



Manual

Version 1.0

DPH-300

IP/DECT Dual-Mode
Cordless Phone

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Package Contents



- D-Link DPH-300 Cordless IP Telephone
- D-Link DPH-300 Cordless IP Telephone Connector Base
- Power Adapter-AC 9V AC, 1000 mA
- Manual and Warranty on CD
- Quick Installation Guide
- Ethernet Cable (the DPH-300's Ethernet port is Auto-MDIX)

Note: Using a power supply with a different voltage rating than the one included with the DPH-300 will cause damage and void the warranty for this product.

If any of the above items are missing, please contact your reseller.

Minimum System Requirements

- Broadband Internet connection
- Ethernet-Based Cable or DSL Modem
- A multi-port Ethernet router (possibly integrated as part of the Cable or DSL Modem listed above).
- 100Mbps of available Internet bandwidth
- Computer with Windows, Macintosh, or Linux-based operating system and an installed Ethernet adapter
- Internet Explorer Version 6.0 or Netscape Navigator Version 6.0 and Above

IMPORTANT BATTERY SAFETY INSTRUCTIONS

CAUTION: TO REDUCE THE RISK OF FIRE OR INJURY CAUSED BY THE BATTERIES, READ AND FOLLOW THESE INSTRUCTIONS.

1. **Use Only AAA, 1.2V 600mAh Ni-MH (Nickel Metal Hydride) batteries supplied by D-Link or D-Link Authorized Distributors.**
2. Contact D-Link to purchase replacement batteries if needed.
3. Do not mix old and new batteries in this product.
4. Do not mix different battery types or batteries from different manufacturers in this product.
5. Batteries are intended to be charged while in the handset. Charging with other chargers or in any other manner may cause the batteries to explode.
6. Do not dispose of the batteries in a fire. The batteries may explode. Check with local codes for possible special disposal instructions.
7. Do not open or mutilate the batteries. Released electrolyte is corrosive and may cause damage to the eyes or skin. It may be toxic if swallowed.
8. Exercise care in handling the batteries in order not to short them with conducting materials such as rings, bracelets, keys, or tools. The battery or conductor may overheat and cause burns.
9. Observe proper polarity orientation between the batteries and the battery receptacle of the handset.
10. Be aware that NiMH batteries, regardless of their apparent charge state, may be capable of producing electrical current sufficient to cause injury and property damage.
11. Never expose NiMH batteries to temperatures above 50 °C.

Statement of Liability

D-Link Corporation / D-Link Systems, Inc. does NOT assume any liability for death, injury or damage to equipment or property resulting from the use of this phone in a manner inconsistent with the use for which it was intended. D-Link Corporation / D-Link Systems, Inc, will not be liable for consequences that may result from tampering with the batteries or charger-base or consequences resulting from their use thereafter.

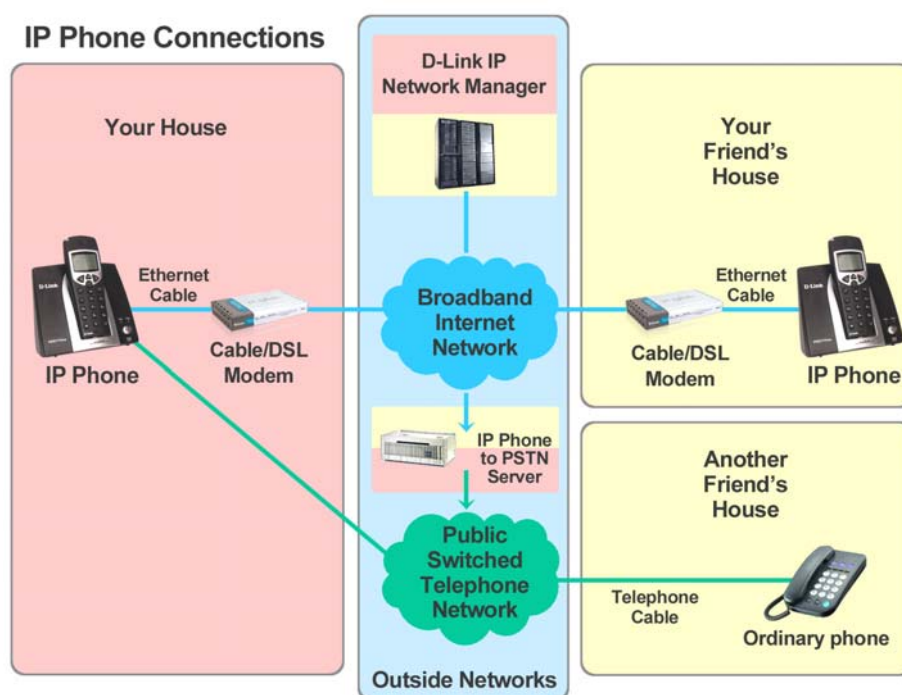
**** BATTERY CHARGING NOTE ****

Before you connect your DPH-300 to the Internet, your network, or your PC, you should install the batteries in the handset and place it on the base station for charging. The batteries need to be **charged for at least 12 hours** before the first time you use the DPH-300.

1. **Install the batteries.**
2. **Plug in the A/C adapter.**
3. **Put the handset on the base station**
4. **Wait 12 hours.**

Introduction

Before you start, your new DPH-300 Dual-mode Cordless Phone will require a connection to the Internet to function. The connection may be directly through a Cable or DSL modem, or it may be through a broadband router. Your DPH-300 phone will enable you to make VoIP (Voice over Internet Protocol) telephone calls – at zero or a very much reduced cost when compared to regular telephone service – to nearly anywhere, over the Internet.



The DPH-300 phone allows you to make and receive calls from both ordinary phone service and from IP telephony over the Internet. The basic diagram shown above outlines how your new dual-mode IP phone works.



Features and Benefits

- User-friendly configuration and diagnostic utilities
- 1 Foreign Exchange Subscriber (FXS) POTS port (RJ-11 Jack)
- 2 NWay 10/100BASE-TX Fast Ethernet ports for network connections
- Voice Activity Detection (VAD)/Comfort Noise Generation (CNG)
- Silence suppression to reduce bandwidth consumption
- Adaptive jitter buffer for smooth voice reception
- Lost packet recovery ability for improved voice quality
- IP address assignment using DHCP or static configuration
- Support Caller ID function
- Remote configuration and management over the Internet using web browsers
- FSK and DTMF dual mode CLIP (Calling Line Identification Presentation)
- Stores up to 30 calling numbers, in three types
- Stores up to 10 last dialed IP numbers, up to 12 digits for each number
- Stores up to 50 phonebook numbers, up to 12 characters for each name and 12 digits for each number
- LCD displays calling and dialing number
- Barring numbers setting (up to 5 numbers)
- Ringer tone selection – 9 different melodies
- IP and PSTN ringer tone independently configurable
- Ringer volume adjustment – 9 levels
- Handset earpiece volume setting – 9 levels
- Delete single or all records in phonebook
- Redialing and preparation dialing functions
- Page on base unit to look for the handset easily
- Clicking key tone on or off
- Supports GAP function
- Speakerphone

Hardware Overview

Connections

Power Adapter

Connect your 9V AC 1000 mA power adapter here.



LAN1 Port

Connect the Ethernet cable from your Cable/DSL modem to this port.

LAN2 Port

Connect the Ethernet cable from a computer on your LAN to this port.

Factory Reset Button

Pressing this button will restore the DPH-300 to its factory default settings.

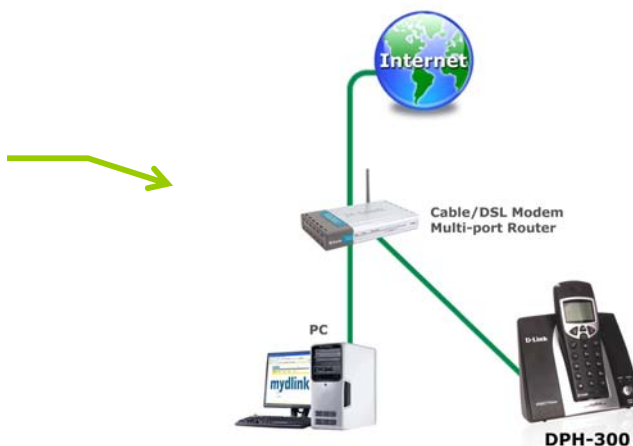
Phone Connection

Connect to your phones using standard phone cabling.

Physical Connection Methods

The DPH-300 can either be connected to an available port on a Cable/DSL modem multi-port router, with other devices connected to their own ports (as below).

Multi-port Router Connection



Or it can be connected to the WAN port of a Cable/DSL modem with a PC connected to the DPH-300 for Internet access as in the figure below.

Single-port Cable/DSL Modem Connection



LEDs

LAN1

A solid LED indicates an Ethernet link has been established. The LED will blink when there is activity on this link

LAN2

A solid LED indicates an Ethernet link has been established. The LED will blink when there is activity on this link



VoIP

An active LED indicates a VoIP session has been established.

Power/Status

A blinking LED indicates the DPH-300 is functioning properly, but has not yet registered with a VoIP server.

A solid LED indicates the DPH-300 has registered with a VoIP server and is ready for a call.



Factory Reset

In order to accomplish a Factory Reset of the DPH-300, it is necessary to do the following:

- 1) Remove the handset from the base station.
- 2) Place the base station face-down on a flat surface (such as a table or desk top).
- 3) Insert a bent paperclip or a toothpick in the hole for the Factory Reset Button (see the photo on page 7 for the button's location), and hold the button down.
- 4) While still holding the button down, unplug the power adapter.
- 5) Wait 10 seconds, then reconnect the power adapter without letting go of the Factory Reset Button.
- 6) Once you have restored power, continue holding the Factory Reset Button down for another 10 seconds.
- 7) **Complete!** The DPH-300 should have had the following factory default settings restored: IP Address; Call Logs (all).
- 8) **Note** that if your DPH-300 is still connected to the Internet, the auto-provisioning process should repeat itself after the factory reset, and the phone should return to a ready-state showing "D-Link" in the handset display and allowing IP calling.

If you need to reset the **handset** to its original factory default settings, see page 19, *HS Setting > Set Default*.

Keypad

IP

Use this button to initiate a VoIP telephone call. It is also used to switch the Handset to speakerphone mode by holding the button down for several seconds until the speaker icon appears in the display

On Hook

Use this button to hang up the Handset after you have finished a telephone call.

PSTN Dial Tone

Use this button to initiate a PSTN telephone call (over your existing phone line). It is also used to switch the Handset to speakerphone mode by holding the button down for several seconds until the speaker icon appears in the display

Clear

Use this button to switch the Handset off by holding the button until **Good Bye** appears in the display. Also, this button is used to clear an input.



Menu/OK

Use this button to open the Handset's setup and information menus.

Star

Pressing the following, then press the **IP** button:

****1 [IP]** – will play your DPH-300's IP address

****2 [IP]** – will play your DPH-300's phone number

****3 [IP]** – to set the Internet connection type.

Press **1** for DHCP mode

Press **2** for Static IP mode, followed by the IP address separated by *'s and then the # key (for example, **192*168*1*110#**)

Up

Use this button to open the *Contact List* when the Handset is idle. Pressing this button during a telephone call will increase the volume

Down

Use the button to open the *Phone Book* telephone numbers stored for your use. Pressing this button during a telephone call will decrease the volume.

Pound Key

Use this button for various input functions such as to enter a static IP address, as described to the left (under Star).



Keypad Table

The keys on the handset can be used to enter all of the numbers, letters, and symbols in the table below for features like the Phone Book or Handset User Name.

	1X	2X	3X	4X	5X
1	1	(space)	<	>	-
2_{abc}	Aa	Bb	Cc	2	@
3_{def}	Dd	Ee	Ff	3	:
4_{ghi}	Gg	Hh	Ii	4	+
5_{jkl}	Jj	Kk	Ll	5	*
6_{mno}	Mm	Nn	Oo	6	#
7_{pqrs}	Pp	Qq	Rr	Ss	7
8_{tuv}	Tt	Uu	Vv	8	.
9_{wxyz}	Ww	Xx	Yy	Zz	9
0₊	0	Ææ	Ää	Öö	Üü

Basic Handset Instructions

IP vs PSTN

The primary difference between IP dialing and PSTN dialing is that with IP dialing you enter the number you want to call *then* push the IP button. The IP button functions like the **Enter** (Return) key on a computer keyboard. For more detailed information about making different types of calls, see page 55, *Making Phone Calls*.

PSTN calls follow the standard ordinary phone service way of dialing, which is to say that to make a PSTN call, you first press the PSTN button, listen for a dial tone, then dial the number. PSTN dialing in “standby mode” is also supported, see page 56 for details.

A second important difference between IP and PSTN dialing is that all IP calls to non-IP numbers (also called, “TelTel Out” calls) require that you first enter a “+” sign and then the number before pressing the IP button.

Note: press and hold the “0” key to enter a “+” sign.

Handset Display

Once your DPH-300 has been successfully installed, auto-provisioned, account verified, and you have begun using it to make and receive calls, you will notice various displays in the handset, including settings menus. The displays provide information about the current status of the DPH-300 and its related services.

The three most basic displays are: *D-Link / Searching. . . / VoIP Offline*.

When the unit is working normally and has an Internet connection, the handset display will show “**D-Link**.”

While the unit is auto-provisioning – the first time or anytime thereafter such as following a power outage or network failure of some kind, the handset LCD will display “**Searching. . .**” and both the power and WAN LEDs on the base unit will flash until either a successful Internet connection is achieved or fails completely.

If the DPH-300 is unable to complete the auto-provisioning process, the handset LCD will display “**VoIP Offline**.”

Also note that when you press the Handset Locator button on the base station, the handset display will show “**---Paging---**” until you press the Handset Locator button again.

Handset Display (*continued*)

The handset has a maximum range rated at 50 meters (indoor) and up to 300 meters (outdoor) for clear line-of-sight operation. Local environment conditions will reduce the functional operating range, particularly when there are obstructions between the handset and base station. The indicator in the upper right corner of the LCD will indicate when signal strength is reduced due to obstructions or distance. When the signal is lost, the handset will display "Searching. . ." until it is back in range. While the handset is out of range, none of the handset menus or settings are available for either display or modification. Note, however, that handset menus and settings are available when the handset is in range of the base station but is "VoIP Offline" due to some difficulty with the network.

Handset Symbols

The handset LCD includes symbols indicating various things about the current status and operation of the DPH-300 phone. Please see the table below for information about the handset symbols.

Icon	Description
	Signal Strength Indicates the current signal strength between the handset and the base – more bars indicate higher signal strength. This icon is always displayed when the telephone is on.
	In Use Displayed when the telephone is in use (i.e., a telephone call is in progress).
	Speakerphone Indicates the handset is in speakerphone mode.
	Intercom Indicates the handset is in intercom conversation mode.
	Operation Mode Displayed when the handset is in operation mode.
	Caller List Indicates a new call. To view the caller, access the Caller List menu.
	Battery Status Indicates the relative charge state of the handset's batteries – more bars indicates a higher level of battery charge. During the charging cycle, this icon will flash. This icon is always displayed when the telephone is on.

Phone Book and ContactList

Each handset has two lists independent list of phone contacts: Phone Book and ContactList. Phone Book entries are numbers you have entered in the handset directly using the Handset Menus (described in the next section). The Phone Book can store up to 50 entries. Note that entries must be entered exactly as necessary for dialing purposes. To dial a number entered in your handset Phone Book, press the down arrow key, scroll through the entries to select the number, then press either the IP key or PSTN key as appropriate for the call you wish to make. See the Handset Settings / Menus sub-section below for information on adding entries to the Phone Book.

ContactList entries are displayed in the handset but can not be added or modified using the handset. To create new ContactList entries or edit existing entries, you must access your account on the mydlink.com website. See page 41 for information about the My Services > Contact Management section of mydlink.com.

Handset Settings / Menus

Handset menus described in this section are listed in the order they are displayed by the handset. To see the top level of menus, press the **Menu/OK** key. Also press the **Menu/OK** key to open the next menu level or to confirm an entry or setting (much like the **Enter** key on a computer keyboard).

System Info > My IP

→ Displays the IP address currently assigned to the DPH-300.

System Info > mydlink No.

→ Displays the mydlink number assigned to the DPH-300 after initial auto-provisioning.

Call LOG > Missed

→ Displays recent calls that have gone unanswered.

Call LOG > Received

→ Displays a list of recent calls received.

Call LOG > Dialed

→ Displays a list of recently dialed numbers.

ContactList

→ Displays the current list of contacts entered in the mydlink.com Contact Management webpage. See the sub-section above and page 41 for more information about the ContactList and how to use it.

Handset Settings / Menus (*continued*)

Phone Book > Add

→ Allows you to create a new Phone Book entry by creating a name (enter a maximum of 12 characters and press **Menu/OK**), entering the number exactly as it needs to be dialed (maximum of 24 digits), and finally pressing **Menu/OK** again. If you have successfully created a new entry, the handset will display "Stored" and return to the usual D-Link ready screen. You may create up to 50 entries.

Phone Book > Edit

→ Allows you to edit existing Phone Book entries. Press **Menu/OK**, select the entry to edit from the list, and press **Menu/OK** again. Edit the name and press **Menu/OK**. Edit the number and press **Menu/OK** again. If you have successfully edited the entry, the handset will display "Stored" and return to the usual D-Link ready screen.

Phone Book > View

→ Displays the current Phone Book entries. Press **Menu/OK** to access the list and then use the up and down arrow keys to display the entries.

Phone Book > Delete

→ Allows you to delete Phone Book entries one at a time. Press **Menu/OK** to access the list, use the up and down arrow keys to scroll through the entries, select the one you want to delete, and press the **Menu/OK** key again. You will be prompted with "Sure ?" before the entry will be deleted. Press the **Menu/OK** key again to delete the entry you chose or press the **Clear** key to cancel.

Phone Book > Erase all

→ Allows you to delete all Phone Book entries. Press **Menu/OK** to erase the entire list. You will be prompted with "Sure ?" before the entries will be deleted. Press the **Menu/OK** key again to delete all entries or press the **Clear** key to cancel.

Caller List > PSTN Calls

→ Displays a list of up to the last 50 PSTN calls received, including the name and number of the caller using standard Caller ID data.

Caller List > Erase all

→ Allows you to delete all Caller List entries. Press **Menu/OK** to erase the entire list. You will be prompted with "Sure ?" before the entries will be deleted. Press the **Menu/OK** key again to delete all entries or press the **Clear** key to cancel.

Handset Settings / Menus (*continued*)

HS Setting > PSTN Ring

→ Allows you to select a different ring tone for incoming PSTN calls. There are nine tones to choose from (Ering 1 ~ Ering 9). Scroll through the list using the up and down arrow keys and press **Menu/OK** to select the one you want. After you select a tone, it will be followed by a volume setting indicated by a number. To raise or lower the volume, use the up and down arrow keys.

HS Setting > VoIP Ring

→ Allows you to select a different ring tone for incoming VoIP calls. There are nine tones to choose from (Iring 1 ~ Iring 9). Scroll through the list using the up and down arrow keys and press **Menu/OK** to select the one you want. After you select a tone, it will be followed by a volume setting indicated by a number. To raise or lower the volume, use the up and down arrow keys.

HS Setting > Set keytone

→ Allows you to turn on and off the sound which accompanies any press of a handset button. Select On and press **Menu/OK** if you want to hear the tone when you press handset buttons. Select Off and press **Menu/OK** if you do not want to hear the tone.

HS Setting > User name

→ Allows you to assign a user name to the handset.

HS Setting > Set PIN

→ Allows you to assign a PIN code to the handset. The factory default PIN code is: 1590. You must enter it first in order to change the PIN.

HS Setting > Auto answer

→ Allows you to turn the auto answer feature on and off. Enabling auto answer allows you to answer incoming calls by simply picking-up the handset from the base station. Choose On and press **Menu/OK** to enable auto answer. Select Off and press **Menu/OK** if you do not want to enable auto answer.

HS Setting > Anykey talk

→ Allows you to turn the anykey talk feature on and off. Enabling anykey talk allows you to answer incoming calls by pressing any key on the handset. Choose On and press **Menu/OK** to enable anykey talk. Select Off and press **Menu/OK** if you do not want to enable anykey talk.

Handset Settings / Menus (*continued*)

HS Setting > Language

→ Allows you to change the display language of the handset. Choose English, Deutsch, Italiano, Francais, or Espanol and press **Menu/OK**.

HS Setting > Set default

→ Allows you to return all handset settings to their factory default values.

BS Setting > [future feature]

→ BS (base station) settings relate to technical aspects of handset management for multi-handset environments. *Multi-handset environments are a future supported feature. It is not recommended for users to try and change these settings at this time.*

Select Base > Base 1 ~ 4, Auto [future feature]

→ Select Base settings relate to technical aspects of handset ↔ base station management relative to multiple base stations. *Multiple base station environments are a future feature. It is not recommended for users to try and change these settings at this time.*

HS Register > Base 1 ~ 4 [future feature]

→ HS (handset) Register settings relate to technical aspects of handset management relative to multiple base stations and multi-handset environments. *Multi-handset and multiple base station environments are a future feature. It is not recommended for users to try and change these settings at this time.*

Intercom Function [future feature]

The Intercom function allows one handset to call another, in a manner similar to walkie-talkies, and is activated when you press the clear button without being in the middle of a call. You will see **“Intercom”** and the INT symbol in the LCD.

Transfer Function [future feature]

The Transfer function allows one handset to send an outside call to another handset. Transfer is activated when you press the clear button during a call. You will see **“Transfer”** in the display.

Multi-Handset Use [future feature]

If you would like more information about acquiring and using multiple handsets, contact your nearest D-Link distributor or local D-Link office, or choose a website from the list at the end of this user manual to contact us for help.

Getting Started

BEFORE YOU BEGIN!

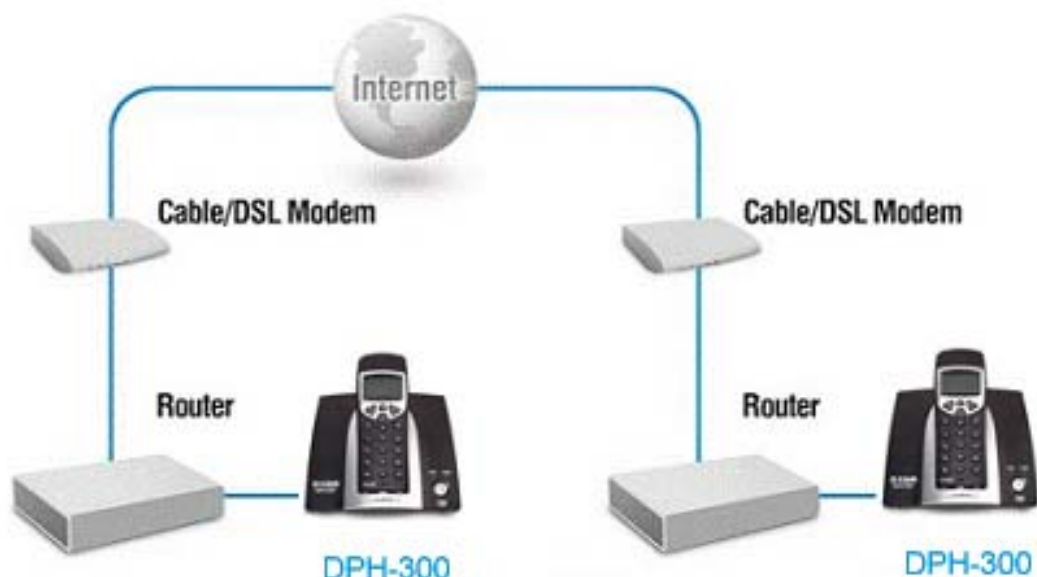
Charge the handset batteries (see page 4).

Read the *Opening Ports on Routers and Gateways* section of this manual if you are using the DPH-300 with a router or gateway.

The DPH-300 needs to be setup before use. You can use the **Quick Installation Guide** (included with the DPH-300) to perform the hardware installation. There is an easy to use setup **Wizard** built-in to the DPH-300 to accomplish the IP address setup. You will need to run the Wizard and enter your Internet connection information in order to use your phone for IP calling only if you do not have access to Dynamic IP Addressing.

Dynamic IP Address is the default setting and requires no user changes.

If you have Dynamic IP Addressing (also called, "DHCP"), check the Quick Installation Guide for information on the physical connection of the DPH-300, and skip to page 28 of this document: *Auto-provisioning*. Otherwise, continue to the next section.



Connecting to the Configuration Web Page

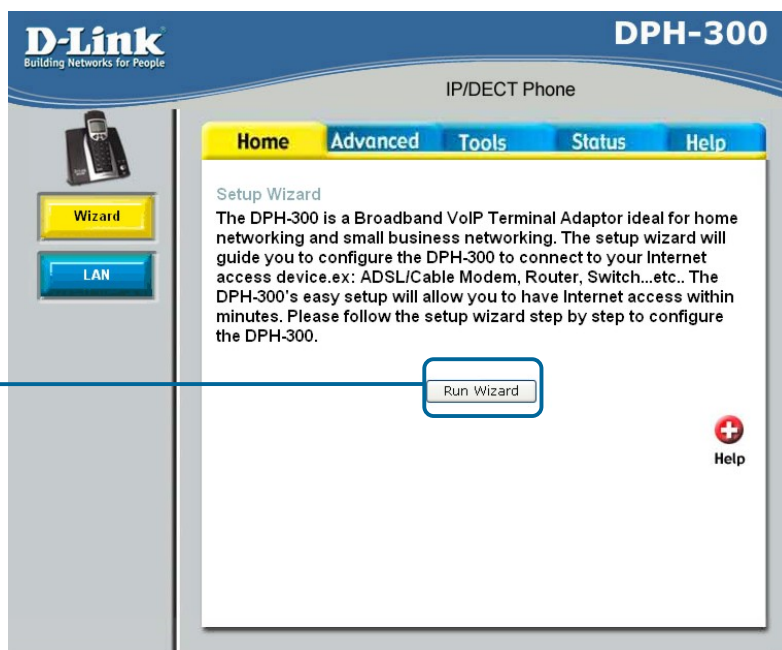
Open your Web browser and type **http://10.1.1.1** into the URL address box. Press **Enter** or **Return**.



When you first log in, the User name is **admin** and the Password is also **admin**. You may change these later.



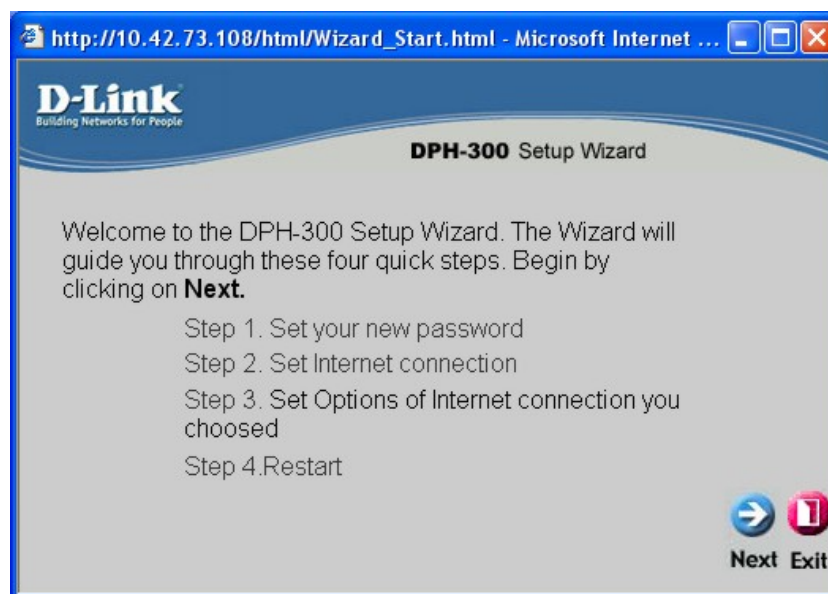
Click **Run Wizard**.



Using the Setup Wizard

Configuring the WAN (Internet) Connection

Click **Run Wizard** on the main Web page above to view the following **Setup Wizard** window:



Click the **Next** button on the menu above to view the following **Wizard** window:

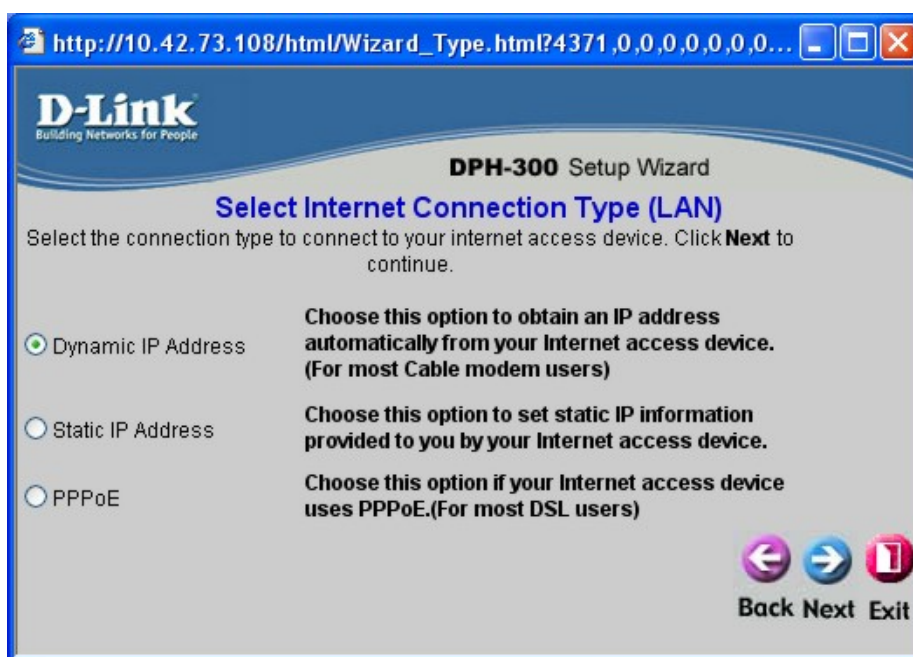


Enter a new password for the DPH-300 in the **Password** field.
Confirm the new password by entering it again in the **Verify Password** field.
Click the **Next** button to continue.

Selecting the Type of LAN Connection

Dynamic IP Address (using DHCP) is both the default option, and the most commonly used method to assign devices on a LAN IP address information when connecting to a broadband modem or multi-port Ethernet router or DHCP server.

Most DPH-300 users should select the **Dynamic IP Address** option.



The window above allows you to select between the three most common ways to connect to your ISP's WAN (Internet).

Select **Dynamic IP Address** if your DPH-300 will be connected directly to a broadband modem or a router/DHCP server. This is the most common way of connecting devices such as the DPH-300 to the Internet.

Select **Static IP Address** when connecting to a broadband connection that offers static IP addressing or when behind a router that does not have a DHCP server enabled. This choice requires the input of specific IP address information.

PPPoE (Point-to-Point Protocol over Ethernet) is used when connecting directly to a DSL modem that offers a PPPoE connection. This choice requires you to input the User Name and Password of your PPPoE account – provided by your ISP.

Click the **Next** button to continue.

Set Dynamic IP Address

Dynamic IP Address (using DHCP) is both the default option, and the most commonly used method to assign devices on a LAN IP address information when connecting to a broadband modem or multi-port Ethernet router/DHCP server.

Most DPH-300 users should select the **Dynamic IP Address** option.

Host Name – Your Internet Service Provider may require you to provide a host name to connect to the Internet. If this is required, you can enter it here.

MAC – the Media Access Control (MAC) address is a unique identifier for the Ethernet network hardware of your DPH-300. If you need to know the MAC address of your DPH-300, it can be found here. The DPH-300 MAC address is also printed on a sticker on the back of the DPH-300 base. (Cable modems commonly use the MAC address of the first PC to log into the Internet as the identifier for an account.)

Click the **Next** button to continue.

Set Static IP Address

Static IP (or Fixed IP) addressing is used when connecting to a broadband connection that requires static IP addressing or when connecting behind a router that does not offer a DHCP server function. This choice requires the input of specific IP address information.

http://10.42.73.108/html/Wizard_IpAddr.html?4361,0,0,0,0,0,0...

D-Link
Building Networks for People

DPH-300 Setup Wizard

Set Static IP Address

Enter in the static IP information provided to you by your internet access device.
Click **Next** to continue.

LAN IP Address 10 . 42 . 73 . 108

LAN Subnet Mask 255 . 0 . 0 . 0

LAN Gateway Address 10 . 254 . 254 . 251

Primary DNS Address 168 . 95 . 1 . 1

Secondary DNS Address 0 . 0 . 0 . 0 (optional)

Back Next Exit

LAN IP Address – Input the IP address provided from your router configuration settings, ISP, or network administrator.

LAN Subnet Mask – Input the Subnet mask provided from your router configuration settings, ISP, or network administrator.

LAN Gateway Address – Input the Gateway address provided from your router configuration settings, ISP, or network administrator.

Primary DNS Address – Input the DNS address provided from your router configuration settings, ISP, or network administrator.

Secondary DNS Address – Input a secondary DNS address (optional) provided from your router configuration settings, ISP, or network administrator.

The Domain Name System (DNS) translates Internet domain names (for example <https://www.mydlink.com> which is easy for people to use and remember) to IP addresses, which are what computers use to find each other on the Internet.

Click the **Next** button to continue.

PPPoE

PPPoE (Point-to-Point Protocol over Ethernet) is used when connecting directly to a DSL modem that offers a PPPoE connection. This choice requires that you input the User Name and Password of your PPPoE account – provided by your ISP.

PPPoE Note: The DPH-300 can connect to the Internet using PPPoE but will not provide IP addresses to other devices on your network (like a PC). If you have a PPPoE connection and need to connect your PC to the Internet through the DPH-300, you will need to configure your PC's IP address information manually, and the IP address, default gateway, subnet mask settings will need to be consistent with the IP settings of your DPH-300. See your OS documentation for information on changing your PC's IP settings.

User Name – your PPPoE User Name as provided by your ISP.

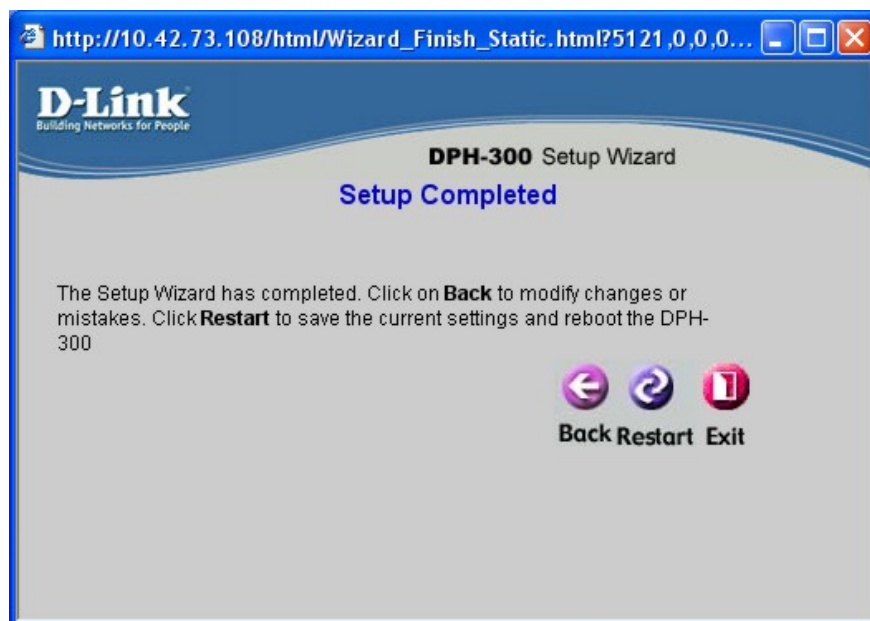
Password – Enter your PPPoE Password.

Retype Password – Retype your PPPoE Password to confirm.

Click the **Next** button to continue.

Restart the DPH-300

Once you have completed the Setup Wizard to configure the DPH-300 for its Internet connection, you will need to save the settings and restart the DPH-300 before the settings become active. When you have restarted the DPH-300, it will automatically connect to the D-Link IP Network Manager and complete the auto-provisioning process.



Click the **Restart** button to save the settings and restart the router.

You will now be able to connect the DPH-300 to the Internet so it can contact the SIP server and make telephone calls over the Internet using VoIP technology.

Connect the DPH-300 to an available Ethernet port on your broadband router or modem and use your VoIP telephone. You will hear a short tone on the telephone after you have dialed a number to indicate that the DPH-300 has successfully connected to the SIP server (registered) and the Power/Status LED will glow continuously.

Auto-provisioning

When you first connect your DPH-300 phone to the Internet through a Cable or DSL modem or a router, it will automatically contact the D-Link IP Network Manager service and complete the first half of the process required to allow you to begin making IP telephone calls.

The first half of this process is called, "auto-provisioning" and involves identifying the presence and status of your DPH-300 for the mydlink global Internet telephony system. This part of the process is completely automatic once the DPH-300 is successfully connected to the Internet.

The auto-provisioning process may take a minute or so to complete. While the unit is auto-provisioning, the handset LCD will display "*Searching. . .*" and both the power and WAN LEDs on the base unit will flash. When the auto-provisioning process is complete, the handset will display "*D-Link*" and the LEDs will stop flashing.

After you have completed the setup and auto-provisioning processes and your phone is ready to use, you should note the following information:

Your **mydlink number** (8-digits) : _____

Your **mydlink account PIN** : _____

Your **PSTN phone number** : _____

Your **DPH-300 IP address** : _____

Your **mydlink primary contact e-mail address** : _____

After auto-provisioning, you must use a web browser to access and verify your account on the mydlink website at <https://www.mydlink.com>.

mydlink Number / PIN Note: Your **mydlink No.** and **PIN** code are provided in the box with your DPH-300. There is a sticker on the front of the DPH-300 base station with your 8-digit mydlink number and your initial PIN code.

Verification

When you first enter the mydlink website, you are asked to input your **mydlink No.** and **PIN Code**, as provided in the box with your DPH-300. The website's login homepage is shown on page 32. It is highly recommended that you change your PIN Code to improve the security of your VoIP connection, but changing the PIN Code is not necessary to complete the account verification.

Once you have signed in, you will see a **Disclaimer** that you should read and then click the **Yes, I agree** button if you agree. The disclaimer will only be displayed the first time you access your mydlink account once you click **Yes, I agree**.

After you have accepted the disclaimer, a **Summary** page (below) will present the details of your account – including the amount of TelTel credit you have toward making TelTel Out IP calls using your DPH-300 phone.

The screenshot displays the mydlink web services portal. At the top, the mydlink logo is followed by the tagline "Your Web Services Portal". A navigation bar includes links for "My Account", "My Services", "Redeem", "My Store", and "Support". A welcome message reads "Welcome 40010019, [Sign Out](#)". Below this, a yellow banner contains links: "Summary", "Product Profile", "Call History", "Order History", "Change PIN Code", and "Contact Email". A message box states: "Your [Contact Email](#) have not been verified. Verify by email to enable calling".

The main content area shows the "mydlink number : 40010019". Under the "My Balance" section, it lists "Bonus credits : You have 0 minute based on [TelTel-Out One-Rate](#) (Valid until : 07/27/2006)" and "TelTel credits : USD \$0.045 (Valid until : 02/10/2007)".

The "My Device Group" section includes the text "Access your other device accounts from here" and a table with columns "Device Number", "Type", and "Remove From Group". Below the table, there is an "Add new Device" section with input fields for "mydlink No :" and "PIN Code :", and an "Add" button. Under "Other Functions", there is a link: "-Remove all devices and delete this group".

The "Settings" section shows "Your current contact email is : **Unverified** [Change my contact email](#)" and "Your calls will be forwarded to : **+886916007816** [Change my call forwarding](#)".

The first time you sign in to the mydlink website, you will be asked to verify your account by entering your e-mail address in the **Contact Email** page which is a subcategory of **My Account**. Click either **Contact Email** link to access the **Verify Your Email Address** page and enter your e-mail address.

You must enter your e-mail address in the **Contact Email** field and click the **Save** button.

mydlink will send an e-mail message to the address you entered. Follow the instructions in the e-mail message to enter the verification code in the **Verify Your Email Address** page of mydlink.

mydlink
Your Web Services Portal

Welcome 40001013, [Sign Out](#)

My Account | **My Services** | **Redeem** | **My Store** | **Support**

| [Summary](#) | [Product Profile](#) | [Call History](#) | [Order History](#) | [Change PIN Code](#) | **Contact Email** |

■ Verify Your Email Address

Your email address has been verified.
To change your contact email:

- 1 Enter your Contact Email ([change](#))**
Contact Email:
- 2 Check your email box and click on the verification link. Or copy and past the verification code below.**
Verification code:
- 3 Congratulations!**

Do You Know?

Unless you change it, your default primary contact email is your mydlink account.

It is important that your primary contact email account is one that you can access regularly, because that is where your invoices and notifications are sent.

We will not release your personal information to any third party without your express agreement. You can find out more information from our [privacy policy](#).

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Once you receive e-mail from mydlink, you must return to this screen (below) in mydlink, enter the **Verification Code** sent to you by e-mail, and click the **Verify** button.

mydlink
Your Web Services Portal

Welcome **40001013**, [Sign Out](#)

My Account | **My Services** | **Redeem** | **My Store** | **Support**

| [Summary](#) | [Product Profile](#) | [Call History](#) | [Order History](#) | [Change PIN Code](#) | [Contact Email](#) |

■ Verify Your Email Address

Your email address has been verified.
To change your contact email:

1 Enter your Contact Email ([change](#))

Contact Email:

2 Check your email box and click on the verification link. Or copy and past the verification code below.

Verification code:

3 Congratulations!

Do You Know?

Unless you change it, your default primary contact email is your mydlink account.

It is important that your primary contact email account is one that you can access regularly, because that is where your invoices and notifications are sent.

We will not release your personal information to any third party without your express agreement. You can find out more information from our [privacy policy](#).

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After you have verified your account, your DPH-300 is ready to make and receive IP phone calls from other mydlink users, and to use mydlink's other calling services.

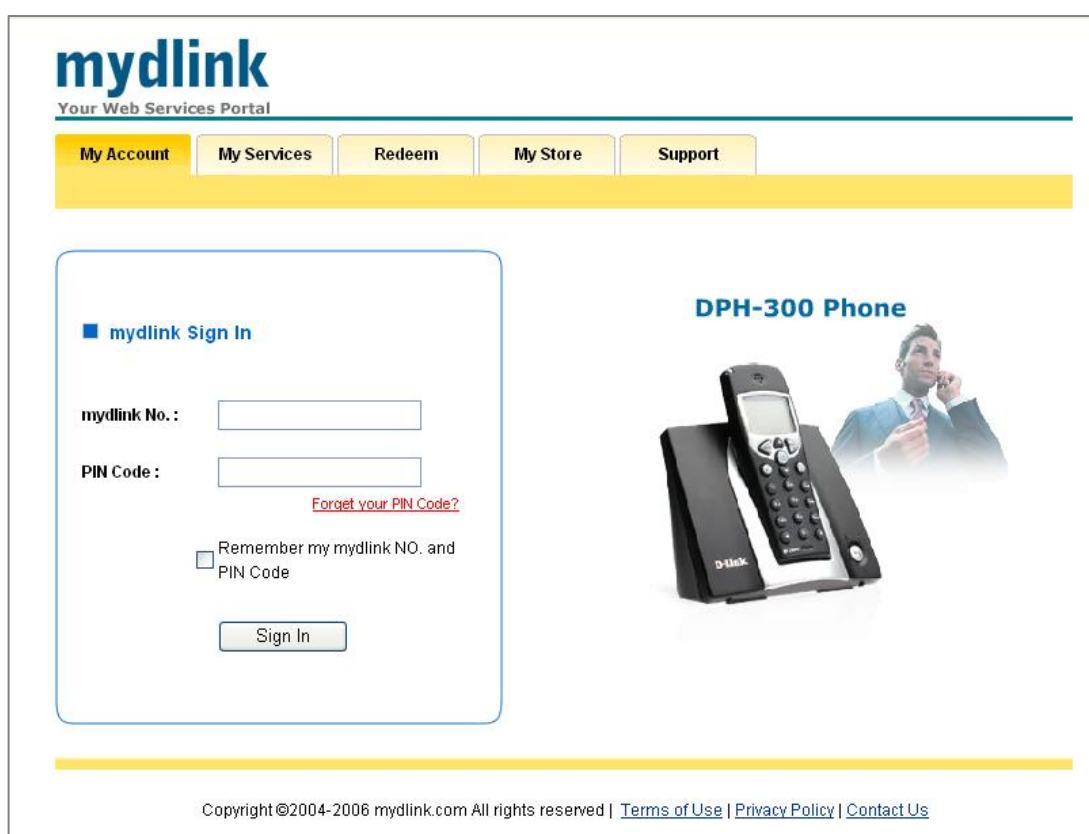
Once your account is activated, you may receive **Bonus credits** for IP calls to ordinary phones (TelTel Out calls). Check the **Summary** under **My Account** for information about your current call credits (Bonus and TelTel credits under My Balance).

mydlink

Sign in to the www.mydlink.com website

Once you have completed the Setup Wizard, your DPH-300 is pre-configured to use auto-provisioning to download the appropriate SIP configuration for use with the D-Link IP Network Manager service. You can then make VoIP calls to other mydlink users without charge. To make other types of telephone calls (for example, from your VoIP phone to a regular (PSTN) telephone) you will need to visit the mydlink website at <https://www.mydlink.com> to purchase call-out credits for your account.

When you first enter the mydlink website, you are asked to input your mydlink No. and PIN Code, as provided with your DPH-300. The website's homepage is shown below. It is highly recommended that you change your PIN Code to improve the security of your VoIP connection.



The screenshot shows the mydlink website homepage. At the top is the mydlink logo and the tagline "Your Web Services Portal". Below this is a navigation bar with five tabs: "My Account", "My Services", "Redeem", "My Store", and "Support". The main content area features a "mydlink Sign In" section on the left, which includes input fields for "mydlink No.:" and "PIN Code:", a "Remember my mydlink NO. and PIN Code" checkbox, and a "Sign In" button. A link for "Forget your PIN Code?" is also present. To the right of the sign-in form is an image of a D-Link DPH-300 phone with a man in a suit talking on it, labeled "DPH-300 Phone". At the bottom of the page, there is a copyright notice: "Copyright ©2004-2006 mydlink.com All rights reserved | [Terms of Use](#) | [Privacy Policy](#) | [Contact Us](#)".

Type in your mydlink number in the **mydlink No.** field, and your **PIN Code** as provided with your DPH-300. Click the **Sign In** button. This will open the **My Account** page, as shown below. Click **Forget your PIN Code?** if you need to have mydlink send your PIN to your verified **Contact Email** address.

My Account > Summary

Once you have signed in, a **Summary** page will present the details of your account – including the amount of TelTel credit you have toward making TelTel Out calls from your DPH-300 VoIP phone and a PSTN (regular) phone. You can also check your current contact e-mail and call forwarding status in the page shown below.

mydlink
Your Web Services Portal

Welcome **40001013**, [Sign Out](#)

My Account | **My Services** | **Redeem** | **My Store** | **Support**

| **Summary** | [Product Profile](#) | [Call History](#) | [Order History](#) | [Change PIN Code](#) | [Contact Email](#) |

mydlink number : 40001013

■ **My Balance**

Bonus credits : You have **76 minutes** based on [TelTel-Out One-Rate](#) (Valid until : 03/24/2007)

TelTel credits : **USD \$0.000** (Valid until : 09/25/2006)

■ **My Device Group**

Access your other device accounts from here

Device Number	Type	Remove From Group
---------------	------	-------------------

Add new Device

mydlink No :

PIN Code :

Other Functions

[-Remove all devices and delete this group](#)

■ **Settings**

Your current contact email is : [brian@telcel.com](#) [Change my contact email](#)

Your calls will be forwarded to : **+8613701860536** [Change my call forwarding](#)

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You can navigate through the mydlink website by selecting a folder tab at the top of the page, and then a category within the selected folder from the yellow bar under the tab.

My Account > Summary > My Device Group

The **Summary** page includes a Device Group function that allows you to view and manage more than one mydlink device account after logging-in to only one. Once you have logged in, if you have other mydlink device accounts that you would like to manage, add them to your Device Group by entering each device's **mydlink number** and **PIN code** in the appropriate fields and then click **Add**. When you add your first device to the group, mydlink will automatically add the mydlink account that you used when you logged in to the website.

All devices in the group will be displayed and each can be accessed starting from this **Summary** page. Each device can also be removed from the group individually, or the entire group can be deleted using the link at the bottom of the My Device Group section.

mydlink
Your Web Services Portal

Welcome **40001013**, [Sign Out](#)

My Account | **My Services** | **Redeem** | **My Store** | **Support**

| [Summary](#) | [Product Profile](#) | [Call History](#) | [Order History](#) | [Change PIN Code](#) | [Contact Email](#) |

mydlink number : 40001013

My Balance

Bonus credits : You have **59 minutes** based on [TelTel-Out One-Rate](#) (Valid until : 03/24/2007)

TelTel credits : **USD \$0.000** (Valid until : 09/25/2006)

My Device Group

Access your other device accounts from here

Device Number	Type	Remove From Group
▶ 40001013	DPH300(DECT)	Remove
40010019	DPH500(Wifi Phone)	Remove

Add new Device

mydlink No :

PIN Code :

Other Functions

[-Remove all devices and delete this group](#)

Settings

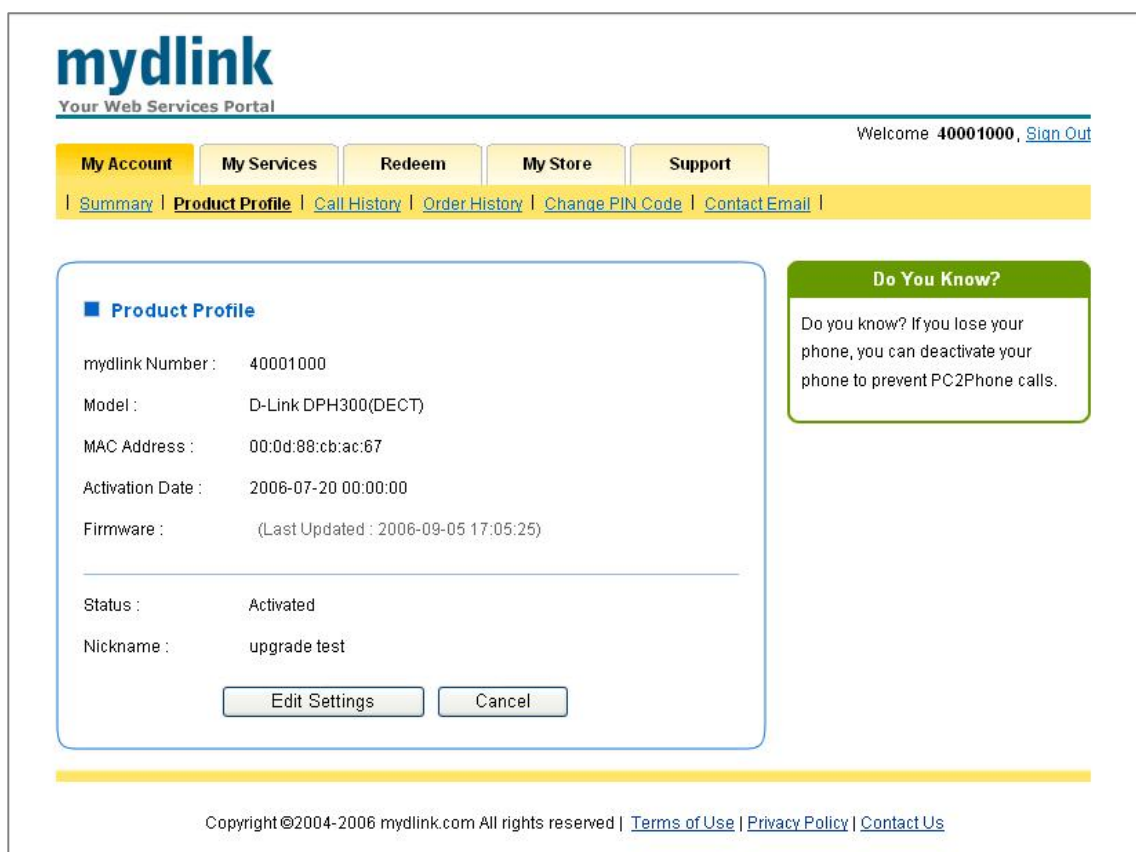
Your current contact email is : **che1000@yahoo.com** [Change my contact email](#)

Your calls will be forwarded to : **No destination setup yet.** [Change my call forwarding](#)

My Account > Product Profile

The **Product Profile** page displays your **mydlink Number** – which functions as your VoIP telephone number. This is the number another mydlink user will enter to place a VoIP telephone call to you.

Other important data such as the model, serial number and firmware version are listed on this page.



The screenshot shows the mydlink website's 'Product Profile' page. At the top, the mydlink logo is followed by the tagline 'Your Web Services Portal'. A navigation bar contains tabs for 'My Account', 'My Services', 'Redeem', 'My Store', and 'Support'. Below this, a yellow bar lists links: 'Summary', 'Product Profile' (highlighted), 'Call History', 'Order History', 'Change PIN Code', and 'Contact Email'. The main content area is titled 'Product Profile' and displays the following information:

mydlink Number :	40001000
Model :	D-Link DPH300(DECT)
MAC Address :	00:0d:88:cb:ac:67
Activation Date :	2006-07-20 00:00:00
Firmware :	(Last Updated : 2006-09-05 17:05:25)

Below this table, the status is 'Activated' and the nickname is 'upgrade test'. At the bottom of the profile section are 'Edit Settings' and 'Cancel' buttons. To the right, a green box titled 'Do You Know?' contains the text: 'Do you know? If you lose your phone, you can deactivate your phone to prevent PC2Phone calls.' The footer of the page states: 'Copyright ©2004-2006 mydlink.com All rights reserved | [Terms of Use](#) | [Privacy Policy](#) | [Contact Us](#)'.

You can navigate through the mydlink website by selecting a folder tab at the top of the page, and then a category within the selected folder from the yellow bar under the tab.

The next category under the **My Account** tab is **Call History**. Selecting this category will open the page shown below.

My Account > Call History

The **Call History** page displays all of your recent **TelTel Out** and **TelTel Call-Forwarding** calls (all of the types of IP calls you can be charged for) on one simple to read page, as shown below.

mydlink
Your Web Services Portal

Welcome **40001000**, [Sign Out](#)

My Account | **My Services** | **Redeem** | **My Store** | **Support**

| [Summary](#) | [Product Profile](#) | **[Call History](#)** | [Order History](#) | [Change PIN Code](#) | [Contact Email](#) |

■ Call History

Only TelTel-Out and Call-Forwarding calls are listed out here. If you see yourself listed under "Call To", that means it is a call forwarded to you.

Start date : 08 14 2006 End date : 09 14 2006

Records: 6 - Page 1 of 1 First | Prev | 1 | Next | Last

Date	Origin From	Type	Call To	Duration	Amount (\$USD)
09/14/2006 11:43:23		TelTel-Out	886266000123	00:00:25	0.010
09/14/2006 10:24:18	40001004	Forwarding	8613911770458	00:00:12	0.004
09/13/2006 17:17:41		Forwarding	8613911770458	00:00:02	0.000
09/11/2006 17:34:55		Forwarding	8613701860536	00:00:12	0.004
08/29/2006 19:30:52		TelTel-Out	886266000123	00:00:12	0.004
08/29/2006 19:10:19		TelTel-Out	886266000123	00:00:18	0.006
Total			00:01:21		\$0.028

Records: 6 - Page 1 of 1 First | Prev | 1 | Next | Last

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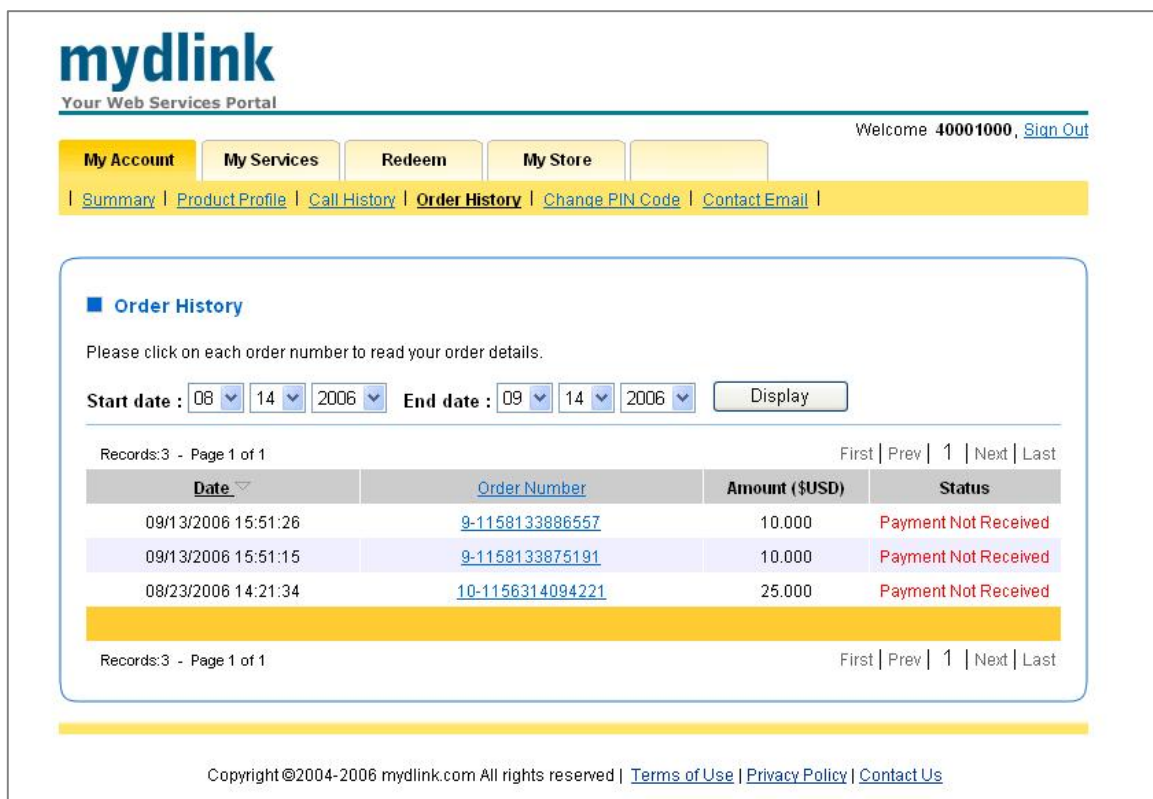
New call entries are added to the **Call History** list within one or two minutes of the completion of the call.

You can navigate through the mydlink website by selecting a folder tab at the top of the page, and then a category within the selected folder from the yellow bar under the tab.

Order History is the next category under the **My Account** tab. Selecting this category will open the page shown below.

My Account > Order History

The **Order History** page displays all of your recent **TelTel** credit purchases (TelTel credits are used to pay for all of the VoIP calls you can be charged for, such as **TelTel Out** or **TelTel Call-Forwarding** calls) on one simple to read page, as shown below.



mydlink
Your Web Services Portal

Welcome **40001000**, [Sign Out](#)

My Account | **My Services** | **Redeem** | **My Store** | **Order History** | [Change PIN Code](#) | [Contact Email](#)

Order History

Please click on each order number to read your order details.

Start date : 08 14 2006 End date : 09 14 2006 [Display](#)

Records: 3 - Page 1 of 1

Date	Order Number	Amount (\$USD)	Status
09/13/2006 15:51:26	9-1158133886557	10.000	Payment Not Received
09/13/2006 15:51:15	9-1158133875191	10.000	Payment Not Received
08/23/2006 14:21:34	10-1156314094221	25.000	Payment Not Received

Records: 3 - Page 1 of 1

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You can purchase TelTel Credits by clicking the **My Store** tab, and then selecting the **TelTel Store** category.

Change PIN Code is the next category under the **My Account** tab. Selecting this category will open the page shown below.

My Account > Change PIN Code

The **Change PIN Code** page allows you to change your PIN code from the one printed in the material packaged with your DPH-300. This will allow you more security and reduce the chance that your TelTel Credit might be used by an unauthorized user.

It is highly recommended that you change your PIN Code from the one issued by the factory to one that only you and authorized users know. Be sure to write your new PIN Code down and keep it in a secure place for future reference.

mydlink
Your Web Services Portal

Welcome **40001000**, [Sign Out](#)

My Account | **My Services** | **Redeem** | **My Store** | **Support**

| [Summary](#) | [Product Profile](#) | [Call History](#) | [Order History](#) | [Change PIN Code](#) | [Contact Email](#) |

Change PIN Code

This PIN code is used to secure your device, and access mydlink website.
A PIN code must contain at least 6 characters and it is case sensitive.
Note: After changing the PIN code, you must restart your device.

Old PIN Code :

New PIN Code :

Re-type PIN Code :

Do You Know?

PIN code must contain at least 6 characters and it is case sensitive. Please remember your new PIN Code carefully.

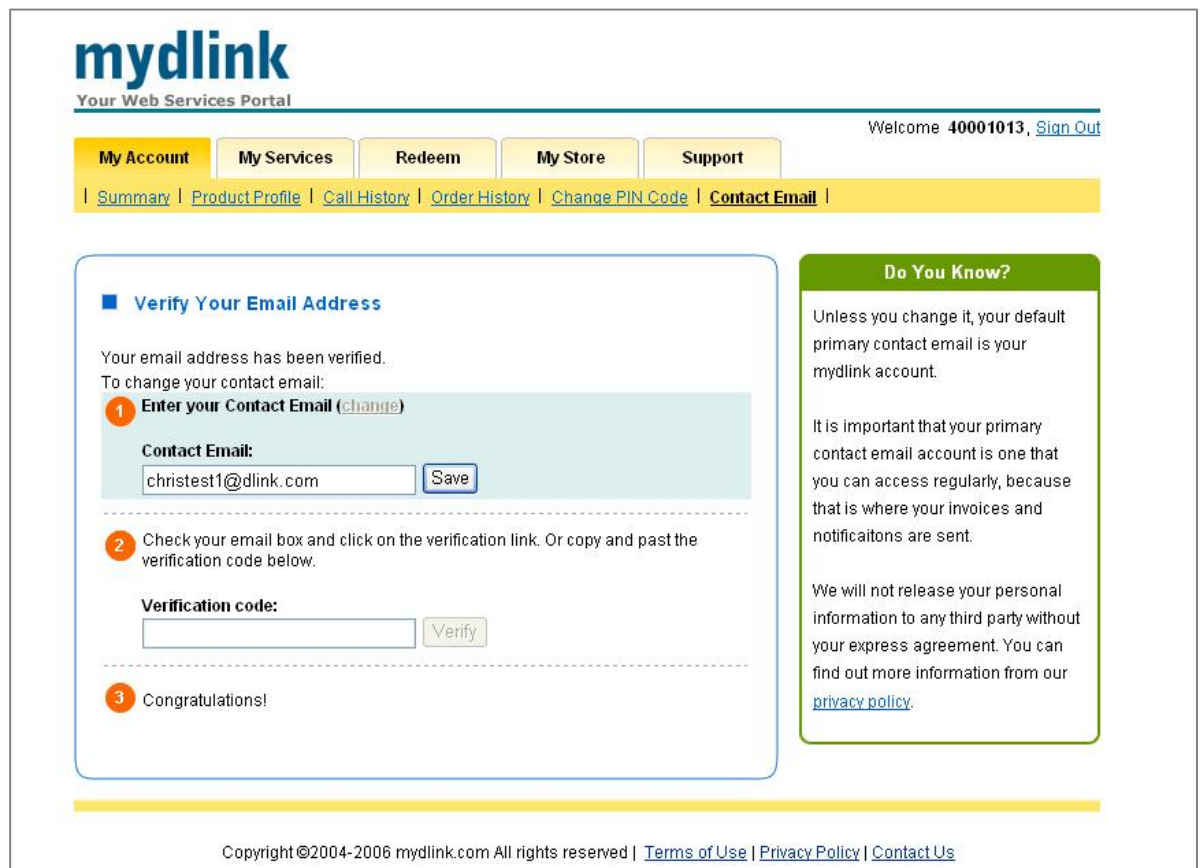
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You can navigate through the mydlink website by selecting a folder tab at the top of the page, and then a category within the selected folder from the yellow bar under the tab.

Contact Email is the next category under the **My Account** tab. Selecting this category will open the page shown below.

My Account > Contact Email

When you first Sign In to the mydlink website, you will then be asked to verify your account by entering your **Contact Email** address.



mydlink
Your Web Services Portal

Welcome 40001013, [Sign Out](#)

My Account | **My Services** | **Redeem** | **My Store** | **Support**

| [Summary](#) | [Product Profile](#) | [Call History](#) | [Order History](#) | [Change PIN Code](#) | [Contact Email](#) |

■ Verify Your Email Address

Your email address has been verified.
To change your contact email:

- 1 Enter your Contact Email ([change](#))**
Contact Email:
- 2 Check your email box and click on the verification link. Or copy and past the verification code below.**
Verification code:
- 3 Congratulations!**

Do You Know?

Unless you change it, your default primary contact email is your mydlink account.

It is important that your primary contact email account is one that you can access regularly, because that is where your invoices and notificaitons are sent.

We will not release your personal information to any third party without your express agreement. You can find out more information from our [privacy policy](#).

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You can navigate through the mydlink website by selecting a folder tab at the top of the page, and then a category within the selected folder from the yellow bar under the tab.

Selecting the **My Services** tab will open the page shown below.

My Services > Call Forwarding

You can configure the **My Services** page to forward VoIP phone calls to another mydlink account, a SIP number, or a PSTN number. You must have TelTel credits to use the **Call Forwarding** feature, and the forwarded calls will be billed at the TelTel-Out rate.

Enter the appropriate number or account information in the **Forward Calls to:** fields, as shown in the page below.

mydlink
Your Web Services Portal

Welcome **40001000**, [Sign Out](#)

My Account **My Services** **Redeem** **My Store** **Support**

[Call Forwarding](#) | [Contact Management](#) |

■ Call Forwarding

You can transfers calls to your account to any destination you specify.
Note that you must have TelTel credits to use Call-Forwarding (TelTel-Out rate).

A forwarding destination can be a phone number, a mydlink account email, or an mydlink Number.
Phone number: +country code / area code /number (e.g., +13029382930)

Forward calls to :

☒ 1.

☒ 2.

☐ 3.

Do You Know?

You must have TelTel credits to use Call-Forwarding. Calls forwarded to you will be charged based on the TelTel-Out rate of your device.

So if you set a regular US number as your call forwarding number, you will be billed US TelTel-Out rate, whether it is a call from a friend in New York or from Paris.

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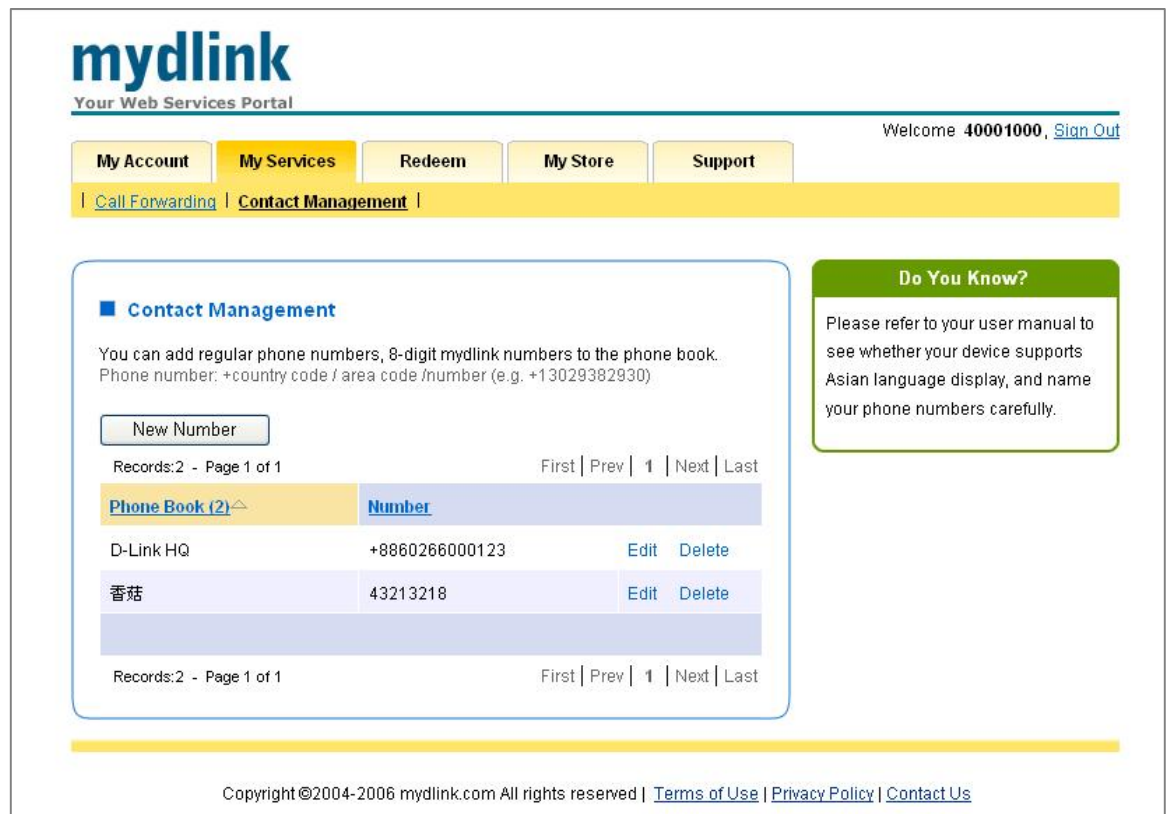
In order for calls to be forwarded, you must put a check mark in the box in front of the entry and click the **Submit** button. If you check more than one entry, calls will be simultaneously forwarded to all selected numbers. Also, since calls forwarded to ordinary (PSTN) phone numbers are charged at the applicable TelTel Out rate, you must also have sufficient calling credit (Bonus credits or TelTel credits) to complete the calls.

You can navigate through the mydlink website by selecting a folder tab at the top of the page, and then a category within the selected folder from the yellow bar under the tab.

Contact Management is the next category under the **My Services** tab. Selecting this category will open the page shown below.

My Services > Contact Management

The **Contact Management** page – shown below – allows you to add, store, edit, and delete telephone numbers (both IP and PSTN) to and from your handset **ContactList**. The current contents of your phone book are displayed as shown on the webpage below.



mydlink
Your Web Services Portal

Welcome **40001000**, [Sign Out](#)

[My Account](#) [My Services](#) [Redeem](#) [My Store](#) [Support](#)

[Call Forwarding](#) | [Contact Management](#) |

Contact Management

You can add regular phone numbers, 8-digit mydlink numbers to the phone book.
Phone number: +country code / area code / number (e.g. +13029382930)

[New Number](#)

Records:2 - Page 1 of 1 First | Prev | 1 | Next | Last

Phone Book (2)	Number		
D-Link HQ	+8860266000123	Edit	Delete
香菇	43213218	Edit	Delete

Records:2 - Page 1 of 1 First | Prev | 1 | Next | Last

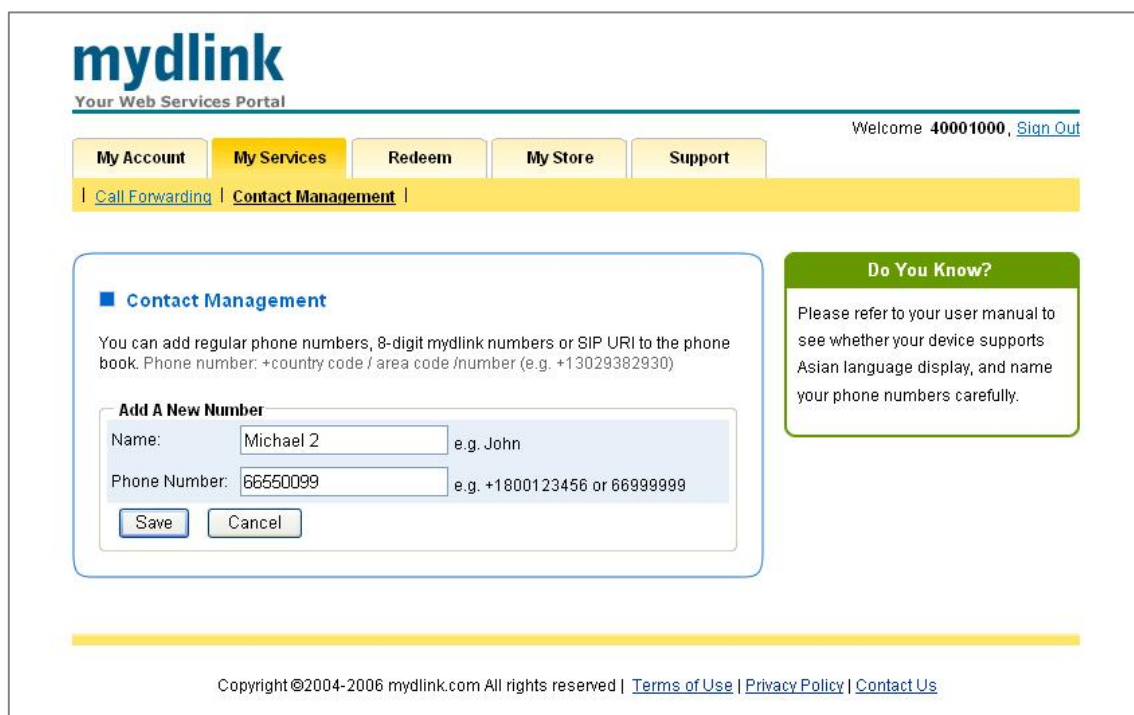
Do You Know?
Please refer to your user manual to see whether your device supports Asian language display, and name your phone numbers carefully.

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Click the **New Number** button to open the **Contact Management / Add a New Number** webpage – shown on the next page.

Contact Management Note: You may enter a maximum of 100 entries in the Contact Management page.

To add a new number to your phone book, enter a name in the **Name** field and the phone number in the **Phone Number** field. The name can be any name you want to use to identify this phone book entry.



The screenshot shows the mydlink website's 'Contact Management' page. At the top, there's a navigation bar with links like 'My Account', 'My Services', 'Redeem', 'My Store', and 'Support'. Below this, a yellow banner highlights 'Call Forwarding' and 'Contact Management'. The main content area is titled 'Contact Management' and includes a brief explanation of what can be added to the phone book. A form titled 'Add A New Number' has two input fields: 'Name' (with 'Michael 2' entered) and 'Phone Number' (with '66550099' entered). To the right of the form is a 'Do You Know?' box with a green header and text about user manuals. At the bottom of the form are 'Save' and 'Cancel' buttons. A footer contains copyright information and links to 'Terms of Use', 'Privacy Policy', and 'Contact Us'.

The Phone Number can be an 8-digit mydlink number – for a contact to someone who also has a D-Link IP device. You can also enter VoIP phone numbers in the form of a SIP URI (sip:david_AT_dlink.com@teltel.com, is an example of a SIP URI for the e-mail account david@dlink.com), or you can enter a PSTN phone number.

Click the **Save** button to save the entry into your **Contact Management** list.

ContactList Note: After you modify a contact or add a new contact using the mydlink website, you must press the **Handset Locator** button (see photo at right) on the front of the DPH-300 base station to update the ContactList information in your handset. After you press the Handset Locator button, your handset will ring and the LCD will display “---Paging---”. To stop the handset from ringing, press the Handset Locator button again. Your handset ContactList should be updated.



Handset Locator Button

Redeem

When you receive Gift Credits for your mydlink service account, you can redeem them on the **Redeem** page – shown below.

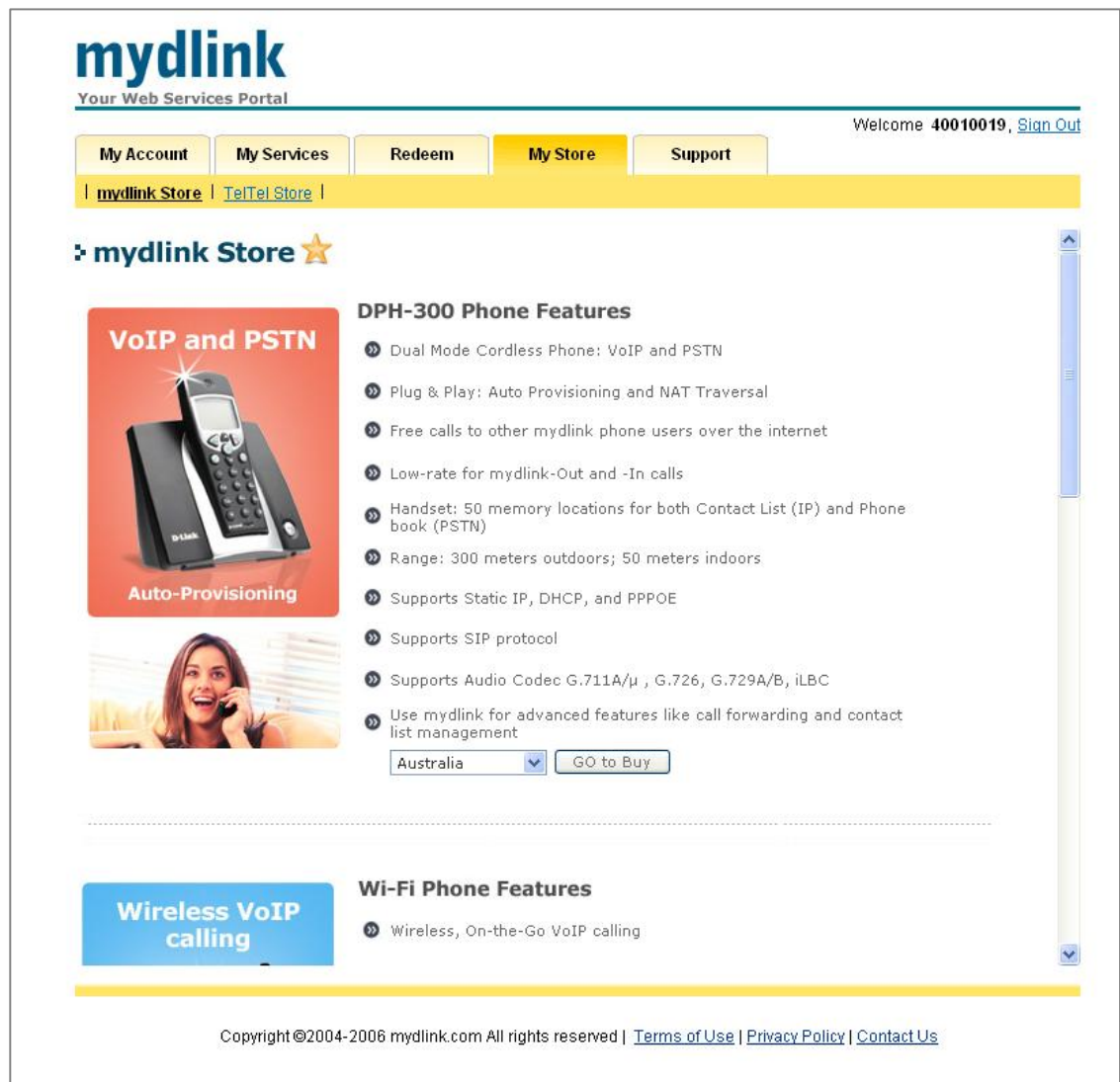
Simply enter the Serial number and PIN Code for the gift credits in the appropriate fields and click the **Submit** button. These credits will then appear on your **Summary** page.

The screenshot shows the mydlink website interface. At the top, the mydlink logo is followed by the tagline "Your Web Services Portal". A navigation bar contains five tabs: "My Account", "My Services", "Redeem" (which is highlighted in yellow), "My Store", and "Support". To the right of the tabs, a user is logged in as "40001000" with a "Sign Out" link. Below the navigation bar, the main content area is divided into two sections. The left section, titled "Redeem Gift Credits", contains instructions: "To redeem your gift credits, enter the 12-digit serial number and the 12-digit PIN code to continue." It features two input fields: "Serial number :" with three sub-fields containing "1234", "2222", and "5555"; and "PIN code :" with three sub-fields containing "3456", "7989", and "8888". Below these fields are "Submit" and "Clear" buttons. The right section, titled "Do you know?", contains a message: "If you enjoy your gift, you can purchase it at [TelTel Store](#). The more you buy, the more you save!". At the bottom of the page, a copyright notice reads: "Copyright ©2004-2006 mydlink.com All rights reserved | [Terms of Use](#) | [Privacy Policy](#) | [Contact Us](#)".

You can navigate through the mydlink website by selecting a folder tab at the top of the page, and then a category within the selected folder from the yellow bar under the tab.

My Store > mydlink Store

The **My Store** tab opens a group of pages that allow you to purchase applicable products from D-Link and services from TelTel. The first page is **My Store > mydlink Store**. You can check these pages from time to time for special discounts and service offers.



mydlink
Your Web Services Portal

Welcome **40010019**, [Sign Out](#)

[My Account](#) [My Services](#) [Redeem](#) [My Store](#) [Support](#)

[mydlink Store](#) | [TelTel Store](#) |

mydlink Store ★

VoIP and PSTN
Auto-Provisioning

DPH-300 Phone Features

- 1. Dual Mode Cordless Phone: VoIP and PSTN
- 2. Plug & Play: Auto Provisioning and NAT Traversal
- 3. Free calls to other mydlink phone users over the internet
- 4. Low-rate for mydlink-Out and -In calls
- 5. Handset: 50 memory locations for both Contact List (IP) and Phone book (PSTN)
- 6. Range: 300 meters outdoors; 50 meters indoors
- 7. Supports Static IP, DHCP, and PPPOE
- 8. Supports SIP protocol
- 9. Supports Audio Codec G.711A/μ, G.726, G.729A/B, iLBC
- 10. Use mydlink for advanced features like call forwarding and contact list management

Australia

Wireless VoIP calling

Wi-Fi Phone Features

- 1. Wireless, On-the-Go VoIP calling

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You can navigate through the mydlink website by selecting a folder tab at the top of the page, and then a category within the selected folder from the yellow bar under the tab.

The next category under the **My Store** tab is **TelTel Store**. Selecting this category will open the page shown below.

My Store > TelTel Store

You can purchase TelTel credits directly from TelTel using the mydlink website. Use the **My Store > TelTel Store** page, as shown below.

mydlink
Your Web Services Portal

Welcome **40001000**, [Sign Out](#)

[My Account](#) [My Services](#) [Redeem](#) **[My Store](#)** [Support](#)

| [mydlink Store](#) | [TelTel Store](#) |

TelTel Credits

TelTel credits are used to access many of the latest next-generation telephony services provided by TelTel:

TelTel-Out service - Call anywhere in the world. Starting from just 2 cents per minute for major countries, you can talk for far longer, more often, and hear better!

Call-Forwarding - Never miss a call again. Set a call forwarding number for free, and receive phone calls at our competitive TelTel-Out rate.

TelTel credits come at different denominations, starting from USD\$10.00. The more you buy, the more you save!

[Buy TelTel Credits](#) [TelTel-Out Rates](#)

Do You Know?
Now you can purchase different TelTel products from our TelTel Store, open 7 days a week, 24 hours a day!

TelTel Gift Card

What's better than a gift that helps you to keep in touch? TelTel's electronic gift card can be sent to anywhere in the world.

You can buy one at a time, or a whole bunch of them at once. It is all for your convenience. TelTel Gift Cards start at USD\$10.00 each.

You can navigate through the mydlink website by selecting a folder tab at the top of the page, and then a category within the selected folder from the yellow bar under the tab.

You can also purchase TelTel credits to give to a friend as a gift directly from TelTel using the mydlink website and the **My Store > TelTel Store** page.

Support > Sites

You can get various kinds of help from the **Support** section of the mydlink website, including the **Sites** page, shown below.

The **Sites** category contains links to all D-Link websites worldwide. Select the office in your country or the nearest office from the pull-down menus.



mydlink
Your Web Services Portal

Welcome **40010019**, [Sign Out](#)

[My Account](#) [My Services](#) [Redeem](#) [My Store](#) [Support](#)

| [Sites](#) | [FAQ](#) | [Download](#) | [Tutorial](#) |

Support Web Sites

To visit the Web site of any D-Link Worldwide Support, choose from the drop-down list:

Contact Information

Choose the location for which you want contact information:



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Support > FAQ

The **Support** section of the website includes the **FAQ** page, shown below. The FAQs explain certain aspects of mydlink products and services.



mydlink
Your Web Services Portal

Welcome **40010019**, [Sign Out](#)

[My Account](#) [My Services](#) [Redeem](#) [My Store](#) [Support](#)

[Sites](#) | [FAQ](#) | [Download](#) | [Tutorial](#) |

FAQ ?

DPH-300 Phone

1. What is D-Link's DPH-300 Phone? ?
2. How easy is it to setup the D-Link DPH-300? ?
3. What are D-Link Bonus Credits and how can I use them? ?
4. Do I need a PC to setup or install the DPH-300 phone? ?
5. Do I need a PC to use the DPH-300 phone? ?
6. What is the mydlink web service portal? ?
7. What is TelTel Services? ?
8. Isn't the price of the DPH-300, compared with other (non-VoIP) cordless telephones, a bit too high? ?
9. How is the DPH-300 a better VoIP telephony solution than other VoIP products like Skype, Jajah, the Gizmo Project, or the yak Phone Adapter? ?
10. Will the DPH-300 handsets offer display languages other than English? ?
11. Will the mydlink web service portal offer information and services in languages other than English? ?
12. If I want to buy a pair of DPH-300 phones and send one to a friend, family-member, or colleague in another country so that we can talk for free, can I do it? ?
13. Why is the SIP provider information pre-assigned to the DPH-300? ?

DPH-220 Voice Telephony Forwarder

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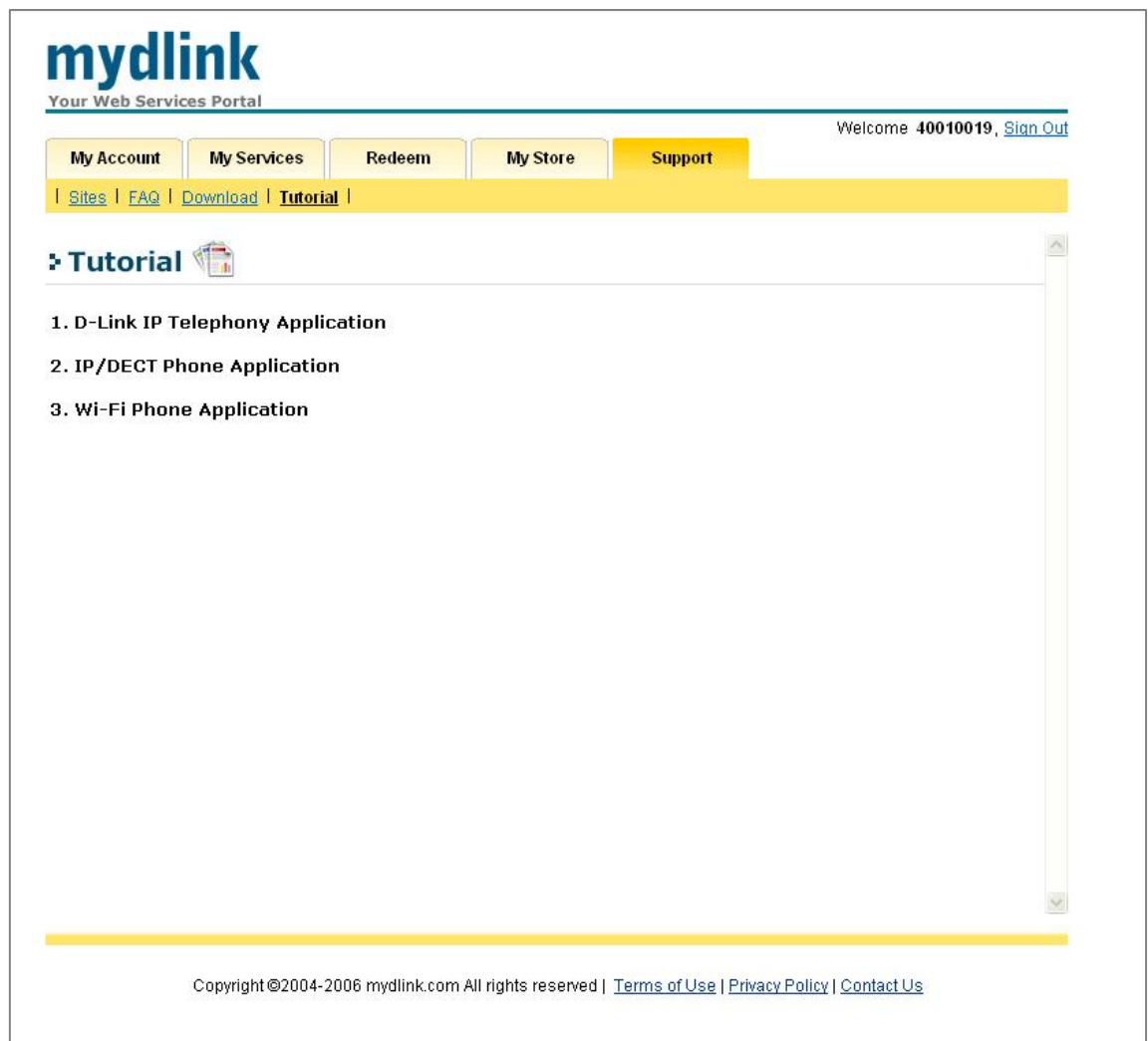
Support > Download

The **Download** category contains links to updated firmware versions, user's manuals, installation guides, and release notes that may be applicable to mydlink products.

Support > Tutorial

The **Support** section of the mydlink webpage contains **Tutorials** in the form of diagrams that illustrate the path the various types of telephone calls the DPH-300 is capable of, as well as the application and use of other mydlink devices.

You can trace the route of a call from the DPH-300 to another mydlink VoIP user (Box to Box), or the route to the PSTN (through a Trunk Gateway) or to a WiFi Phone (through a wireless AP).



Using the Configuration Page

Whenever you want to configure your DPH-300, you can access the Configuration Menu by opening the web-browser and typing in the IP Address assigned to the DPH-300. The DPH-300 has DHCP enabled by default, so its IP Address will be that assigned by the DHCP server on your LAN. This DHCP server is often contained in a multi-port Ethernet router. See your router's documentation to determine the addresses assigned by its DHCP server. If you do not know the IP address assigned to the DPH-300 (or you do not yet have a multi-port Ethernet router) you can connect to the DPH-300 by the following method:

- Connect the WAN port on the DPH-300 directly to the Ethernet port on your PC.
- Set your PC to have a static IP address of 10.1.1.2 with a subnet mask of 255.0.0.0 and a default gateway of 10.1.1.1
- Switch the DPH-300 on
- Open the web browser on your PC
- Type in the IP Address of the DPH-300 (<http://10.1.1.1>)
- Type **admin** in the User Name field
- Type **admin** in the Password field
- Click OK

The **Home > Wizard** screen will appear. Please refer to the Quick Installation Guide for more information regarding the Setup Wizard.



Home > LAN > Dynamic IP Address

Dynamic IP Address (using DHCP) is both the default option, and the most commonly used method to assign devices on a LAN IP address information when connecting to a broadband modem or multi-port Ethernet router/DHCP server.

The screenshot shows the D-Link DPH-300 web interface. The top navigation bar includes 'Home', 'Advanced', 'Tools', 'Status', and 'Help'. The left sidebar has 'Wizard' and 'LAN' buttons. The main content area is titled 'LAN Settings' and contains the following options:

- ☒ **Dynamic IP Address**: Choose this option to obtain an IP address automatically from your Internet access device. (For most Cable modem users)
- ☐ **Static IP Address**: Choose this option to set static IP information provided to you by your Internet access device.
- ☐ **PPPoE**: Choose this option if your Internet access device uses PPPoE. (For most DSL users)

Below these options is the 'Dynamic IP' section with the following fields:

- Host Name**: A text input field with '(optional)' to its right.
- MAC Address**: A field with six boxes containing '00', '0d', '88', 'cb', 'b0', and '6b', with '(optional)' below it.
- Primary DNS Address**: A field with four boxes containing '168', '95', '1', and '1'.
- Secondary DNS Address**: A field with four boxes containing '0', '0', '0', and '0', with '(optional)' to its right.

At the bottom right of the form are three buttons: a green checkmark icon labeled 'Apply', an orange 'X' icon labeled 'Cancel', and a red plus icon labeled 'Help'.

Host Name

The Host Name is optional but may be required by some ISPs. The default host name is the device name of the Router and may be changed.

MAC Address

The default MAC address is set to the WAN's physical interface MAC address on the Broadband Router. You can use the "Clone MAC Address" button to copy the MAC address of the Ethernet Card installed by your ISP and replace the WAN MAC address with the MAC address of the router. It is not recommended that you change the default MAC address unless required by your ISP.

Primary/Secondary DNS Enter a DNS Address if you wish not to use the address provided by your ISP.

Home > LAN > Static IP Address

Static IP (or Fixed IP) addressing is used when connecting to a broadband connection that requires static IP addressing or when connecting behind a router that does not offer a DHCP server function. This choice requires the input of specific IP address information.

The screenshot shows the D-Link DPH-300 web interface. The top navigation bar includes 'Home', 'Advanced', 'Tools', 'Status', and 'Help'. The 'Home' tab is selected. On the left sidebar, there is a 'Wizard' button and a 'LAN' button. The main content area is titled 'LAN Settings' and contains the following text: 'Please select the appropriate option to connect to your Internet access device.' Below this, there are three radio button options: 'Dynamic IP Address', 'Static IP Address' (which is selected), and 'PPPoE'. To the right of these options are explanatory instructions for each. Below the radio buttons, there is a section titled 'Static IP' with input fields for 'IP Address', 'Subnet Mask', 'Default Gateway', 'Primary DNS Address', and 'Secondary DNS Address'. The 'IP Address' field is pre-filled with '10.42.73.108' and has a note '(assigned by your Internet access device)'. The 'Subnet Mask' field is pre-filled with '255.0.0.0'. The 'Default Gateway' field is pre-filled with '10.254.254.251'. The 'Primary DNS Address' field is pre-filled with '168.95.1.1'. The 'Secondary DNS Address' field is pre-filled with '0.0.0.0' and has a note '(optional)'. At the bottom right of the form, there are three buttons: 'Apply' (with a green checkmark icon), 'Cancel' (with an orange X icon), and 'Help' (with a red plus icon).

IP Address – Input the IP address provided from your router configuration settings, ISP, or network administrator.

Subnet Mask – Input the Subnet mask provided from your router configuration settings, ISP, or network administrator.

Default Gateway address – Input the Gateway address provided from your router configuration settings, ISP, or network administrator.

Primary DNS Address – Input the DNS address provided from your router configuration settings, ISP, or network administrator.

Secondary DNS Address – Input a secondary DNS address (optional) provided from your router configuration settings, ISP, or network administrator.

Home > LAN > PPPoE

PPPoE (Point-to-Point Protocol over Ethernet) is used when connecting directly to a DSL modem that offers a PPPoE connection. This choice requires the input the User name and Password of your PPPoE account – provided by your ISP.

D-Link
Building Networks for People

DPH-300

IP/DECT Phone

Home Advanced Tools Status Help

LAN Settings
Please select the appropriate option to connect to your Internet access device.

☐ Dynamic IP Address
Choose this option to obtain an IP address automatically from your Internet access device. (For most Cable modem users)

☐ Static IP Address
Choose this option to set static IP information provided to you by your Internet access device.

☒ PPPoE
Choose this option if your Internet access device uses PPPoE. (For most DSL users)

PPPoE

User Name

Password

Retype Password

IP Address 10.42.73.108

Primary DNS Address

Secondary DNS Address (optional)

Auto-reconnect

PPPoE Status

☒ ☐ ☐

Apply Cancel Help

User Name – Enter your PPPoE User Name as provided by your ISP.

Password – Enter your PPPoE Password.

Primary / Secondary DNS Addresses – Enter the DNS addresses provided by your ISP.

Retype Password – Retype your PPPoE Password to confirm.

Click the **Connect** button to continue.

Advanced > VoIP > User Agent *[Read-Only]*

A SIP User Agent is a logical entity capable of handling VoIP calls between peers. This section of the web manager for the DPH-300 is for reference purposes only. You will not be able to modify and save changes to the values displayed in the fields on this page.

D-Link
Building Networks for People

DPH-300

IP/DECT Phone

Home Advanced Tools Status Help

SIP Configuration:
User Agent

SIP Configuration - User Agent

Phone Number 1000000425_AT_1.tel

Display Name 40001025

User Agent Port 5060

Authentication Username 1000000425@1.tel.c

Password *****

Retype Password *****

Apply Cancel Help

Query Registration State

Query Register Unregister

Phone Number	The telephone number assigned to the User Agent by the SIP VoIP telephony service provider.
Display Name	The name used in place of the Phone Number to identify the device or user in ContactLists and other contact indices. For the DPH-300, the display name is your 8-digit mydlink number.
User Agent Port	This selects the port number the router will listen to when determining when calls are being made.
Authentication Name	The Username used to access your SIP server and your VoIP service provider.
Password	The Password used to access your SIP server and your VoIP service provider.
Retype Password	Retype your password to confirm and click Apply .

Firmware Upgrades

The DPH-300 firmware can be upgraded two ways. First, anytime you unplug the power adapter and then restore power, the auto-provisioning process will compare the current firmware version with the latest update and upgrade the DPH-300's firmware if a newer version is available.

The other way the DPH-300 firmware can be upgraded is through the web configuration manager's Tools menu. The mydlink.com website provides firmware upgrade files for download by mydlink users. Go to mydlink and then **Support > Download > Firmware Upgrade** and download the most recent firmware upgrade for the DPH-300.

If you select the Firmware button under the Tools tab, you will be able to enter the name of the file you downloaded. Click the **Apply** button to upgrade the firmware and then go to **Tools > Reboot** to restart your DPH-300.

Note that we recommend that you use the auto-upgrade feature that is part of the auto-provisioning process.

Note: For all of the other functions in the web GUI, refer to the Help tab for guidance and information.

Making Phone Calls

Making a Call to the PSTN (regular telephone network)

If you have connected your PSTN telephone line to the DPH-300's Base, you can make a telephone call to any regular telephone using the PSTN – normal telephone usage charges will apply – by following these steps:

Pick up the handset and press the PSTN Dial Tone button. You will hear the familiar PSTN dial tone, the handset and L1 icon will appear in the handset's LCD display.

Dial the number you want to call. The handset's LCD will display the phone number as you enter it. This number is also dialed as you enter it.

To end the call, either press the On Hook button or replace the handset on the charger.

PSTN Dial Tone

Press this button to initiate a telephone call over the regular telephone line (PSTN). You will hear the familiar dial tone – and then dial the telephone number as you would on a normal telephone.



On Hook

Press this button to end a telephone call. You can also simply place the handset in the charger base to end any telephone call.

This will end both a PSTN and a VoIP telephone call.

Making a Call to the PSTN in Standby Mode

If you have connected your PSTN telephone line to the DPH-300's Base, you can make a telephone call to any regular telephone using the PSTN by following these steps:

Pick up the handset and dial the number as you normally would. You can clear any or all of the numbers you have entered by pressing the Clear button. You will hear the familiar PSTN dial tone, the handset and L1 icon will appear in the handset's LCD display.

This number will be dialed as you enter it.

To end the call, either press the On Hook button or replace the handset on the charger.

PSTN Dial Tone

Press this button to dial a telephone number (over the regular telephone line (PSTN)). You will hear the familiar dial tone – and then the handset will dial the telephone number as you entered it.

Keypad

You can just dial a regular telephone number and then press the PSTN Dial Tone button. The number will be displayed in the LCD.

On Hook

Press this button to end a telephone call. You can also simply place the handset in the charger base to end any telephone call.

This will end both a PSTN and a VoIP telephone call.

Clear

Press this button to erase a single digit of a telephone number you have entered while the handset is in Standby Mode. Holding this button for a couple of seconds will erase all of the digits of the telephone number.



Making a VoIP Call to another DPH-300 or mydlink number

You can dial another mydlink user's number directly. Simply enter the eight digit number – 66990011, for example – and press the IP button. You will be connected to that user shortly (provided they are currently connected to the Internet).

To end the call, either press the On Hook button or replace the handset on the charger.

IP

Press this button after you have dialed the mydlink number to initiate the VoIP call to another DPH-300 phone or mydlink user.

Keypad

Enter a mydlink number directly – in the same way you would dial a PSTN telephone number. Then press the IP button to initiate the call.

On Hook

Press this button to end a telephone call. You can also simply place the handset in the charger base to end any telephone call.

This will end both a PSTN and a VoIP telephone call.



Making a VoIP Call to a Member of your Contact List

You can enter mydlink or other VoIP phone numbers through the mydlink website. Numbers entered under Contact Management on the mydlink website will be entered into your handset's ContactList after you press the Handset Locator button on the DPH-300 base station. See page 42.

Pressing the Up scroll button will open the ContactList. You can then use the Up or Down arrow buttons to select a number/entry you want to call. Pressing the IP button will initiate the call to the selected listing.

To end the call, either press the On Hook button or replace the handset on the charger.

IP

Press this button to initiate the VoIP call to a number selected from your Contact List.

Up

Use this button to open the *Contact List* when the Handset is idle. Pressing this button during a telephone call will increase the volume

On Hook

Press this button to end a telephone call. You can also simply place the handset in the charger base to end any telephone call.

This will end both a PSTN and a VoIP telephone call.



Making a TelTel Out Call to a PSTN Phone

If you have sufficient TelTel Credits to cover the cost of connecting the VoIP network to the PSTN network using TelTel Out, you can make VoIP telephone calls to a regular PSTN telephone by entering the PSTN number:

+ Country Code, the Area Code, and finally the PSTN telephone number
For example +14089703318 to call into the US area code 408, telephone number 970-3318

Then press the IP button to initiate the call.

To end the call, either press the On Hook button or replace the handset on the charger.

IP

Press this button to initiate a VoIP to PSTN (TelTel Out) call.

Keypad

Enter a PSTN number directly – + followed by the country code, the area code, and finally the telephone number. Then press the IP button to initiate the call.

On Hook

Press this button to end a telephone call. You can also simply place the handset in the charger base to end any telephone call.

This will end both a PSTN and a VoIP telephone call.



Receiving a Call : PSTN or VoIP

When an incoming PSTN or VoIP telephone call is detected, the handset will ring and the L1 icon will be displayed in the LCD. If the caller can be identified, the caller's number or ContactList entry will be displayed. If the caller's telephone number is currently stored in the handset's phone book, the caller's name will be displayed along with the telephone number.

To answer the call, simply pick the handset up from the charger base and press the PSTN Dial Tone button.

To end the call, either press the On Hook button or replace the handset on the charger base.

Incoming Call LED

This red LED will flash to indicate an incoming PSTN or VoIP telephone call

IP

Press this button to answer an incoming VoIP telephone call.

PSTN Dial Tone

Press this button to dial a telephone number (over the regular telephone line (PSTN)). You will hear the familiar dial tone – and then the handset will dial the telephone number as you entered it.



On Hook

Press this button to end a telephone call. You can also simply place the handset in the charger base to end any telephone call.

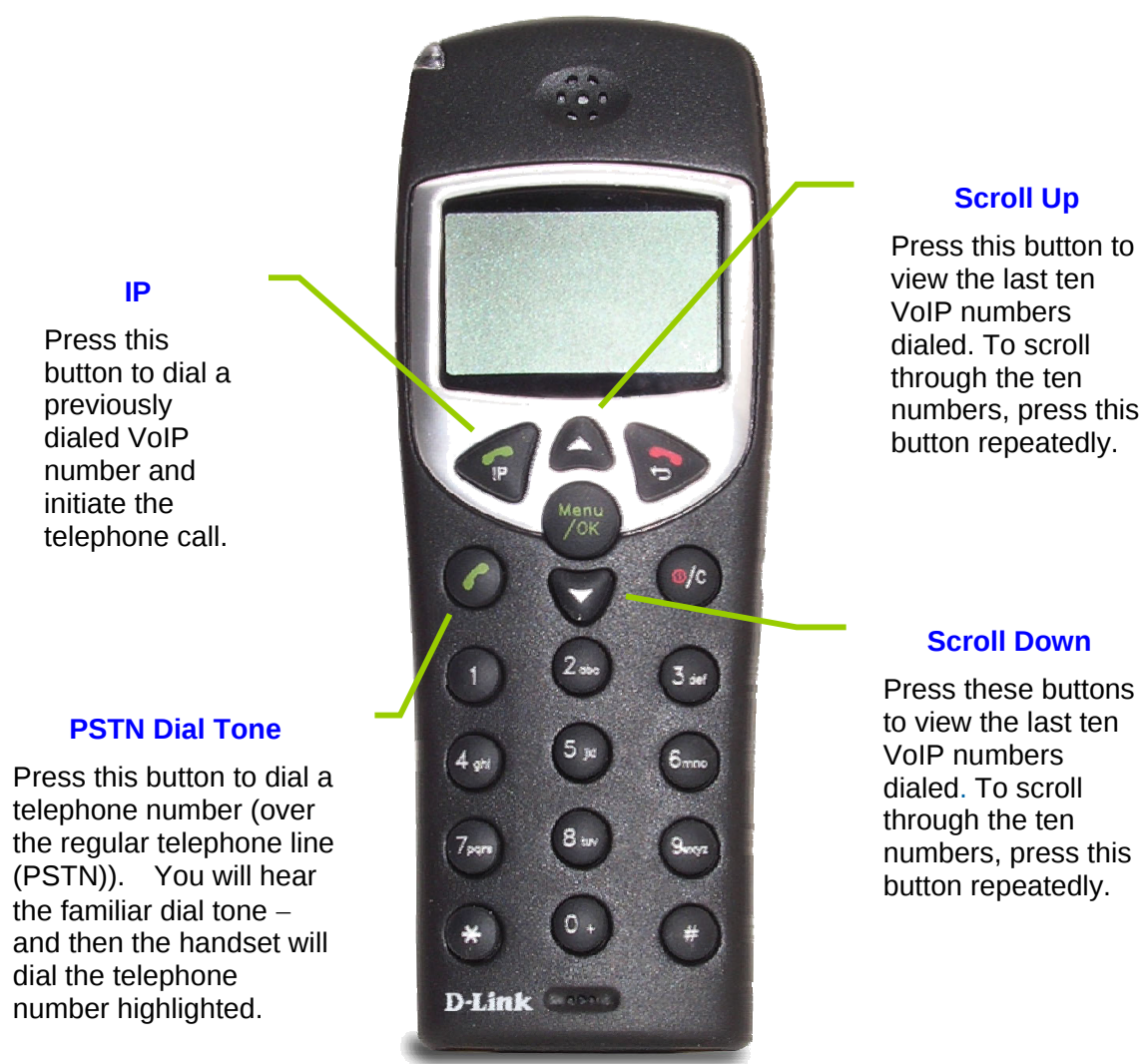
This will end both a PSTN and a VoIP telephone call.

Last Ten VoIP Numbers Dialed : Redial

The handset stores the last ten VoIP telephone numbers you have dialed. To view and retrieve the last ten numbers you have dialed, press the IP Button and then Scroll Up or Scroll Down buttons to select one of the displayed VoIP telephone numbers you want to redial.

To call the selected VoIP number, press the IP button. The Handset will then dial the selected number.

To end the call, either press the On Hook button or replace the handset on the charger.



Using the Speakerphone

While making a call, you can engage the handset's built in speaker to make both ends of the conversation audible to several people on your end of the line. To activate the speakerphone press and hold the PSTN Dial Tone button until the speakerphone icon is displayed and you can hear the activity on the line from the speaker built in to the back of the handset or the IP button until the speakerphone icon appears and then your list of IP calls. To deactivate the speakerphone, press the PSTN Dial Tone or IP button until the speakerphone icon disappears. The call then be continued using the handset normally.

IP

Press and hold this button to activate the speakerphone function for VoIP calls. To deactivate the speakerphone function, press and hold this button a second time

PSTN Dial Tone

Press and hold this button to activate the speakerphone function for PSTN calls. To deactivate the speakerphone function, press and hold this button a second time



Adjusting the Volume Level

While making a call, you can adjust the earpiece volume level from 1 to 9. A higher number indicates a higher volume level.

To adjust the volume level, press the Scroll Up or Scroll Down button during a telephone call.

Scroll Down

Press these buttons to adjust the earpiece volume level during a telephone call. Scroll Down will decrease the volume level.

Scroll Up

Press these buttons to adjust the earpiece volume level during a telephone call. Scroll Up will increase the volume level.



Calling Notes

Unless you configure your handset to use the Anykey talk feature (see page 18 for more information), incoming calls can be answered by pressing either the PSTN or IP buttons (two “green phone” buttons on the upper left side of the keypad) regardless of which type of call is being made.

When you call a mydlink number that is currently offline (that is, not connected to the Internet for some reason), there will be a long pause (30 seconds or so) before you hear a busy signal.

TelTel Out calls can not be placed to “Toll-Free” numbers in any country.

TelTel Out rates vary depending on where the call is received. See the <http://www.telstel.com/Tel-OutRates.php> webpage for a detailed table of TelTel Out phone rates.

TelTel In calling is possible from ordinary PSTN phones or cell phones using PsipTN access numbers where available. A list of current PsipTN access numbers is available at: <http://www.psiptn.org/html/services.html> Choose the country you want to call *from* and a list of cities and their local access numbers will be displayed at the bottom of the page. To make a TelTel In call, dial the PsipTN access number using an ordinary phone, then after the prompt, dial the 8-digit mydlink number of the person you want to reach.

Using the DPH-300 with D-Link Routers



D-Link Corporation	65
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Opening Ports on Routers and Gateways

The firewall security features built into most routers and gateways may prevent users from accessing the VoIP features of their DPH-300.

A router connects to the Internet through a series of numbered ports. The ports used by the DPH-300 are often blocked from access over the Internet by the firewall features of the router.

You may be able to connect to another VoIP telephone but not receive any audio. This is a typical scenario of a firewall blocking the ports needed by the DPH-300 to send audio.

If this is the case, you need to open the ports on your router to the Internet to allow access to the DPH-300.

The port numbers used by the DPH-300 are:

3478
5060
8080
9090

The router or gateway that you are using may be different from the D-Link DI-614+ wireless router example shown on the following pages. However, the general procedure for opening ports will be similar. (If you do not have a D-Link router, look for Virtual Server, Firewall Rules, Port Forwarding, Advanced or Firewall in your router's configuration utility.)

In the example that follows we begin by opening the DI-614+ Web configuration utility and going to **Advanced > Virtual Server**.

Follow the steps on the following pages to open the ports on your router for successful operation of the DPH-300.

How to Open Ports on a Router

Virtual Server

Virtual Server is used to allow Internet users access to LAN services.

☒ Enabled ☐ Disabled

Name:

Private IP:

Protocol Type:

Private Port:

Public Port:

Schedule: ☒ Always

☐ From time : AM to : AM

day to

Name	Private IP	Protocol	Schedule
☐ i2eye	192.168.0.101	TCP 1720/1720	always
☐ i2eye	192.168.0.101	IP (O) 15328/15328	always
☐ i2eye	192.168.0.101	IP (O) 15329/15329	always

A total of 7 ports must be opened for the DPH-300 to work with most routers or firewalls. To open these ports, please do the following:

A. Click Enabled

B. Give the Virtual Server a Name (such as i2eye)

C. Under Private IP, enter the IP address obtained from the DPH-300

(How to obtain an IP address from the DPH-300: Turn the DPH-300 on. Highlight the Settings button on the Main Screen. Navigate to Settings>Network>Network Address >IP address)

D. Under Protocol Type, choose **Both** (TCP and UDP)

E. Under Private Port and Public Port, enter **3478**

F. Under Schedule, click **Always**

G. Click Apply to save this entry

You have now completed the entering of one port to be opened. You will need to open six more ports.

Repeat steps **A** through **G** five more times for each one of the following five ports: **5060, 8080, and 9090**.

You have now completed the opening of the 4 ports. Your DPH-300 is ready to use with your router or gateway!

(Important: Not all routers and gateways are the same. Please refer to your user product's manual for specific instructions on opening ports).

Network Configuration

From the following sections, choose the heading that best applies to your equipment or networking configuration.

Network with Multiple Public IP Addresses

A Public IP address is visible on the Internet. (Most commonly found in business environments.)

Recommended Procedure: If there is an available public IP address, simply enter the IP address, subnet mask, and gateway into the applicable fields in the **Network Settings** screen. If the network has a DHCP server, select the checkbox under the **Network Settings** that says, "Automatically obtain IP address." (The network administrator will be able to tell you whether or not the network has a DHCP server.)

Potential Issues: Some firewalls are configured in a way that could potentially restrict H.323 data flow. Most current corporate firewalls are H.323 compliant. If this is the case, configuring the firewall is accomplished by simply opening the necessary H.323 ports into the network:

Port 1720 (TCP)

Ports 15328 – 15333 (UDP & TCP)

If your particular firewall does not have this option, consult the firewall's documentation on how to open specific ports needed for H.323 communications.

Broadband Modem and One PC

(This is the most common scenario found in a home or home office that currently has one PC connected to its broadband modem.)

Recommended Procedure: Request from your ISP an additional public IP address. With a second public IP address, the DPH-300 will be visible to the outside world just as the existing PC. The ISP can either assign a static IP address or allow you to dynamically request the IP address via DHCP. Follow the instructions in Broadband Modem Only section, below, depending on what your ISP requires.

Because most broadband modems have only one Ethernet port, it will be necessary to install a hub or switch between the modem and the rest of the network. Using an Ethernet cable, connect the modem's Ethernet port to the applicable uplink port on the hub. Once that is done, you can plug the PC and DPH-300 into any other available port.

Broadband Modem, Multiple PC's, and a Hub

Commonly found in small offices, home offices, or homes with more than one PC where multiple public IP addresses are available.

In order to install the DPH-300 as another device behind a hub assign an available public IP address to the DPH-300.

Refer to the Broadband Modem Only section, below, for detailed installation instructions.

Broadband Modem, Multiple PC's, and a Router

Commonly found in small offices, home offices, or homes with more than one PC where only one public IP address is available.

Refer to the Opening Ports on Routers and Gateways section starting on page 51 for detailed installation instructions.

Broadband Modem Only

This section applies only in the instance that the broadband connection is used exclusively with the DPH-300 and there are no PCs or other devices connected to the broadband modem. Broadband cable modems allow this type of installation.

Recommended Procedure: Many ISPs act as DHCP servers and dynamically assign a public IP address whenever the modem requests one. If your ISP has a DHCP server, select the checkbox under the Network Settings. By choosing this option, you are not required to know the IP address, gateway, subnet mask, or DNS numbers. They will all be filled in automatically.

If your ISP offers Fixed IP addresses (also called Static IPs), all of the networking values will have to be manually entered. Simply enter the public IP address, subnet mask, gateway, and DNS numbers given to you by the ISP into the appropriate network settings fields.

If you have a DSL modem, which offers a PPPoE connection, choose the PPPoE option on the network settings screen. Fill in your username and password to authenticate.

Potential Issues: In order for the DPH-300 to function properly over the Internet, there must exist a public IP address for the world to see. If your ISP is acting as a NAT and assigning private IP addresses, you will have to request a public IP address in order for your DPH-300 to be able to receive calls.

Troubleshooting

1. The DPH-300 will not make a call using a phone number

- „ Check that you did not misdial the number.
- „ The phone is not connected to the Internet.
The phone is not registered with the D-Link IP Network Manager. It may take the phone a few minutes to register. Verify all network settings, including DNS.

Far side of the call is not registered with the D-Link IP Network Manager. If you are calling someone who has an videoconference device in addition to a DPH-300, you may have to make direct IP calls to them.

2. The DPH-300 can't make direct IP calls

- „ The phone is not connected to the Internet. See the Internet Connection sections of this usermanual.
- „ The person you are trying to call is unreachable. Ensure the IP address of the person you are trying to call is correct.

3. The DPH-300 produces an off-hook signal

- „ The telephone is off the hook. Hang up the phone.

4. The DPH-300 produces a fast busy signal

- „ Person you are trying to call is not registered with the D-Link IP Network Manager. Call the person using direct IP or wait until the person is registered with the D-Link IP Network Manager.
- „ Person you are trying to call is in a call or has rejected your call. Try your call at a later time.

5. DPH-300 doesn't ring with an incoming call

- „ Telephone cable is not properly plugged into the wall or the DPH-300. Verify that the cable is connected properly.

6. Phone freezes-up while answering a call

- „ Phone is not functioning properly behind a firewall. See page 65 "Router Port Configuration".

7. No audio in call

- „ Port forward the appropriate ports to the phone. The phone needs ports 1720 (TCP) and ports 15328-15333 (TCP and UDP) open to function properly. See the section Opening Ports on Routers and Gateways on page 58, or consult your router's documentation or your network administrator for help on doing this.

Glossary

Bandwidth: A measure of the rate at which data can be sent and received through a network. This value is usually given in bits per second (bps) or mega bits per second (Mbps).

CIF (Common Intermediate Format): An intermediate video format. When DPH-300 video is transmitted over a network, the sizes will be CIF, QCIF, or SQCIF. The VideoPhone will default to CIF. CIF resolution is 352 x 288.

DHCP (Dynamic Host Configuration Protocol): A protocol that network devices use to obtain an IP address, subnet mask, gateway and DNS addresses automatically. A DHCP server can be a router, ISP server, or PC running Internet connection sharing. See Static IP address.

Directory Service: A service that allows users to make videoconferencing calls with telephone numbers. It does this by correlating telephone numbers to actual public IP addresses.

DMZ (Demilitarized Zone): Devices set up to be in the router's DMZ will see all network traffic.

DNS (Domain Name System): A system used to translate computer names into IP addresses. For example, a DNS server would translate www.dlink.com into 64.7.210.132.

DSL (Digital Subscribers Line): A technology that delivers digital information at a high speed through a user's telephone line. The most common DSL is ADSL (Asymmetrical Digital Subscribers Line) where the download speed is usually much higher than the upload speed.

Dynamic IP address: An IP address for a particular network device (PC, VideoPhone, router) that is dynamically assigned by a router or ISP and will not remain the same from session to session. See DHCP.

Ethernet: The port on the back of the DPH-300 VideoPhone that is used to send and receive data over a network.

Far side: The remote connection of the videoconference. Your connection is the Local Connection.

Firewall: A security mechanism placed between networks, which restricts certain types of data to devices behind the firewall.

H.323: Standard defining videoconferencing over the Internet.

Home Gateway: A term commonly interchanged with router. Also called a residential gateway.

IP address (Internet Protocol Address): An IP address is a number that identifies a computer connected to the Internet. Every computer that is connected to the Internet must have a unique IP address. An IP address consists of four sections separated by periods. Each section contains an 8-bit value represented as a number ranging from 0 to 255.

ISP (Internet Service Provider): A commercial organization that provides subscribers with access to the Internet.

LAN (Local Area Network): A network that is designed to span small distances. These are most commonly used in small buildings, businesses and homes with multiple PCs. See WAN.

NAT (Network Address Translation): A technology that allows multiple network devices to share the same IP address. NAT devices forward all incoming and outgoing information to the correct network devices. Most NAT devices have firewall capabilities.

Port Forwarding: The router will forward public-side incoming information to a specified device on the private side. The router will forward only the data that is received on the specified ports. This is usually set through the advanced settings in the router's web interface. Also known as **Virtual Server** or **Firewall Rules**.

Ports: A port is a specified path in which data travels. Each type of data that is transmitted over the Internet travels down a specified port. A router will forward information from one port to another, and a firewall will open only a specified number of ports.

Private IP address: An IP address that is behind a NAT, which is not visible to the Internet. The preferred ranges for private IP address are either 192.168.x.x or 10.0.0.x.

Public IP address: An IP address that is not behind a NAT router. This IP address is visible from the Internet.

QCIF (Quarter Common Intermediate Format): An intermediate video format. QCIF resolution is 176x144. The DPH-300 VideoPhone will send QCIF-sized video only if the remote endpoint cannot decode CIF.

QoS (Quality of Service): Allows guaranteed bandwidth and packet delivery between network devices over a network.

Router: A device that attaches two or more network devices and forwards data accordingly. Most consumer type routers act as DHCP servers, NATs and firewalls. **SLIC (Subscriber-Line Interface Circuit):** Provides a phone's analog dial tone, busy tone, dual-tone multiple-frequency (DTMF) generation and decoding, caller ID and ring- signaling functions. The SLIC allows the DPH-300 to work with a standard telephone without connecting to the phone system.

SQCIF (Subquarter Common Intermediate Format): An intermediate video format. SQCIF resolution is 128x96. The DPH-300 VideoPhone will send SQCIF-sized video only if the remote endpoint cannot decode CIF or QCIF.

Static IP address: An IP address for a particular network device (PC, VideoPhone, router) that doesn't change. See DHCP.

TCP (Transmission Control Protocol): An Internet protocol used by the DPH-300 VideoPhone in addition to UDP.

UDP (User Datagram Protocol): The Internet protocol most commonly used by the DPH-300 VideoPhone to send and receive audio and video data.

WAN (Wide Area Network): A network that is designed to span large distances. See

Technical Specifications

Ethernet Ports

Two Ports for Fast Ethernet Connections

Standard Compliance

Rate Adaptation

Cordless Phone Interface

Standard Compliance

Frequency

RF Channels

Modulation

Voice Coding

Power Requirement:

External Power Adapter

Embedded Factory Reset Switch

Telephony Support:

Call Control Protocol

CODEC

Echo Cancellation

Configuration/Management:

DHCP (Dynamic Host

Configuration Protocol)

Embedded Web Server

Configuration Restore/Backup

TELNET

TFTP Client

Performance Monitor

Security:

User Authentication Administration

SIP Authentication

VoIP NAT Traversal

RJ-45, Auto MDI/MDI-X, 10/100
Mbps

IEEE 802.3 for 10 Mbps Ethernet
IEEE 802.3u for 100 Mbps Ethernet
10/100 Mbps, Auto-Negotiation

DECT (Digital Europe Cordless
Telecommunication)
GAP (Generic Access Profile)

1880-1900 MHz

10 Channels

GFSK

ADPCM < 32K bit/s t.

AC Power Adapter, AC 9V, 1 A
On rear of Base Unit

SIP (RFC3261)

G.711 (A-law and U-law)

G.726

G.729A

iLBC

G.168

DHCP Client (RFC2131)

For firmware upgrade and
configuration file download

Username/Password control for
TELNET and WEB configuration

SIP Authentication with MD5
password encryption

SIP/STUN

Safety/EMI Certifications: UL/CUL	
EMI Certification: FCC Class B BSMI Class B CE Class B	
Environmental Specifications: Operating Temperature Storage Temperature Operating Humidity Range	0° to 40°C -10° to 55°C 5 to 95%, Non-condensing

Country Codes

Code	Country	Code	Country
93	Afghanistan	253	Djibouti
355	Albania	767	Dominica
213	Algeria	809	Dominican Republic
684	American Samoa	593	Ecuador
376	Andorra	20	Egypt
244	Angola	503	El Salvador
809	Anguilla	240	Equatorial Guinea
268	Antigua	291	Eritrea
54	Argentina	372	Estonia
374	Armenia	251	Ethiopia
297	Aruba	500	Falkland Islands
247	Ascension Island	679	Fiji
61	Australia	358	Finland
43	Austria	33	France
994	Azerbaijan	596	French Antilles
242	Bahamas	594	French Guiana
973	Bahrain	241	Gabon
880	Bangladesh	220	Gambia
246	Barbados	995	Georgia
375	Belarus	49	Germany
32	Belgium	233	Ghana
501	Belize	350	Gibraltar
229	Benin	30	Greece
809	Bermuda	299	Greenland
975	Bhutan	473	Grenada
591	Bolivia	671	Guam
387	Bosnia and Hercegovina	502	Guatemala
267	Botswana	224	Guinea
55	Brazil	245	Guinea-Bissau
284	British Virgin Islands	592	Guyana
673	Brunei	509	Haiti
359	Bulgaria	504	Honduras
257	Burundi	852	Hong Kong
855	Cambodia	36	Hungary
237	Cameroon	354	Iceland
1	Canada	91	India
238	Cape Verdi	62	Indonesia
345	Cayman Islands	98	Iran
236	Central African Republic	964	Iraq
235	Chad	353	Ireland
56	Chile	972	Israel
86	China	39	Italy
57	Colombia	225	Ivory Coast
269	Comoros and Mayotte	876	Jamaica
242	Congo	81	Japan
682	Cook Islands	962	Jordan
506	Costa Rica	7	Kazakhstan
385	Croatia	254	Kenya
53	Cuba	965	Kuwait
357	Cyprus	856	Laos
420	Czech Republic	371	Latvia
45	Denmark	961	Lebanon
246	Diego Garcia	266	Lesotho

Code	Country	Code	Country
231	Liberia	381	Serbia and Montenegro
218	Libya	248	Seychelles
423	Liechtenstein	232	Sierra Leone
370	Lithuania	65	Singapore
352	Luxembourg	421	Slovakia
853	Macao	386	Slovenia
389	Macedonia	677	Solomon Islands
261	Madagascar	252	Somalia
265	Malawi	27	South Africa
60	Malaysia	82	South Korea
960	Maldives	34	Spain
223	Mali	94	Sri Lanka
356	Malta	290	St. Helena
692	Marshall Islands	869	St. Kitts/Nevis
222	Mauritania	249	Sudan
230	Mauritius	597	Suriname
52	Mexico	268	Swaziland
373	Moldova	46	Sweden
33	Monaco	41	Switzerland
976	Mongolia	963	Syria
473	Montserrat	886	Taiwan
212	Morocco	7	Tajikistan
258	Mozambique	255	Tanzania
95	Myanmar (Burma)	66	Thailand
264	Namibia	228	Togo (Togolese Republic)
674	Nauru	690	Tokelau
977	Nepal	676	Tonga
31	Netherlands	216	Tunisia
599	Netherlands Antilles	90	Turkey
869	Nevis	688	Tuvalu (Ellice Islands)
687	New Caledonia	256	Uganda
64	New Zealand	380	Ukraine
505	Nicaragua	971	United Arab Emirates
227	Niger	44	United Kingdom
234	Nigeria	598	Uruguay
683	Niue	1	USA
850	North Korea	7	Uzbekistan
967	North Yemen	678	New Hebrides
47	Norway	39	Vatican City
968	Oman	58	Venezuela
92	Pakistan	84	Viet Nam
680	Palau	681	Wallis and Futuna
507	Panama	685	Western Samoa
675	Papua New Guinea	381	Yemen
595	Paraguay	243	Zaire
51	Peru	260	Zambia
63	Philippines	263	Zimbabwe
48	Poland		
351	Portugal		
974	Qatar		
40	Romania		
7	Russia		
250	Rwanda		
670	Saipan		
378	San Marino		
239	Sao Tome and Principe		
966	Saudi Arabia		
221	Senegal		

Contacting D-Link

Support for D-Link products is available over the internet 24 hours a day at the following web addresses:

USA	dlink.com	Greece	dlink.gr
Canada	dlink.ca	Luxembourg	dlink.be
Europe (UK)	dlink.co.uk	Poland	dlink.pl
Germany	dlink.de	Hungary	dlink.hu
France	dlink.fr	Singapore	dlink-intl.com
Netherlands	dlink.nl	Australia	dlink.com.au
Belgium	dlink.be	India	dlink.co.in
Italy	dlink.it	Dubai, Egypt	dlink-me.com
Sweden	dlink.se	Turkey	dlink.com.tr
Denmark	dlink.dk	Israel	dlink.co.il
Norway	dlink.no	Latin America	dlink.cl
Finland	dlink.fi	Brazil	dlinkbrasil.com.br
Spain, Portugal	dlink.es	South Africa	d-link.co.za
Czech Republic	dlink.cz	Russia	dlink.ru
Switzerland	dlink.ch	China	dlink.com.cn
		Taiwan, HQ	dlink.com.tw

When contacting technical support, please provide the following information:

- Serial number of the unit
- Model number or product name
- Software type and version number

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CE Mark Warning:

This is a Class B product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.

FCC Statement:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communication. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.