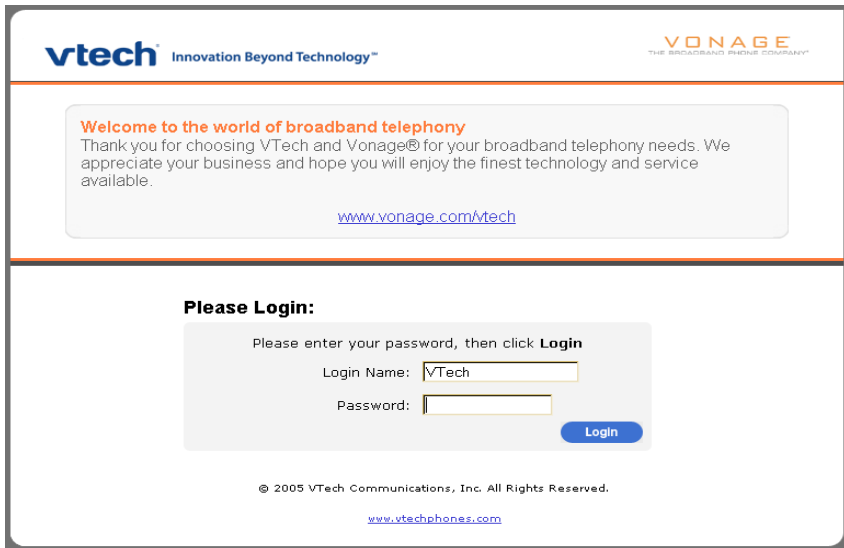
Congratulations! Even if you are transferring your number, you are ready to start taking advantage of the great savings and superior quality of Vonage right now! Please call 800-342-1791 to setup your voicemail service and to learn about other free Vonage features included with every Vonage calling plan.

The Setup Wizard

The Setup Wizard helps setup your system. Open a web browser such as Microsoft® Internet Explorer™ using the computer connected to the IP8100 series telephone's **PC/LAN** port, then follow the steps below.

Note: The screens you will see are stored in the IP8100 series telephone; they are not web site pages. During setup, ignore alerts that prompt you to reconnect to the Internet.

1. In the address bar, type <http://192.168.15.1> (do NOT type www).
2. Press the Enter key to display the login screen.



The screenshot shows a web browser window with the Vtech logo and tagline "Innovation Beyond Technology™" on the left and the Vonage logo and tagline "THE BROADBAND PHONE COMPANY™" on the right. Below the logos is a welcome message: "Welcome to the world of broadband telephony" followed by a thank-you note and a link to www.vonage.com/vtech. Below this is a "Please Login:" section with a prompt "Please enter your password, then click Login". It contains two input fields: "Login Name:" with "VTech" entered and "Password:" which is empty. A blue "Login" button is to the right of the password field. At the bottom, there is a copyright notice "© 2005 VTech Communications, Inc. All Rights Reserved." and a link to www.vtechphones.com.

The Setup Wizard

3. Enter the default password 'VTech' to display the initial Wizard screen.

The screenshot shows the VTech VONAGE Setup Wizard interface. At the top left is the VTech logo with the tagline "Innovation Beyond Technology™". At the top right is the VONAGE logo with the tagline "THE BROADBAND PHONE COMPANY™". Below the logos are navigation tabs: "Basic" (highlighted in green), "Advanced", "Admin", "Status", and "Help". On the left side, there is a sidebar menu with three items: "WIZARD" (highlighted with a blue arrow), "ISP CONNECTION", and "LOGOUT". The main content area has a green header bar with the word "Wizard" in white. Below this, the text "Setup Wizard:" is displayed in red, followed by a "Help" link with a question mark icon. The main text reads: "The setup wizard will help you to configure the Broadband Telephone to connect to your ISP (Internet Service Provider). Please follow the setup wizard step-by-step to configure the Broadband Telephone." A blue "Run Wizard" button is located at the bottom right of this text block. At the bottom of the page, there is a copyright notice: "© 2005 VTech Communications, Inc. All Rights Reserved." and a link to "www.vtechphones.com".

4. Click the **Run Wizard** button to display the Internet Connection Type screen.

Internet Connection Type

Type (WAN)

At this screen you must choose an Internet connection type (you will be allowed to choose only one). If you are not sure which to choose, ask your Internet Service Provider. After you make a selection, click **Next** to display the setup screen for the option you've chosen.

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Basic Advanced Admin Status Help

WIZARD
ISP CONNECTION
LOGOUT

Wizard

Internet Connection Type (WAN): ? Help

Click a button to indicate your Internet connection type. Contact your ISP if you are not sure. Click **Next** to continue.

<input checked="" type="radio"/> Dynamic IP Address	Most cable users	Your ISP assigns your IP address automatically.
<input type="radio"/> PPPoE	Most DSL users	Your ISP uses a logon procedure. The IP may be static or dynamic.
<input type="radio"/> Static IP Address	Your ISP assigns a permanent IP address which you must enter.	

Next
Exit

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Dynamic IP Address

Choose this setting if you don't have to enter a username and password to access the Internet. Continue on [page 14](#).

PPPoE

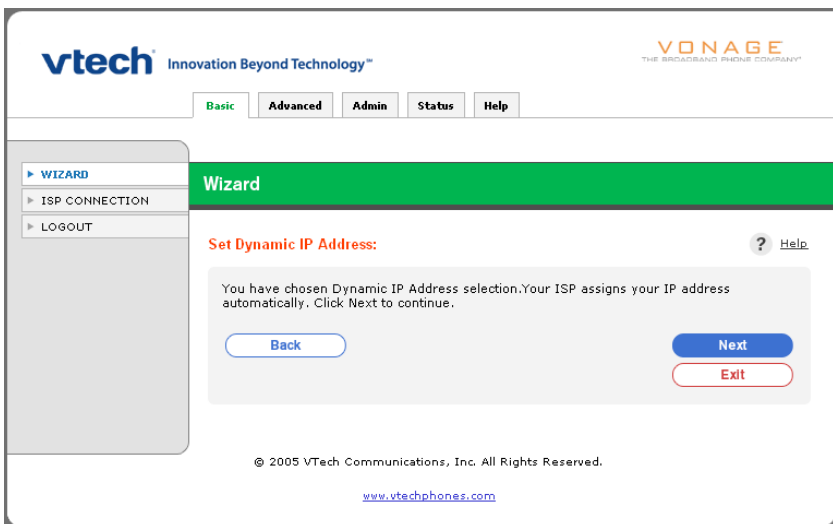
Choose this setting if you have DSL and are required to enter a username and password to access the Internet. Continue on [page 15](#).

Static IP

This setting is rarely required. Contact your ISP to confirm your IP address before choosing this option. Continue on [page 16](#).

Dynamic IP Address Screen

The following screen appears if you select Dynamic IP Address as your Internet connection type.



Click **Next** to continue or click **Back** to return to the previous screen. Clicking **Exit** takes you back to the initial wizard screen without saving any changes.

PPPoE Screen

The following screen appears if you select PPPoE as your Internet connection type.

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Basic Advanced Admin Status Help

WIZARD

ISP CONNECTION

LOGOUT

Wizard

Set PPPoE: ? Help

Set PPPoE Name and Password. Click Next to continue.

ISP User Name:

Password:

Re-Enter Password:

Back Next Exit

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Enter the username and password (provided by your Internet Service Provider) that you use when accessing the Internet. When finished, click **Next** to continue or click **Back** to return to the previous screen. Clicking **Exit** takes you back to the initial wizard screen without saving any changes.

Note: you may need to append the ISP's domain suffix to the username, i.e., `username@verizon.net`.

Set Static IP Address Screen

The following screen appears if you select Static IP Address as your Internet connection type.

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Basic Advanced Admin Status Help

▶ WIZARD
▶ ISP CONNECTION
▶ LOGOUT

Wizard

Set Static IP Address: ? Help

Enter your ISP provided static IP information.

WAN IP Address:

WAN Subnet Mask:

WAN Gateway Address:

Primary DNS Address:

Secondary DNS Address: (may be required)

Back Next Exit

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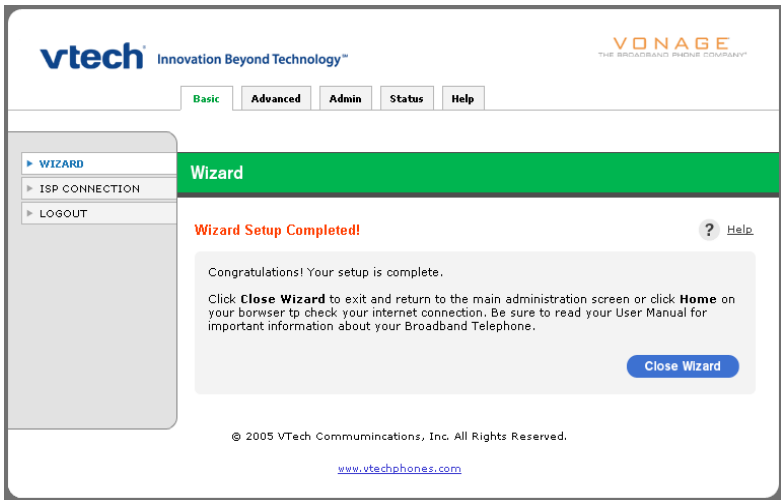
Delete anything that appears in these fields when the screen is displayed, then enter the WAN and DNS addresses provided by your ISP. Click **Next** to continue or click **Back** to return to the previous screen. Clicking **Exit** takes you back to the initial wizard screen without saving any changes.

Setup Completed Screen

The screenshot shows the Vtech Vonage Setup Wizard interface. At the top left is the Vtech logo with the tagline "Innovation Beyond Technology™". At the top right is the Vonage logo with the tagline "THE BROADBAND PHONE COMPANY™". Below the logos are navigation tabs: "Basic" (highlighted), "Advanced", "Admin", "Status", and "Help". On the left side, there is a sidebar menu with "WIZARD" (highlighted), "ISP CONNECTION", and "LOGOUT". The main content area has a green header with the word "Wizard". Below the header, the title "Save Settings?" is displayed in red, with a "? Help" link to its right. The main text reads: "Click **Back** if you want to review or change any settings. Or click **Exit** to stop now without saving any changes." and "When your settings are correct, click **Save Settings**. This will complete the setup and display a confirmation screen." At the bottom of the main content area, there are three buttons: "Back" (blue), "Save Settings" (blue), and "Exit" (red). At the very bottom of the page, there is a copyright notice: "© 2005 VTech Communications, Inc. All Rights Reserved." and the website URL "www.vtechphones.com".

Click Save Setting for the changes to take effect or click Back to return to the previous screen. Clicking Exit takes you back to the initial wizard screen without saving any changes.

Setup Completed Screen



Click **Close Wizard** to return to the initial wizard screen.

Test your connections

Re-launch your web browser. Your designated home page should appear. If your home page does not appear, try the following:

- Reboot your computer.
- Turn off or unplug your modem for a few seconds, then turn it back on.
- If you still have no Internet access, please refer to the **Troubleshooting** section of this manual.

Menu Structure

Basic

- Wizard
- ISP Connection
- Logout

Advanced

- Virtual Server
- Filters
- DMZ
- Logout

Admin

- Settings
- DHCP
- Passwords
- Other
- Restore Settings
- Logout

Status

- Broadband Telephone Info
- Activity
- Traffic
- DHCP Client
- Logout

Help

- Basic
- Advanced
- Admin
- Status
- Glossary
- Logout

Basic Settings

Setup Wizard Screen

Click **Run Wizard** for a simple, step-by-step configuration of your IP8100 series telephone settings. It is usually not necessary to do this after initial setup is complete.

To re-run the Wizard to update settings, please see the **Setup Wizard** section on page 12.

ISP Connection Settings Screen

Use this screen to view or change the Internet connection type required by your Internet Service Providers. Please check with your Internet Service Provider for the required configuration settings.

ISP Connection Settings: Dynamic IP Address

This setting is usually required for use with cable modems. Choose this setting if you don't have to enter a username/password to access the Internet when you first turn on your computer. With this option, IP addresses are assigned by your ISP automatically.

Basic Settings

The screenshot shows the 'Basic Settings' page for a Vtech VONAGE device. The page title is 'ISP Connection'. There are navigation tabs for 'Basic', 'Advanced', 'Admin', 'Status', and 'Help'. A sidebar on the left contains links for 'WIZARD', 'ISP CONNECTION', and 'LOGOUT'. The main content area is titled 'ISP Connection Settings' and includes a 'Help' link. Below this, there is a table with three connection options: 'Dynamic IP Address', 'PPPoE', and 'Static IP Address'. The 'Static IP Address' option is selected. Below the table, there is a 'Static IP:' section with several input fields: 'IP Address' (0.0.0.0), 'Subnet Mask', 'ISP Gateway Address' (192.168.0.1), 'Primary DNS Address' (192.168.0.254), and 'Secondary DNS Address'. There are also buttons for 'Copy', 'Restore', 'Apply', and 'Cancel'. At the bottom, there is a copyright notice for Vtech Communications, Inc. and the website URL www.vtechphones.com.

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Basic Advanced Admin Status Help

WIZARD
ISP CONNECTION
LOGOUT

ISP Connection

ISP Connection Settings: ? Help

Click the button that indicates your connection type. Contact your ISP if you are not sure.

<input type="radio"/> Dynamic IP Address	Most cable users.	Your ISP assigns your IP address automatically.
<input type="radio"/> PPPoE	Most DSL users.	Your ISP uses a logon procedure. The IP may be static or dynamic.
<input checked="" type="radio"/> Static IP Address	Your ISP assigns a permanent IP address which you must enter.	

Static IP:

IP Address: (assigned by your ISP)

Subnet Mask:

ISP Gateway Address:

Primary DNS Address:

Secondary DNS Address: (may be required)

DHCP Client List:

MAC Address:

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- **MAC Address:** This defaults to the MAC (Media Access Control) address of the WAN port in the IP8100 series telephone. If your ISP has registered the MAC address of your computer, you can manually enter it here, or use the DHCP Client List to copy it.
- **DHCP Client List:** Lists MAC addresses of devices that have obtained a DHCP lease from the IP8100 series telephone. If your ISP has registered the MAC address of your computer, select that MAC address from the list, click Copy, then click Apply to save the page settings. Clicking Restore takes you back to the default MAC address value.

Basic Settings

ISP Connection Settings: PPPoE

PPPoE stands for Point to Point Protocol over Ethernet. This setting is often used by DSL service providers. Choose this setting if you are required to enter a username and password when accessing the Internet.

The screenshot shows the VONAGE router's web interface. At the top, there is a navigation bar with tabs for Basic, Advanced, Admin, Status, and Help. The 'Basic' tab is selected. On the left, a sidebar menu contains 'WIZARD', 'ISP CONNECTION', and 'LOGOUT'. The main content area is titled 'ISP Connection' and contains the following sections:

- ISP Connection Settings:** A heading with a help icon.
- Instructions:** "Click the button that indicates your connection type. Contact your ISP if you are not sure."
- Connection Type Selection Table:**

<input type="radio"/> Dynamic IP Address	Most cable users.	Your ISP assigns your IP address automatically.
<input checked="" type="radio"/> PPPoE	Most DSL users.	Your ISP uses a logon procedure. The IP may be static or dynamic.
<input type="radio"/> Static IP Address	Your ISP assigns a permanent IP address which you must enter.	
- PPPoE Configuration Form:**
 - User Name:
 - Password:
 - Retype Password:
 - Maximum Idle Time: Minutes
 - MTU:
 - DHCP Client List:
 - MAC Address:
 -
 -
 -

At the bottom of the page, there is a copyright notice: © 2005 VTech Communications, Inc. All Rights Reserved. and the website URL: www.vtechphones.com

Basic Settings

- **User Name:** Enter the user name required by your ISP when you connect to the Internet.
Note: you may need to append your ISP's domain suffix to the username, i.e., username@verizon.net.
- **Password:** Enter the password required by your ISP when you connect to the Internet.
- **Re-type Password:** Re-type the password entered.
- **Maximum Idle Time:** (Default 0) This field specifies the number of minutes of inactivity before your IP8100 series telephone terminates the PPPoE session. To avoid periodic disconnection from the Internet, leave this value set to zero.
To allow your computer to disconnect after a period of inactivity, enter the time in minutes. (For example, enter 10 to disconnect 10 minutes after you've stopped using the computer.)
- **MTU:** (Default 1492) Data sent over networks is divided into packets of a certain size. MTU (Maximum Transfer Unit) specifies the largest packet size allowed for transmission over a network. This value typically does not need to be changed. Do not change it unless advised to do so by your Internet Service Provider.
- **MAC Address:** This defaults to the MAC® (Media Access Control) address of the WAN port in the IP8100 series telephone. If your ISP has registered the MAC address of your computer, you can manually enter it here, or use the DHCP Client List to copy it.
- **DHCP Client List:** Lists all MAC addresses of computers that have obtained a DHCP lease from the IP8100 series telephone. If your ISP has registered the MAC address of your computer, select that MAC address from the list, click Copy, then click Apply to save the page settings. Clicking Restore takes you back to the default MAC address value.

Basic Settings

ISP Connection Settings: Static IP Address

This connection type is rarely required. Contact your ISP to confirm IP information before choosing this option.

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[Basic](#) [Advanced](#) [Admin](#) [Status](#) [Help](#)

WIZARD
ISP CONNECTION
LOGOUT

ISP Connection

ISP Connection Settings: [? Help](#)

Click the button that indicates your connection type. Contact your ISP if you are not sure.

<input type="radio"/> Dynamic IP Address	Most cable users.	Your ISP assigns your IP address automatically.
<input type="radio"/> PPPoE	Most DSL users.	Your ISP uses a logon procedure. The IP may be static or dynamic.
<input checked="" type="radio"/> Static IP Address	Your ISP assigns a permanent IP address which you must enter.	

Static IP:

IP Address: (assigned by your ISP)

Subnet Mask:

ISP Gateway Address:

Primary DNS Address:

Secondary DNS Address: (may be required)

DHCP Client List: [Copy](#)

MAC Address: [Restore](#) [Apply](#) [Cancel](#)

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Basic Settings

Note: When entering the numbers, remember that each number must be in the correct format (four sets of numbers separated by periods, with no spaces).

- **IP Address:** Enter the value assigned by your ISP.
- **Subnet Mask:** Enter the value assigned by your ISP.
- **ISP Gateway Address:** Enter the value assigned by your ISP.
- **Primary DNS Address:** Enter the value assigned by your ISP.
- **Secondary DNS Address:** Enter the value assigned by your ISP.
- **MAC Address:** This defaults to the MAC (Media Access Control) address of the WAN port in the IP8100 series telephone. If your ISP has registered the MAC address of your computer, you can manually enter it here, or use the DHCP Client List to copy it.
- **DHCP Client List:** Lists MAC addresses of devices that have obtained a DHCP lease from the IP8100 series telephone. If your ISP has registered the MAC address of your computer, select that MAC address from the list, click Copy, then click Apply to save the page settings. Clicking Restore takes you back to the default MAC address value.

Advanced Settings

These settings require advanced networking knowledge. Incorrectly changing these settings may interrupt your Internet or VoIP service. These settings affect devices connected to the PC/LAN port on your IP8100 series telephone.

Virtual Server

Virtual Server, also known as port forwarding, allows you to enable other Internet users access to services running on your local network (such as your web server or FTP server). The IP8100 series telephone will redirect the Internet user requests to the appropriate server within your local network based on the configured IP address and port number. To create a new virtual server, fill in the fields on the screen and click **Apply** to save the page settings. You may also use settings for commonly used services in the Virtual Server table at the bottom of the screen by clicking an **Edit** button.

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Basic **Advanced** Admin Status Help

VIRTUAL SERVER

FILTERS

DMZ

LOGOUT

Virtual Server

Virtual Server: [? Help](#)

Virtual servers allow Internet users from the WAN side of your router to access services running on LAN side. This is also called port forwarding. Fill in the fields below to create a virtual server which can be accessed from outside your network. You can repeat this process for as many services that are required.

Enabled: Yes No [Clear](#)

Name:

Destination IP:

Protocol Type:

Port Start - End: -

[Apply](#)

[Cancel](#)

Virtual Server Table:

Enabled	Name	Destination IP	Protocol / Port(s)
---------	------	----------------	--------------------

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Advanced Settings

- **Virtual Server:** (Default Off): Click **On** to enable or **Off** to disable. This indicates whether the virtual server is initially enabled or disabled when it is created or modified.
- **Name:** Enter a name for the virtual server you are setting up.
- **Destination IP:** Enter the private IP address of the computer that is hosting the service/application.
Note: It is recommended that Static IP is used as the ISP Connection Setting when Virtual Server is created.
- **Protocol Type:** Choose the type of protocol used to access your hosting service.
- **Port:** Enter a single port or a range of ports to forward to a computer on your local network. (Leave this field blank to deny access to all ports.)

Click **Apply** to save the page settings. Clicking **Cancel** aborts any changes you have made on the page.

Advanced Settings

Filters

Filters allow you to restrict or permit Internet access for computers on your local network. The filter type supported on your IP8100 series telephone is IP Filter.

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Basic **Advanced** Admin Status Help

▶ VIRTUAL SERVER
▶ **FILTERS**
▶ DMZ
▶ LOGOUT

Filters

Filters: ? Help

Filters allow you to control Internet access from computers in your local network. Fill in the fields below to create a filter that will identify a computer which will be denied access to Internet services. You can repeat this process to enter as many computers as needed.

Enabled: Yes No Clear

Name:

Source IP : (blank or 0.0.0.0 for deny all).

Destination IP : (blank or 0.0.0.0 for deny all).

Port: - (blank for deny all).

Protocol Type:

Apply Cancel

IP Filter Table:

Enabled	Name	Source IP - Destination IP	Protocol/Ports	

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IP Filters

An IP filter is used to deny any specific computer from accessing the Internet using the computer's IP address. You can deny access by to specific services by port numbers or by blocking all ports for the specific computer. To add a new filter, fill in the fields above and click **Apply** to save the page settings. You can block access to several of the most commonly used services by clicking an **Edit** button in the IP Filter table at the bottom of the screen. This will copy the proper settings into the IP Filter fields. You will only need to enter the IP address of the computer to be affected by the filter (you can find this number by displaying the DHCP screen under the Admin tab).

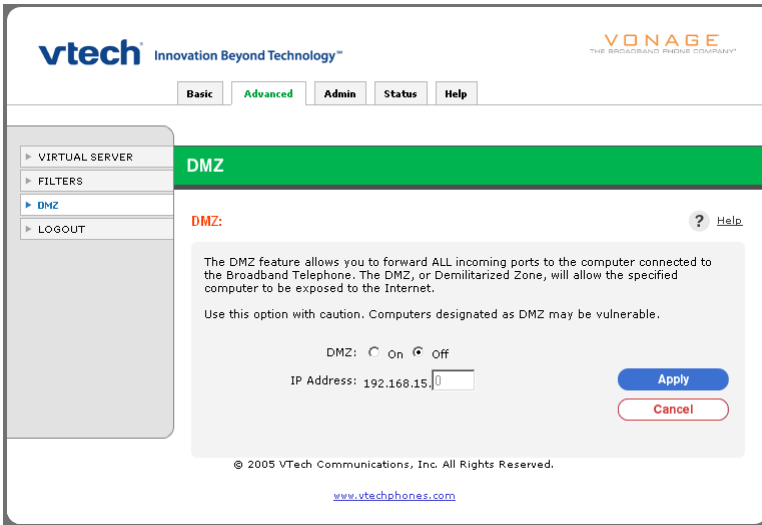
Advanced Settings

- **IP Filters:** (Default to On): Click **On** to enable or **Off** to disable. This indicates whether the IP filter is initially enabled or disabled when it is created or modified.
- **Name:** Enter a name the IP Filter you are setting up.
- **Destination IP:** Enter the private IP address that will be affected by the filter. If left blank, any computers on your LAN will be blocked the Internet access.
- **Port:** Enter a single port or a range of ports that will be denied Internet access. (Leave this field blank to deny access to all ports.)
- **Protocol Type:** Choose a protocol type to block.

When finished, click Apply to add the new filter which is then listed under the IP Filter Table.

DMZ

DMZ (Demilitarized Zone) is a feature that exposes a designated computer on your local network to the Internet. The computer designated as the DMZ host is not affected by other security measures. **Use this option with caution.** Computers designated as DMZ may be vulnerable to security risks.



- **DMZ:** (Default Off) Click **On** to allow unrestricted Internet access to designated computers.
- **IP Address:** Enter the IP address of a computer to be exposed to the Internet access. When you are finished, click **Apply** to save the page settings.

Click **Apply** to save the page settings. Clicking **Cancel** aborts any changes you have made on the page.

Admin Settings

These settings can help you protect against unauthorized access and manage your IP8100 series firmware.

Settings

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Basic **Admin** Advanced Status Help

SETTINGS
DHCP
PASSWORD
OTHER
RESTORE SETTINGS
LOGOUT

Settings

Local Network: ? Help

Below is the IP information for the Broadband Telephone

IP Address:

Subnet Mask:

Local Domain Name: (optional)

Deny WAN Ping:

This option controls how the Broadband Telephone handles ping requests from the Internet.

WAN Ping Deny Allow

VPN Pass-Through:

Pass-through should be turned on if you have problems connecting to a VPN.

PPTP On Off

IPSec On Off

Universal Plug and Play:

This option allows interoperability with other UPnP supported equipment.

Universal Plug and Play: On Off

Remote Management:

Click On, then enter the IP address of the remote managing computer. Using the default 0.0.0.0 allows any computer on the Internet to access the Broadband Telephone configuration when Remote Management is enabled.

On Off

IP Address:

Port:

Apply Changes:

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Admin Settings

Local Network

- **IP Address:** (Default 192.168.15.1.) The Internet Protocol (IP) address of your IP8100 series telephone is private and cannot be seen on the Internet. You can change this number if needed, but it is usually not necessary to do so.
- **Subnet Mask:** (Default 255.255.255.0.) The subnet mask (sub-network mask) is used to define a list of IP addresses allowed to a specified network segment (i.e., the 192.168.15.x subnet).
- **Local Domain Name (optional):** If desired, you can enter a name here to identify your network.

Deny WAN Ping: This option allows the IP8100 series telephone's public WAN IP to ignore ping commands sent by Internet users. Hackers may ping public WAN IP address to determine whether an IP address is vulnerable. When defaults to **Deny**, this option instructs your network to ignore Ping queries and to help protect against unauthorized access by others outside your network.

VPN Pass-Through: (Default On) The IP8100 series telephone supports VPN (Virtual Private Network) pass-through for both PPTP (Point-to-Point Tunneling Protocol) and IPSec (IP Security). Turning both of these On prevents your IP8100 series telephone from blocking access to another network you may wish to use.

Universal Plug and Play

- Default is On. This option makes the IP8100 series telephone compliant with the Universal Plug and Play standard, which allows compatibility with equipment made by different manufacturers.

Remote Web Management

Default is off. If turned on, this feature allows you to change IP8100 series telephone settings from a remote location (i.e., via the Internet).

- **IP Address:** Enter the Internet IP address of a computer that has access to the IP8100 series telephone. You can use 0.0.0.0 to allow all Internet IP addresses access to your network.
- **Port:** Enter the port number used for access to the IP8100 series telephone.
Example: http://x.x.x.x:8080 (Where x.x.x.x is the WAN IP address of the IP8100 series telephone and 8080 is the port used for the web management interface.)

Remote SSH Management

If turned on, this feature allows Vonage to remotely troubleshoot the IP8100 series telephone via a secure shell (SSH). This feature is protected with an Admin password granted to Vonage support staff only.

- **IP Address:** Enter the Internet IP address of the remote computer, which will be allowed access to remotely configure the IP8100.

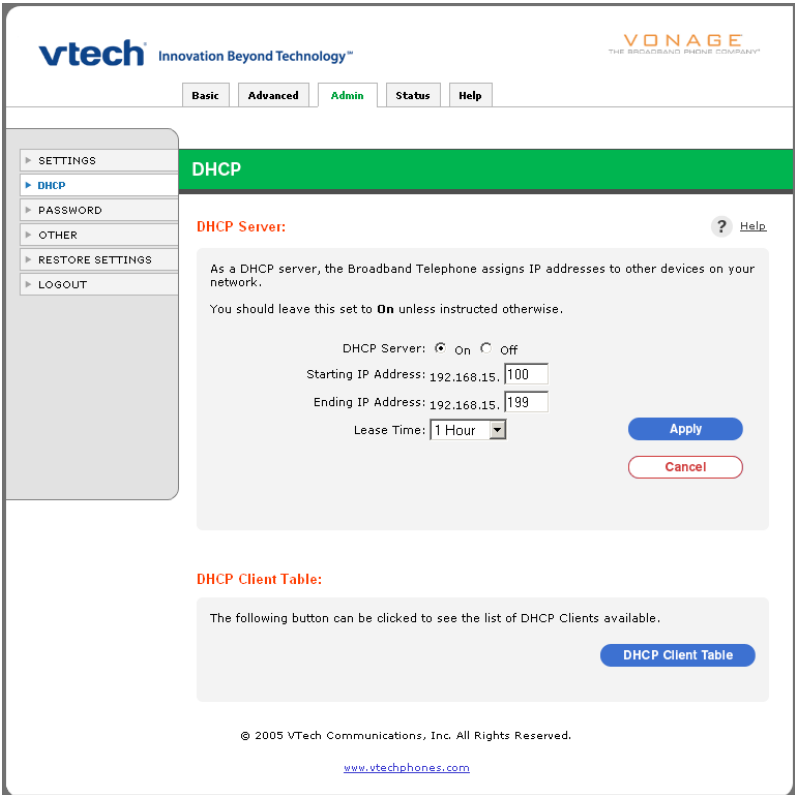
Click Apply to save the page settings. Clicking Cancel aborts any changes you have made on the page.

DHCP Screen

This screen allows you to view or change your local network IP settings. When any device on your network is turned on, it must be assigned an IP address to communicate with other devices on the network. DHCP (Dynamic Host Configuration Protocol) assigns these IP addresses to devices on your network.

Admin Settings

Leave DHCP set to **On** and be sure that you have selected **Obtain an IP address Automatically** in the Internet Protocol (TCP/IP) Properties dialog box on your client computers.



DHCP Server

- **DHCP Server:** Enable/disable DHCP.
 - **Starting IP address:** The starting IP address for the DHCP server's IP assignment.
 - **Ending IP address:** The ending IP address for the DHCP server's IP assignment.
 - **Lease Time:** The length of time for the LAN IP address lease.
- Click **Apply** to save the page settings. Clicking **Cancel** aborts any changes you have made on the page.

DHCP Client Table

- This is a list of devices assigned the IP address on your IP8100 series telephone LAN, showing the host name, IP address, MAC address and expired time for each.

Admin Settings

Passwords

Changing the default user password is not required by the IP8100 series telephone, but it can help prevent unauthorized tampering with the IP8100 series telephone's settings. Once a password is set, only those who know the password will be allowed to change or view settings.

Note: Write down the password and store it in a secure place. If you forget, you will not have access to any settings until you reset the IP8100 series telephone to factory default setting. For more information on factory default setting, please refer to **Admin / Restore Settings**.

The screenshot shows the Vtech Vonage Admin Settings interface. At the top, there is a navigation bar with tabs for Basic, Advanced, Admin (selected), Status, and Help. The left sidebar contains a menu with options: SETTINGS, DHCP, PASSWORD (selected), OTHER, RESTORE SETTINGS, and LOGOUT. The main content area is titled "Passwords" and features a "User Management" section. This section includes a help icon and a text box explaining the purpose of the password: "Create a password to prevent unauthorized tampering. This is highly recommended if Remote Management is turned on." Below this text are three input fields: "User Name:" (containing "VTech"), "Password:", and "Confirm Password:". At the bottom of the form, there are "Apply Changes:" instructions and two buttons: "Cancel" and "Apply". The footer contains the copyright notice "© 2005 VTech Communications, Inc. All Rights Reserved." and the website URL "www.vtechphones.com".

User Management

- Enter a new password to replace the default password **VTech**. Confirm by re-entering the new password in the field below.

Click **Apply** to save the page settings. Clicking **Cancel** aborts any changes you have made on the page.

Admin Settings

Other Options

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Basic Advanced **Admin** Status Help

SETTINGS
DHCP
PASSWORD
OTHER
RESTORE SETTINGS
LOGOUT

Other

Ping Test: ? Help

Enter an IP address, then click Ping to help troubleshoot IP connectivity problems on your network.

IP address : Ping

```
PING 192.168.15.1 (192.168.15.1): 64 data bytes
72 bytes from 192.168.15.1: icmp_seq=0 ttl=255
time=0.0 ms
72 bytes from 192.168.15.1: icmp_seq=1 ttl=255
time=0.0 ms
72 bytes from 192.168.15.1: icmp_seq=2 ttl=255
time=0.0 ms
--- 192.168.15.1 ping statistics ---
```

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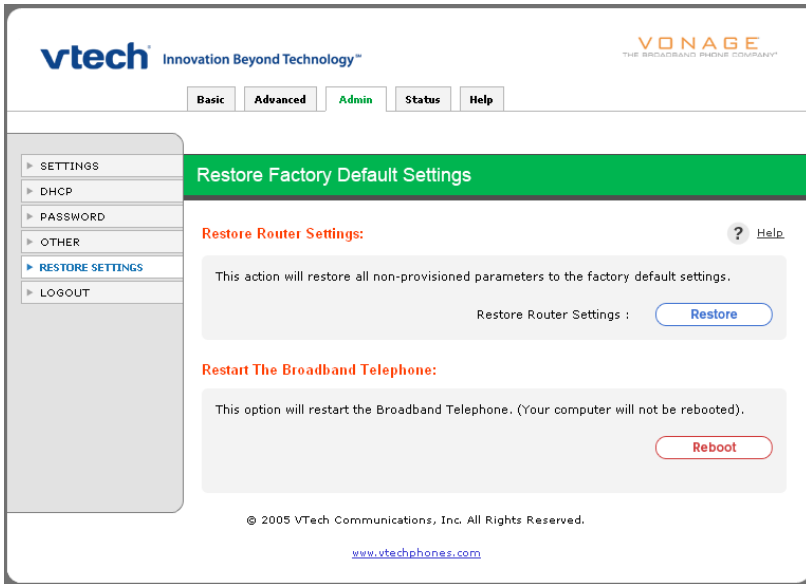
Ping Test

- A troubleshooting tool. This option allows you to test the IP connectivity of the devices on your local network. Enter the IP address of the device to be tested then click Ping. The ping results are then displayed in the window below the Ping button.

Admin Settings

Restore Settings

At this screen you can restore saved settings if the IP8100 series telephone becomes unstable and needs to be reset.



Restore Router Settings

- **Restore to Factory Default Settings:** Click **Restore** to reset the IP8100 series telephone to its original factory default settings. Use of this option will delete all changes you have made to all settings.

Restart The Broadband Telephone

- **Reboot:** This option saves all current settings, then shuts down and restarts the IP8100 series telephone firmware to reinitialize it. This serves the same purpose as quickly press and release the reset switch at the bottom of the base unit.

Beware that when the reset switch is pressed and held for more than 10 seconds and then released, the phone will restore to factory defaults. This includes clearing and resetting the password on the web configuration back to the VTech default password.

Note: Reboot or reset switch does not affect your base unit power, RF operation, or any of the telephone handset settings.

Status Screens

Status screens display reports of network activity and traffic statistics of your IP8100 series telephone.

Broadband Telephone Information

This screen displays the current status of the IP8100 series telephone.

The screenshot shows the Vtech web interface for the IP8100 series telephone. The top navigation bar includes tabs for Basic, Advanced, Admin, Status (selected), and Help. The left sidebar contains a menu with options: BROADBAND TELEPHONE INFO (selected), ACTIVITY, TRAFFIC, DHCP CLIENT, and LOGOUT. The main content area is titled "Broadband Telephone Info" and is divided into two sections:

- Broadband Telephone (LAN) Information:** This section displays the current firmware version number and the status of Local Area Network connections. It lists the following details:
 - Firmware Version: 11.1.0-r050718
 - Release Number: 4.12.1-r000001
 - Bootloader Version: 1.3.3.11 A
 - MAC Address: 00:11:A0:01:0A:37
 - IP Address: 192.168.15.1
 - Subnet Mask: 255.255.255.0
 - DHCP Server: Running
- Internet Connection (WAN) Information:** This section displays the status of Wide Area Network connections. It lists the following details:
 - MAC Address: 00:11:A0:01:0A:36
 - Connection: Connected
 - IP Address: 216.113.204.132
 - Subnet Mask: NA
 - Default Gateway: NA
 - DNS: NA

At the bottom of the WAN section, there are "Connect" and "Disconnect" buttons. The footer of the page includes the copyright notice: © 2005 Vtech Communications, Inc. All Rights Reserved. and the website URL: www.vtechphones.com.

Broadband Telephone (LAN) Information

Displays the IP8100 series telephone's current firmware version. The IP8100 series telephone auto-provisions and upgrades to the latest versions non-intrusively and when available.

Also displays the status of your Local Area Network connections (MAC Address of the Ethernet LAN connection, IP Address, Subnet Mask, and DHCP server setting).

Internet Connection (WAN) Information

Displays the status of your Wide Area Network connections (MAC Address of the Ethernet WAN connection, IP Address, Subnet Mask, Default Gateway, and DNS (Domain Name Server)).

Status Screens

- If your ISP connection type is **Dynamic**, buttons at the bottom of the screen are labeled as **DHCP Renew** and **DHCP Release**. The buttons allow you to release or renew the IP Address assigned by your Internet Service Provider.
- If your ISP connection type is **PPPoE**, buttons at the bottom of the screen are labeled as **Connect** and **Disconnect**. The buttons allow you to reset the connection to your Internet Service Provider.
- If your ISP connection type is **Static IP**, no button options are at the bottom of the screen.

Activity Logs

This screen displays a record of the most recent network events. Each time the IP8100 series telephone is reset or turned off, all entries are deleted.

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Basic Advanced Admin **Status** Help

BROADBAND TELEPHONE INFO

▶ ACTIVITY

▶ TRAFFIC

▶ DHCP CLIENT

▶ LOGOUT

Activity

System Log: ? Help

The system log keeps track of events and activities occurring on the Broadband Telephone.

```
Networking up
Ethernet-WAN: protocol type=0x608.
Ethernet-WAN: Routed Protocol.
```

Refresh

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Status Screens

Traffic Statistics

This screen displays a summary of the data sent and received by your Local Area Network and Wide Area Network.

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Basic Advanced Admin Status Help

BROADBAND TELEPHONE INFO
ACTIVITY
▶ **TRAFFIC**
DHCP CLIENT
LOGOUT

Traffic

Traffic Statistics: ? Help

This screen displays a summary of traffic handled by the Broadband Telephone (Volume of data sent or received by your Local Area Network and Wide Area Network).

Refresh

	Transmit	Receive
WAN	4329 Frames	4389 Frames
LAN	1362 Frames	1404 Frames

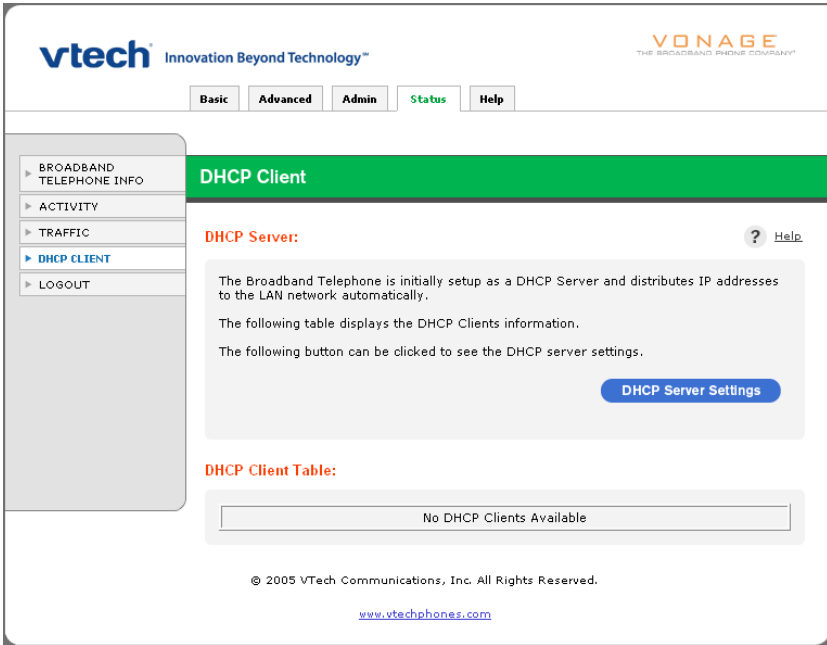
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- **Refresh:** Click to update the screen and see the most recent traffic statistics.

Status Screens

DHCP Client

This screen displays a list of IP addresses distributed to your local LAN network by the IP8100 series telephone.



DHCP Server

Click **DHCP Server Settings** takes you back to the DHCP screen under Admin. You may view or change your local network IP settings there.

DHCP Client Table

This is a list of devices assigned the IP address on your IP8100 series telephone, showing the host name, IP address, MAC address and expired time for each.

Help

The **Help** menu provides on-line help to IP8100 series telephone web-based features. Click on the available underlined topic takes you to its detailed help page.

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Basic Advanced Admin Status **Help**

▶ BASIC
▶ ADVANCED
▶ ADMIN
▶ STATUS
▶ GLOSSARY
▶ LOGOUT

Help Menu

Help Menu:

Basic

- [Wizard](#)
- [ISP Connection](#)

Advanced

- [Virtual Server](#)
- [Filters](#)
- [DMZ](#)
- [Routing](#)

Admin

- [Settings](#)
- [DHCP](#)
- [Passwords](#)
- [Other](#)

Status

- [Broadband Telephone Info](#)
- [Activity](#)
- [Traffic](#)
- [DHCP Client](#)

[Glossary](#)

[Back](#)

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Glossary

Authentication

Authentication refers to the verification of a transmitted message's integrity.

Broadband

Usually refers to Internet connections that provide faster data transfer rates than standard dial-up. Cable Internet and DSL are examples of broadband.

DHCP Server

DHCP (Dynamic Host Configuration Protocol) server is a server running the DHCP protocol to automatically assign IP addresses to client stations on a TCP/IP network. Using DHCP eliminates the need to manually assign IP addresses to each device on your IP8100 series telephone.

DHCP Client

The DHCP client is a device that obtained a DHCP lease from a DHCP server.

DMZ

DMZ (Demilitarized Zone) is a part of a network that is located between a secure LAN and an insecure WAN. DMZs provide a way for some clients to have unrestricted access to the Internet.

DNS

DNS stands for Domain Name System. DNS converts domain names to the IP addresses that all machines on the Internet have. It translates from name to address and from address to name.

Domain Name

The domain name is the readable version of an Internet site address. A typical domain name has the form *www.somedomainname.com* or *www.somedomainname.org*, etc.

Filter

Filters define how specific data is transmitted or received from the LAN port to the WAN port. For example, the IP8100 series telephone can filter specific LAN IP addresses from accessing certain services on the Internet.

Firewall

Firewalls are used to keep networks secure by preventing unauthorized Internet users from accessing services on your local network. The firewall on the IP8100 series telephone can be configured to allow Internet users to access certain services on your LAN using Virtual Servers and the DMZ Host.

Glossary

Firmware

Firmware refers to the operating code or program that tells the IP8100 series telephone what to do and how to do it.

Host Name

The name given to a computer or client station that acts as a source for information on the network.

HTTP

HTTP (Hyper Text Transfer Protocol) is the communications protocol used to connect to servers on the World Wide Web. HTTP establishes a connection with a web server and transmits HTML pages to client browser (for example Windows® IE). HTTP addresses all begin with the prefix http:// (for example, http://www.somedomainname.com).

IP

IP (Internet Protocol) is the protocol in the TCP/IP communications protocol suite that contains a network address and allows messages to be routed to a different network or subnet. However, IP does not ensure delivery of a complete message; TCP provides the function of ensuring delivery.

IP Address

The IP (Internet Protocol) address refers to the address of a computer attached to a TCP/IP network. Every client and server station must have a unique IP address. Clients are assigned either a permanent address or have one dynamically assigned to them via DHCP. IP addresses are written as four sets of numbers separated by periods (for example, 192.168.15.1).

ISP

An ISP (Internet Service Provider) is an organization providing Internet access service via modems, ISDN (Integrated Services Digital Network), private lines or other means.

LAN

LANs (Local Area Networks) are networks that serve users within specific geographical areas, such as your home or in a company building. LANs consist of a group of computers and related devices that share a common communication link. A LAN allows you to share data and resources among the devices on the LAN.

MAC Address

A MAC address is a unique serial number for hardware adapters, giving the adapter a unique identification.

Glossary

MTU

MTU (Maximum Transmission/Transfer Unit) is the largest packet size that can be sent over a network. Messages larger than the MTU are divided into smaller packets.

NAT

NAT (Network Address Translation — also known as IP masquerading) enables a LAN to present itself to the Internet with one address. NAT converts the address of each LAN node into one IP address for the Internet (and vice versa). NAT also provides a certain amount of security by acting as a firewall by keeping individual IP addresses hidden from the WAN.

Ping

Ping (Packet Internet Groper) is a utility used to find out if a particular IP address is presently online.

Port

Ports are the physical and/or logical communications pathways in and out of computers and network devices (routers and switches). Most PCs have serial and parallel ports, which are external sockets for connecting devices such as printers, modems, and mice. All network adapters also use ports to connect to the LAN. Finally, applications that communicate over the Internet also have ports; these are the endpoints of the application and are given a specific port number.

PPPoE

PPPoE (Point-to-Point Protocol Over Ethernet) is a protocol used to communicate between two computers using a serial interface, such as dialup Internet connections, over an Ethernet link.

Protocol

A protocol is a rule that governs the communication of data.

Server

Servers are typically powerful and fast computers that store programs and data. The programs and data are shared by client computers (workstations) on the network.

Subnet Mask

Subnet Masks (subnetwork masks) are used by IP protocol to direct messages into a specified network segment (i.e., subnet). A subnet mask is stored in the client machine, server or router and is compared with an incoming IP address to determine whether to accept or reject the packet.

Glossary

TCP

(Transmission Control Protocol) is the transport protocol in TCP/IP that ensures messages over the network are transmitted accurately and completely.

TCP/IP

TCP/IP (Transmission Control Protocol/Internet Protocol) is the main Internet communications protocol suite. TCP ensures that data is completely sent and received at the other end. The IP component of TCP/IP provides data routability, meaning that data packets contain the destination station and network addresses, enabling TPC/IP messages to be sent to multiple networks within the LAN or in the WAN.

UDP

(User Datagram Protocol) is a protocol within TCP/IP that is used to transport information when accurate delivery isn't necessary (for example, realtime video and audio where packets can be dumped since there is no time for retransmitting the data).

Virtual Servers

Virtual Servers allow Internet users access to services, such as Web or FTP, running on your local network via the WAN IP address of the IP8100 series telephone. This is also referred to as opening ports or port forwarding. The Virtual Server forwards requests for the specified service to the specified IP address on your LAN.

VoIP

VoIP (Voice Over Internet Protocol) is a method used to deliver voice information over the Internet. VoIP services allow telephone calls using your PC or LAN.

WAN

WAN (Wide Area Network) is a communications network that covers a wide geographic area such as a country (contrasted with a LAN, which covers a small area such as a company building).

Troubleshooting

How do I access the web-based configuration for the IP8100 series telephone?

It is important that you have the latest patches and bug fixes for your web browser when attempting to connect to the configuration for your telephone adapter.

We recommend using the following:

Internet Explorer™ 5.5 or higher

Netscape 6 or higher

Firefox 0.8 or higher

Use the following steps to gain access to the web-based configuration of your IP8100 series telephone:

Step 1: Verify physical connectivity by checking for solid link lights on the phone adapter. The computer that was able to access the Internet when connected to the broadband modem or router should be connected to the PC port on the IP 8100 series telephone. If you do not get a solid link, try using a different cable. If the computer is turned off, the link light may not be on.

Step 2: Disable any Internet security software running on the computer. Software firewalls such as Zone Alarm, Black Ice, Sygate, Norton Personal Firewall, and Windows XP firewall may block access to the configuration pages. If you have DSL and use a PPPoE client such as WinPoet or EnterNet300, you should disable this software as well. Check the help files included with these software applications for more information on disabling or configuring them.

Step 3: Check the IP address of your computer. Your computer must have an IP address in the same range as the router in order to communicate with it, 192.168.15.X (X = 2-254). Included in the troubleshooting section of this manual is more detailed information on checking your IP address.

Step 4: Configure the Internet settings for your browser:

Go to Start > Settings > Control Panel. Double-click the Internet Options Icon. From the Security tab, click the button to restore the settings to their defaults. If this button is grayed out, then the settings are already at default.

Click the Connection tab. Set the dial-up option to Never Dial a Connection and then click the LAN Settings button.

Verify that none of these settings are checked and then click OK.

Go to the Advanced tab and click the button to restore these settings to their defaults.

Click OK out to the desktop and close any open windows.

Troubleshooting

Step 5: Access the web-based configuration of the IP8100 series telephone. Open your web browser and enter `http://192.168.15.1` (do NOT type `www`), in the address bar. Use the instructions that were provided with the IP8100 series telephone to complete the configuration as needed. Specifically, you will need to configure the WAN settings to connect the device to the Internet.

How do I configure TCP/IP settings for my computer to connect to the IP8100 series telephone?

Note: The following information assumes the computer is connected to the PC Port on the IP8100 series telephone.

Win98/ME:

Step 1: From the Desktop, right-click the Network Neighborhood icon (My Network Places in WinME), and then select Properties.

Step 2: Highlight TCP/IP and then click the Properties button. If you have more than one adapter installed, then there will be a TCP/IP entry for each adapter. Highlight TCP/IP > [your network adapter] and then click Properties.

Step 3: Make sure the IP Address tab is selected. Configure the adapter to **Obtain an IP address**. Then, Click **OK** out to the desktop to apply the changes. Reboot the computer when prompted. When the computer reboots it should request, and obtain, a valid IP address from the IP8100 series telephone. Included in the troubleshooting section of this manual is more detailed information on checking your IP address.

Win2k/XP:

Step 1 - Win2k: From the Desktop, right-click the **My Network** places and then select Properties.

Step 1 - WinXP: Click on **Start > Control Panel > Network and Internet Connections > Network connections**.

Step 2: Right-click on the **Local Area Connection** which represents your network card and then select **Properties**.

Step 3: Highlight **Internet Protocol (TCP/IP)** and click **Properties**.

Step 4: Configure the adapter to **Obtain an IP address**. Then, Click **OK** out to the desktop to apply the changes and reboot the computer when prompted. If you are not prompted to reboot the computer, you may need to renew the IP address of the computer manually. Included in the troubleshooting section of this manual is more detailed information on checking your IP address.

Troubleshooting

How do I check my computer's IP address?

Note: The following information assumes the computer is connected to the PC port on the IP8100 series telephone. It also assumes the computer's TCP/IP settings are configured to obtain an IP address automatically. Included in the troubleshooting section of this manual is more detailed information on configuring your TCP/IP settings.

Win98/ME:

Step 1: Go to **Start > Run** and enter **wiipcfg**. Click **OK**.

Step 2: From the dropdown menu, choose the **Ethernet adapter**.

Step 3: After selecting the adapter, it will display the IP settings. Your adapter should have an IP address in the same range as the IP8100 series telephone, 192.168.15.X. If it doesn't try releasing, then renewing the IP.

- a. Click the **Release** button to release the IP address.
- b. Click the **Renew** button to obtain a new address.

If you are unable to obtain a valid IP address, confirm that you have a good physical connection between the computer and the IP8100 series telephone.

Step 4: Click **OK** to close the IP configuration window.

Win2k/XP:

Step 1: Go to **Start > Run** and enter **cmd**. Click **OK**.

Step 2: From the **Command** prompt, enter **ipconfig** and then click **Enter**.

Step 3: It will return your IP address, Subnet Mask, and Default Gateway. Your adapter should have an IP address in the same range as the IP8100 series telephone, 192.168.15.X. If it doesn't try releasing, then renewing the IP.

- a. Enter **ipconfig/release** to release the IP address.
- b. Enter **ipconfig/renew** to obtain a new address.

If you are unable to obtain a valid IP address, confirm that you have a good physical connection between the computer and the IP8100 series telephone.

Step 4: Type, **exit** and then click **Enter** to close the **Command** prompt.

Troubleshooting

I followed the Quick Start Guide for DSL, but I wasn't able to successfully configure the IP8100 series telephone. What else can I do?

If your DSL provider uses PPPoE, confirm that you have entered the correct username and password in the IP8100 series telephone PPPoE settings. You may need to append your ISP's domain suffix to your username in order to connect. For example:

username@bellsouth.net

username@verizon.net

username@earthlink.net

Contact your ISP if you are unsure of your username or password.

Some DSL providers will issue a Dynamic IP address without using PPPoE for authentication. If this is the case for your provider, use the setup wizard in the IP8100 series telephone web-based configuration to configure the WAN type to use a Dynamic IP Address. Once you have applied that setting, power down your broadband modem and the IP8100 series telephone. Power the modem on first and let it stabilize. When the modem is ready, then power the IP8100 series telephone on. Wait a few seconds for the device to stabilize, and then test your connection.

I followed the Quick Start Guide for a Static IP, but I wasn't able to successfully configure the IP8100 series telephone. What else can I do?

From the computer that was previously connected to the broadband modem, access the web-based configuration for the IP8100 series telephone and clone the MAC address. After the setting has been applied, power off the IP8100 series telephone. Wait about 30 seconds before reapplying the power. Wait a few seconds for the device to stabilize, and then test your connection. If you still cannot connect, confirm that you have entered all the IP information correctly. Contact your ISP to confirm your IP address.

I followed Steps 1-6 in the Quick Start Guide, but I wasn't able to successfully configure the IP8100 series telephone. What else can I do?

If you didn't need to complete step 7, then it is assumed that your ISP is issuing you a Dynamic IP address. From the computer that was previously connected to the broadband modem, access the web-based configuration for the IP8100 series telephone and clone the MAC address. After the setting has been applied, poweroff the IP8100 series telephone. Wait about 30 seconds before reapplying the power. Wait a few seconds for the device to stabilize, and then test your connection.

Technical Specifications

Base Physical Connectors

- 10/100Mbps RJ45 Ethernet WAN port
- 10/100Mbps RJ45 auto-MDI/MDIX Ethernet LAN port
- Power adapter jack

Cordless

- RF Frequency Band: DSSFH 5.8GHz
- Channels: 95, channel spacing: 864 KHz
- Sensitivity: -95 dBm
- 2.5mm headset jack

VoIP

- SIPv1 and SIPv2
- Symmetric RTP
- CODEC: G.711 a-law/u-law, G.723, G.726, G.729a/b
- Codec negotiation
- Silence Suppression / Voice Activity Detection (VAD)
- Comfort Noise Generator (CNG)
- Echo Cancellation G.168
- Adaptive Echo Cancellation
- DTMF generation and detection

Network

- Ethernet Standards: IEEE 802.3, 802.3u, 802.3x flow control
- TCP/IP
- NAT
- DHCP
- DNS
- PPPoE
- StaticIP

Management

- Auto-configuration
- Web-based browser
- Remote management

Weight

- Base: 1.5 lbs
- Handset: 0.5 lbs each (2)

Technical Specifications

Dimension

- Base: 2" (W) x 6.25" (D) x 5" (H)
Handset: 2" (W) x 1.5" (D) x 6" (H)

Power

- Base unit voltage AC adapter voltage: 60Hz, 100 – 240 V
- Base unit voltage AC adapter output: 5.1 VDC 1700mA
- Handset voltage: 3.6 VDC

Operating Temperature

- 0° to 50°C

Certification

- FCC Part 15
- Vonage Networks

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