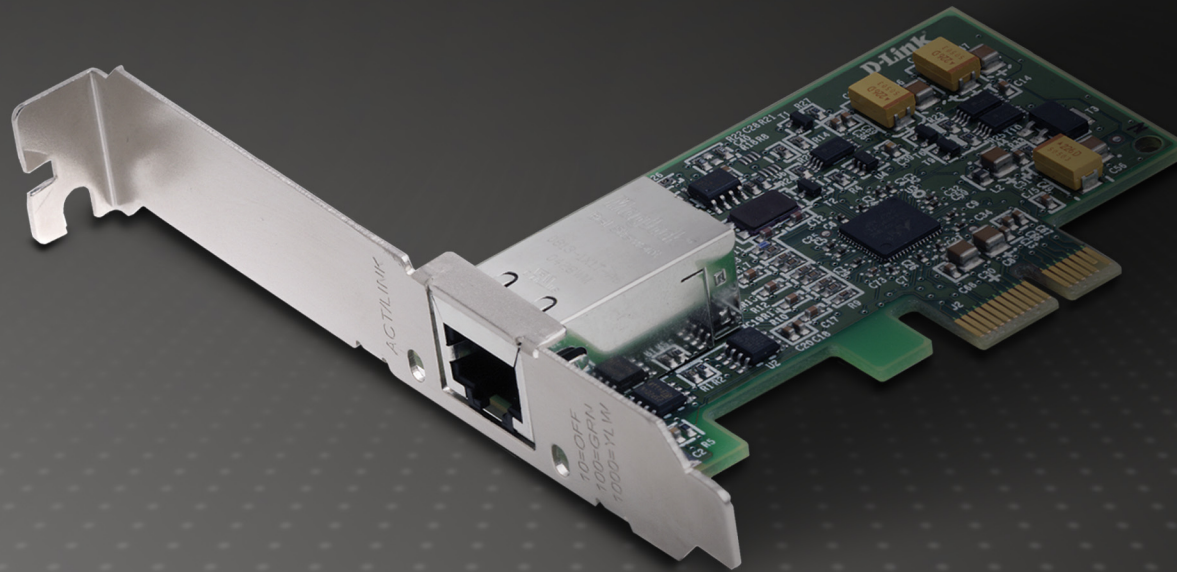


USER MANUAL

DGE-560T

VERSION 1.1



Preface

D-Link reserves the right to revise this publication and to make changes in the content hereof without obligation to notify any person or organization of such revisions or changes.

Manual Revisions

Revision	Date	Description
1.0	May 1, 2006	• DGE-560T Revision A1/A2
1.1	September 26, 2007	• Added Windows Vista™ support • Added PC Agent (SMTP) utility • Added Network Control Program

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Table of Contents

Preface.....	ii	Configuration	17
Manual Revisions	ii	Configure your Adapter.....	17
Trademarks	ii	Troubleshooting.....	20
Product Overview	1	Network Control Program	25
Package Contents.....	2	Advanced Adapter Configuration	31
System Requirements	2	SNMP Agent.....	33
Features.....	3	Installing the SNMP Agent.....	33
Hardware Overview	4	Using the SNMP Agent.....	36
Connections and LEDs	4	Networking Basics	40
Installation.....	5	About Gigabit Ethernet	40
Install the Drivers	5	About Auto-negotiation	40
Hardware Installation	6	Technical Specifications.....	42
Alternate Installation	7	Technical Support	43
Windows® 2000.....	7	Warranty	44
Windows® XP and Server 2003 (32-bit)	8	Registration.....	50
Windows® XP and Server 2003 (64-bit)	9		
Windows® Vista™ (32/64-bit)	10		
Linux	11		
Novell Network.....	13		
Novell Network 5.10.....	13		
Novell Network 6.x.....	14		
FreeBSD	15		
Verify Installation.....	16		

Product Overview

Thank you for choosing the D-Link DGE-560T Gigabit PCI Express Ethernet Adapter, the value leader among Fast Ethernet/Gigabit Ethernet adapters. This chapter provides a general description of D-Link DGE-560T features, with a summary of features at the end of the chapter. Installation instructions are provided in the following chapters.

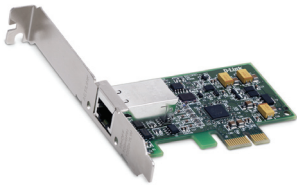
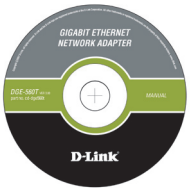
With the D-Link DGE-560T, your PC can be connected to an Ethernet, Fast Ethernet, or Gigabit Ethernet network. The PC must be equipped with a PCI Express x1 expansion slot; alternatively the D-Link DGE-560T can be installed in a PCI Express x4, x8 or x16 expansion slot.

The D-Link DGE-560T automatically detects the parameters of its Ethernet environment, and automatically negotiates and determines its own speed and duplex settings as required for maximum performance within the environment. (The auto-negotiation function is effective only when the D-Link DGE-560T is connected to the network by a device (switch or hub) that also has auto-negotiation functionality.)

Inside its compact form, the D-Link DGE-560T holds an Ethernet controller, network processing interface, and a direct port for connecting an RJ-45 network cable. The D-Link DGE-560T requires no pre-installation setup—simply insert it into the PCI Express slot (for detailed information, please refer to the Installation Guide).

The D-Link DGE-560T is supplied with an RJ-45 receptacle, which receives the network cable. The direct port features full LED display for linkage and activity states, speed, and transmitting and receiving data.

Package Contents

D-Link DGE-560T Gigabit PCI Express Ethernet Adapter	
CD-ROM	

System Requirements

Minimum System Requirements	<p>PC with the following:</p> <ul style="list-style-type: none">• Windows® 2000/2003/XP/Vista™, Linux (2.4.13 and higher), Netware 5.10 and Netware 6.x., or FreeBSD 5.x (Intel x86)• Pentium 150MHz or Faster• 64MB RAM• 32MB Free Hard Drive Space• One Available PCI Express Slot (x1, x4, x8, or x16)• CD-ROM Drive
------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Features

Features of the DGE-560T Gigabit Cardbus PC Card:

- Complies with IEEE 802.3 10BASE-T Ethernet standard
- Complies with IEEE 802.3u 100BASE-TX Fast Ethernet standard
- Complies with IEEE 802.3ab/802.3z 1000BASE-T Gigabit Ethernet standard
- Complies with IEEE 802.3ad Link Aggregation Control Protocol standard
- Complies with IEEE 802.3x Flow-Control and Auto-Negotiation standard
- Complies with IEEE 802.1p Quality of Service standard
- Complies with IEEE 802.1q/802.3ac VLAN/VLAN Tagging standard
- Complies with PCI Express 1.0a specification
- Supports Crossover Detection & Auto-Correction
- Supports Jumbo Frames (up to 9K frame size)
- Built-in Transmit/Receive FIFO data buffer (48K)
- No manual setup switches—automatically configured by software
- Low power consumption

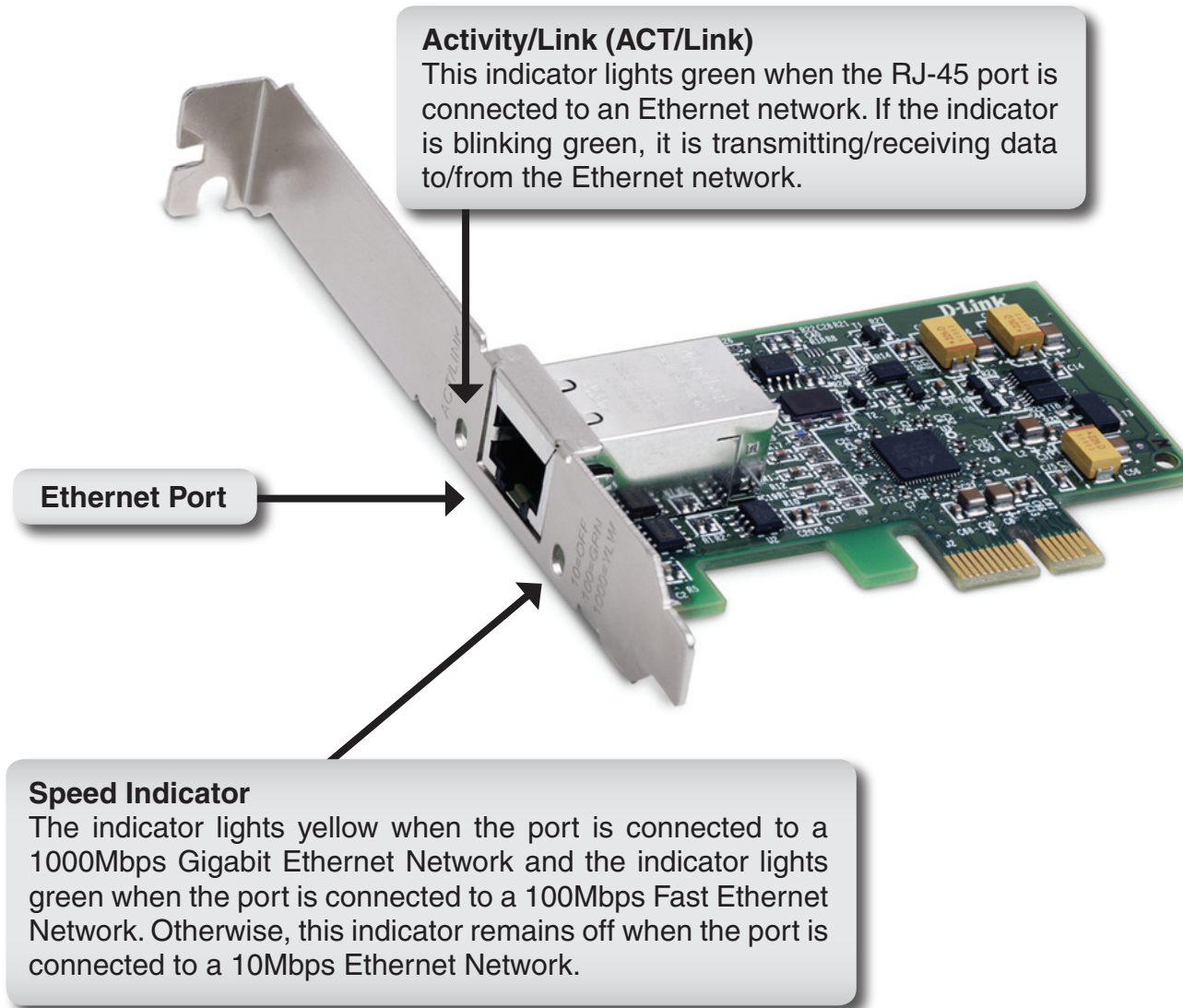
Supported driver list:

- Windows Vista™ x86
- Windows Vista™ x64
- Microsoft Windows® XP (service pack 2)
- Microsoft Windows® Server 2003
- Microsoft Windows® 2000 (service pack 4)
- Linux kernel 2.4.13 and higher stable version
- Microsoft Network Client for DOS (NDIS 2 driver)
- NetWare Client for DOS (ODI driver)

Note: The D-Link Network Control Program is not supported under Windows Vista™.

Hardware Overview

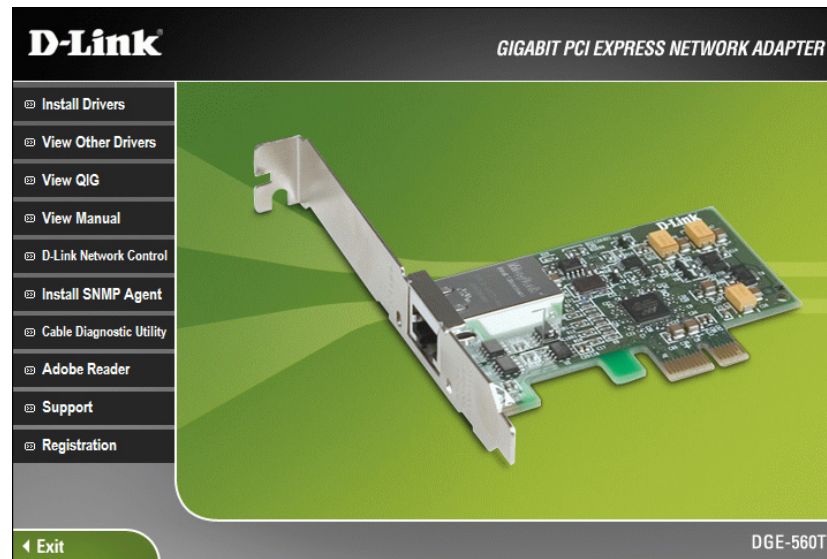
Connections and LEDs



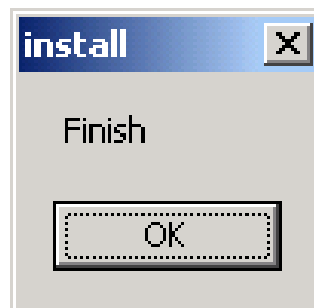
Install the Drivers

1. With your computer on, insert the D-Link CD into your CD-ROM Drive. When the autorun screen appears, click **Install Drivers**. If you are installing this adapter in Linux, Netware, or FreeBSD, click **View Other Drivers**.

Note: If the Autorun CD function does not automatically start on your computer, go to **Start > Run**. In the run command box type “**D:\Autorun.exe**” (where **D:** represents the drive letter of your CD-ROM drive).

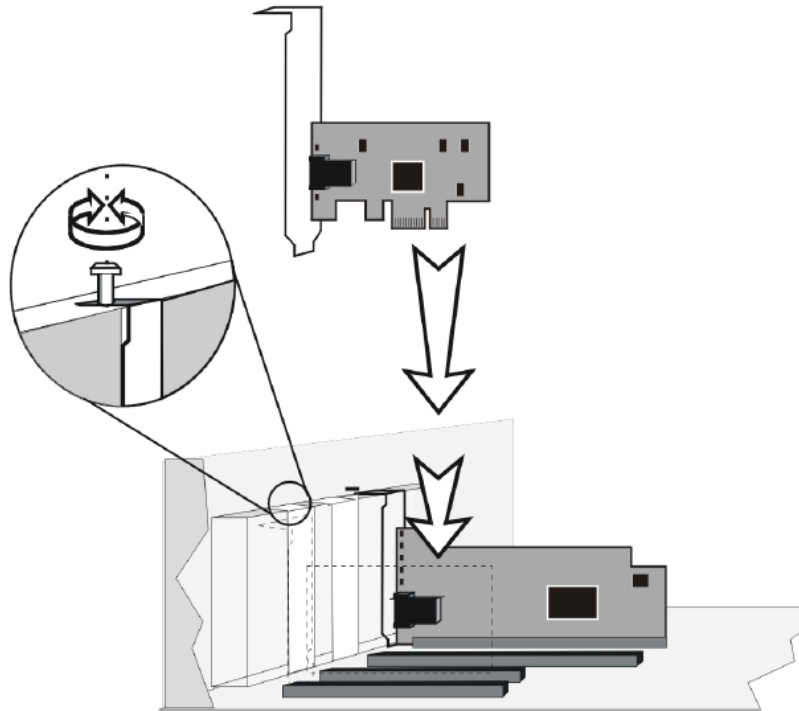


2. After a few moments, the **Finish** screen will appear. Click **OK**.



Hardware Installation

1. Shut down the computer and unplug the power cord.
2. Remove the chassis cover. If you are installing a network adapter in a tower computer, we recommend to put the computer on its side in order to be able to apply the correct force to insert the adapter into the PCI Express slot.
3. Locate an empty PCI Express slot on the motherboard.
4. Insert the network adapter into the PCI Express slot and push it down vertically into the slot until it is firmly seated.
5. Install the bracket screw to secure the network adapter to the computer chassis.



6. Replace the computer chassis cover. Reconnect the power and switch the computer power on. If the BIOS section of your computer's boot program is plug-and-play compliant, then at power-up the BIOS will automatically configure any newly installed adapter. Skip to page 16 to verify your installation.

Alternate Installation

Note: *If you've installed the adapter before installing the driver, please continue with the following procedures.*

Windows® 2000

1. After you have installed the network adapter in your computer, boot Windows 2000. Windows 2000 detects the DGE-560T network adapter as “Ethernet Controller” during the boot operation. The window “Found New Hardware Wizard” is displayed.
2. Click **NEXT**. In the same window the menu “Install Hardware Device Drivers” is displayed.
3. Select the check box **Search for a suitable driver for my device (recommended)**.
4. Click **NEXT**. The menu “Locate Driver Files” is displayed.
5. Select the source from which the driver is to be installed.
6. Type the path to the driver.
7. Click **OK**.
8. Click **NEXT**. The menu “Driver Files Search Results” is displayed, listing the found driver and its location.
9. To install the driver, click **NEXT**. In case the driver does not have a Microsoft Digital Signature yet, the window “Digital Signature Not Found” is displayed.
10. To continue the installation, click **YES**. The window “Completing the Found New Hardware Wizard” is displayed.
11. Click **FINISH** to complete the installation.

Windows® XP and Server 2003 (32-bit)

1. After you have installed the network adapter in your computer, boot Windows Server 2003. The window “Welcome to Found New Hardware Wizard” is displayed. On the screen the menu “Can Windows connect to Windows Update to search for software” is displayed.

If you are installing the driver using Windows® XP Service Pack 1 or earlier, continue with step 3.

2. Select **NO, NOT THIS TIME**.
3. Select the check box **Install from a list or specific location (Advanced)**.
4. Click **NEXT**. The menu “Please choose your search and installation options” is displayed.
5. Select the check box **Search for the best driver in these locations**.
6. Select the check box **Include this location in the search**.
7. Type the path to the driver.
8. Click **OK**.
9. Click **NEXT**. In case the network adapter has not passed Windows Logo testing to verify its compatibility with Server 2003, the window “Hardware Installation” is displayed.
10. To continue the installation, click **Continue Anyway**. In the window “Found New Hardware Wizard”, the menu “Completing the Found New Hardware Wizard” is displayed.
11. Click **FINISH** to complete the installation.

Windows® XP and Server 2003 (64-bit)

1. After you have installed the network adapter in your computer, boot Windows Server 2003. The window “Welcome to Found New Hardware Wizard” is displayed. On the screen the menu “Can Windows connect to Windows Update to search for software” is displayed.
2. Select **NO, NOT THIS TIME**.
3. Click **NEXT**. The menu “What do you want the wizard to do?” is displayed.
4. Select the check box **Specify the location of the driver (Advanced)**.
5. Proceed with step 4 of the installation procedure described in section “Windows® XP and Windows Server 2003 (32-bit)” on the previous page.

Windows® Vista™ (32/64-bit)

To install the driver, proceed as follows:

1. After you have installed the network adapter in your computer, boot Windows Vista. The Window “Found New Hardware” is displayed. On the screen the menu “Locate and install driver software (recommended)”, “Ask me again later”, and “Don’t show this message again for this device” three options are displayed.
2. Select **Ask me again later**.
3. Click on **Start > Control Panel > System and Maintenance > Device Manager**. The Window “Windows needs your permission to continue” is displayed. To continue the installation, Click **Continue anyway**.
4. Expand **Other devices** plus (+) sign.
5. Click on **Ethernet Controller** and right-click mouse button to then choose **Properties**.
6. Click **Driver** in the tab menu.
7. Click **Update Driver...** The window “How do you want to search for driver software” is displayed. On the screen the menu “Search automatically for updated driver software” and “Browse my computer for driver software” two options are displayed. For locating drivers, click **Browse my computer for driver software**.
8. The window “Browse for driver software on your computer” is displayed. Browse the path to the driver and click **Next**.
9. The window “Windows has successfully updated your driver software” is displayed.
10. Click **Close** to complete the installation.

Linux

The Linux driver for the DGE-560T network adapter supports the Linux kernel 2.4.13 and higher stable versions. The installation procedure described in this manual is a general description for Intel/x86 computers, which is valid for all distributions.

The installation package offers the following two installation procedures:

- Installation Mode
- Patch Generation Mode

The INSTALLATION MODE is recommended for normal users. Using this mode, the driver is installed automatically without any user interaction. In case of installation problems, the driver installation script autonomously tries to solve the problems. The driver is compiled automatically and the resulting driver module object file is installed in a suitable location (usually somewhere below the directory `/lib/modules/...`). No source files of the driver are installed into the kernel directory. Only the driver module object file and the manual page (man page) of the driver are installed on your system permanently.

Using the PATCH GENERATION MODE, a driver patch is created, which can be integrated into the Linux kernel instead of compiling and installing the driver on your system. This mode is recommended for advanced users only. For more information, refer to the corresponding readme file. In the following, the INSTALLATION MODE is described.

Prerequisites

The following prerequisites have to be met in order to install the Linux driver:

- Any device using the Linux kernel module needs to be stopped.
- Your system has to be equipped with a network adapter. Without a network adapter the full driver functionality cannot be checked.
- The Linux kernel source must be stored in the directory `/usr/src/linux`. The kernel source and the kernel version have to be consistent.
- A compilation tool, e.g. “gcc”, has to be installed on your Linux system.

Prepare the installation package

1. Login as “root”.
2. Unpack the installation package with one of the following commands:

tar xfvj install-???.tar.bz2

or

bunzip2 -c install-???.tar.bz2 | tar xfv -

The installation script can now be started.

Install the driver

To start the installation script, proceed as follows:

1. Execute the following command to start the script:

cd DriverInstall

./install.sh

2. Select the option INSTALLATION MODE.

The driver is now compiled and loaded. This process can take a few minutes. For more information on the Installation Mode or any information on the Patch Generation Mode, refer to the corresponding readme file or to the kernel documentation (which usually can be found in the directory */usr/src/linux/ Documentation/* on your system).

Novell Netware

The driver is a 32-bit ODI HSM Novell NetWare server driver for the DGE-560T network adapter. It supports both Netware 5.10 and Netware 6.x. In addition to the 32-bit server driver, a Novell ODI 16-bit DOS client MLID driver is available for the latest Novell NetWare VLM Client.

Note: To perform the installation, you must have access to the server console.

Note: The setting for Minimum Packet Receive Buffers in the startup.ncf must be increased to at least 120 per network adapter (e.g. for three network adapters you should add Set Minimum Packet Receive Buffers = 360 to startup.ncf). On SMP Systems (Symmetric Multi Processing Systems), you may have to multiply this number with the number of active processors.

Novell Netware 5.10

To install the network driver on Novell NetWare 5.10, proceed as follows:

1. After you have installed the network adapter in your computer, boot your NetWare system. NetWare detects the new network adapter and tries to install a driver.
2. To get a list of available drivers, press <Enter>.
3. The menu “Select a driver” is displayed.
4. To install an unlisted driver, press <Insert> (the D-Link driver is not listed).
5. To specify the path to the driver, press <F3>. The window “Specify a directory path” is displayed.
6. Type the path to the driver.
If you are installing from CD-ROM, the menu “Select an action” is displayed. Here, select CONTINUE AND ACCESS THE CD-ROM. The menu “Select a driver to install” is displayed.
7. Select the driver for your network adapter. The message “Do you want to copy driver <driver name>.LAN?” is displayed.
8. To copy the driver to the server, select YES. If an older version of a D-Link driver is installed on the system, the messages “Save existing file SYS:SYSTEM\<driver name>.LAN?” and “Save existing file SYS:SYSTEM\<driver name>.LDI?” are displayed.
9. To continue, select the desired options (YES or NO). If you selected YES, the old driver is written to a predefined location which is displayed. If you selected NO, the old driver is overwritten.
In any case, the menu “Board M4CXNW_1 (Driver <driver name>) Actions” is displayed.

-
10. Select SELECT MODIFY DRIVER PARAMETERS/PROTOCOLS.
 11. Configure the protocols to be used.
 12. Configure the parameters, e.g. “slot number”.
 13. After the parameters have been configured, select SAVE PARAMETERS AND LOAD DRIVER.
The driver is loaded.
 14. If desired, change the network adapter parameters or bindings in the autoexec.ncf file using the “Nwconfig” tool.

Novell Netware 6.x

To install the network driver on Novell NetWare 6.x, proceed as follows:

1. After you have installed the network adapter in your computer, boot your NetWare system. NetWare detects the new network adapter and tries to install a driver.
2. To get a list of available drivers, press <Enter>.
3. The menu “Select a driver” is displayed.
4. To install an unlisted driver, press <Insert> (the D-Link driver is not listed).
5. To specify the path to the driver, press <F3>. The window “Specify a directory path” is displayed.
6. Type the path to the driver. If you are installing from CD-ROM, the menu “Select an action” is displayed. Here, select CONTINUE AND ACCESS THE CD-ROM. The menu “Select a driver to install” is displayed.
7. Select the driver for your network adapter. The driver is now loaded.
8. Select RETURN TO DRIVER SUMMARY.
9. Select CONTINUE.
10. To configure the protocols to be used, select ADD PROTOCOL.
11. Select RETURN TO THE DRIVER SUMMARY to finish the installation.
12. If desired, change the network adapter parameters or bindings in the autoexec.ncf file using the “Nwconfig” tool.

FreeBSD

The FreeBSD driver supports the DGE-560T network adapter on FreeBSD 5.x operating systems running on Intel x86 machines. To install the network driver on FreeBSD, proceed as follows:

1. After you have installed the network adapter in your computer, boot FreeBSD.
2. Login in as “root”.
3. Install the driver software by typing: *pkg_add <drivername>*
e.g., *pkg_add ykbsd60x86-8.12.1.3.tgz*

This installs the driver binary into /boot/kernel and the manpage into the directory /usr/share/man/man4.

4. After rebooting, open the file /boot/loader.conf.
5. Add the following line to the file: *if_myk_load="YES"*

This enables the system to load the driver automatically.

6. Open the file /etc/rc.conf.
7. Add the following line to the file:

ifconfig_myk0="inet <local ip address>"

If you use DHCP, add DHCP instead of the local IP address:

ifconfig_myk0="DHCP"

Thus, the interface is configured.

8. Repeat step 7 for each network adapter installed.
9. Reboot your system. On reboot, the driver will be loaded and the network adapter will be configured automatically.

Verify Installation

Step 1:

Windows® 2000: Click on **Start > Settings > Control Panel**

Windows® XP: Click on **Start > Control Panel**

Windows Vista™: Click on **Start > Control Panel**

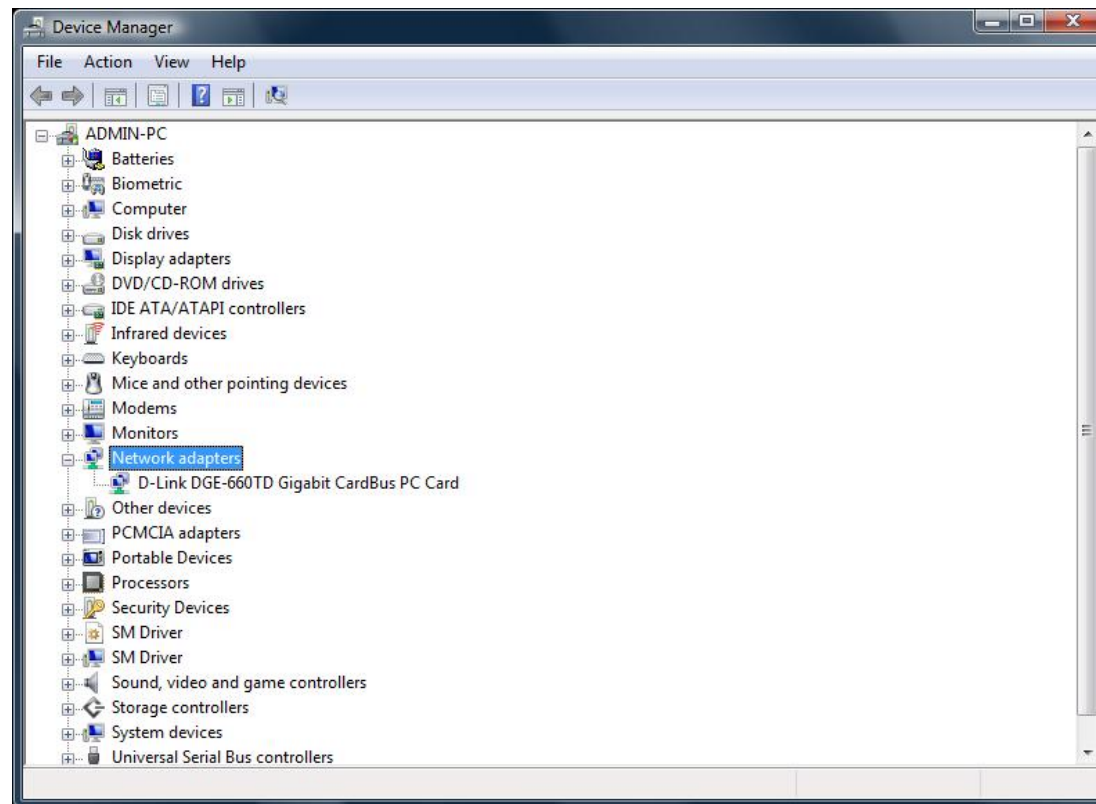
Step 2:

Windows® 2000 and XP: Click on the System icon. Click the **Hardware** tab and then click **Device Manager**.

Windows Vista™: Click on **System and Maintenance** and then click on **Device Manager**.

Step 3:

Scroll down and click the plus (+) sign next to Network Adapters. The **D-Link DGE-560T Gigabit CardBus PC Card** will be listed.



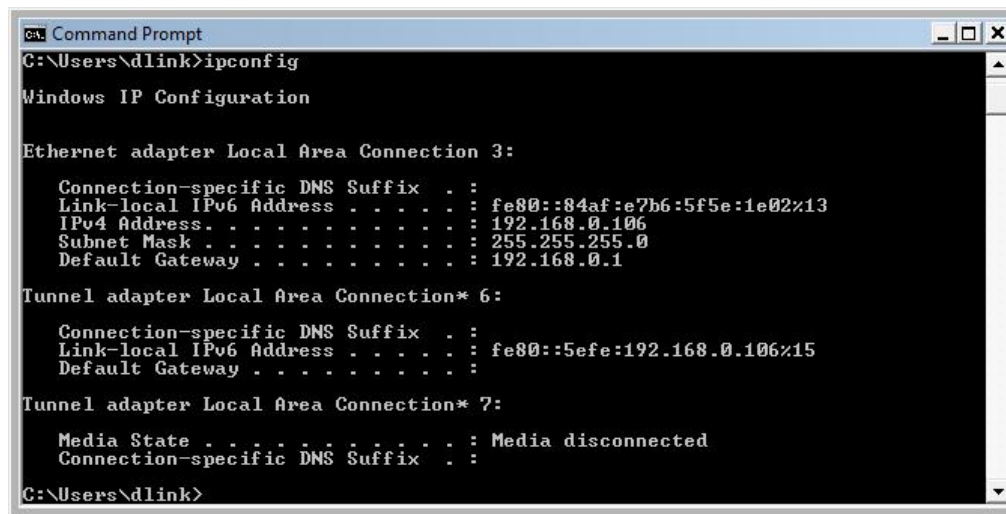
Configure your Adapter

After you install your new D-Link adapter, by default, the TCP/IP settings should be set to obtain an IP address from a DHCP server (i.e router) automatically. To verify your IP address, please see follow the steps below:

Windows® 2000/XP: Click on **Start > Run**. In the run box type **cmd** and click **OK**.

Windows Vista™: Click on **Start > All Programs > Accessories > Command Prompt**.

At the prompt, type **ipconfig** and press **Enter**.



```
Command Prompt
C:\Users\dlink>ipconfig

Windows IP Configuration

Ethernet adapter Local Area Connection 3:

    Connection-specific DNS Suffix  . : 
    Link-local IPv6 Address . . . . . : fe80::84af:e7b6:5f5e:1e02%13
    IPv4 Address. . . . . : 192.168.0.106
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . : 192.168.0.1

Tunnel adapter Local Area Connection* 6:

    Connection-specific DNS Suffix  . : 
    Link-local IPv6 Address . . . . . : fe80::5efe:192.168.0.106%15
    Default Gateway . . . . . : 

Tunnel adapter Local Area Connection* 7:

    Media State . . . . . : Media disconnected
    Connection-specific DNS Suffix  . : 

C:\Users\dlink>
```

This will display the IP address, subnet mask, and the default gateway of your adapter.

If the address is 0.0.0.0, check your adapter installation, security settings, and the settings on your router. Some firewall software programs may block a DHCP request on newly installed adapters.

If you are not using a DHCP capable gateway/router, or you need to assign a static IP address, please follow the steps below.

Step 1

Windows® 2000: Click on **Start > Settings > Control Panel > Network Connections**.

Windows® XP : Click on **Start > Control Panel > Network Connections**.

Windows Vista™ : Click on **Start > Control Panel > Network and Internet > Network and Sharing Center > Manage network connections**.

Step 2

Right-click on **Local Area Connection** which represents your D-Link network adapter and select **Properties**.

Step 3

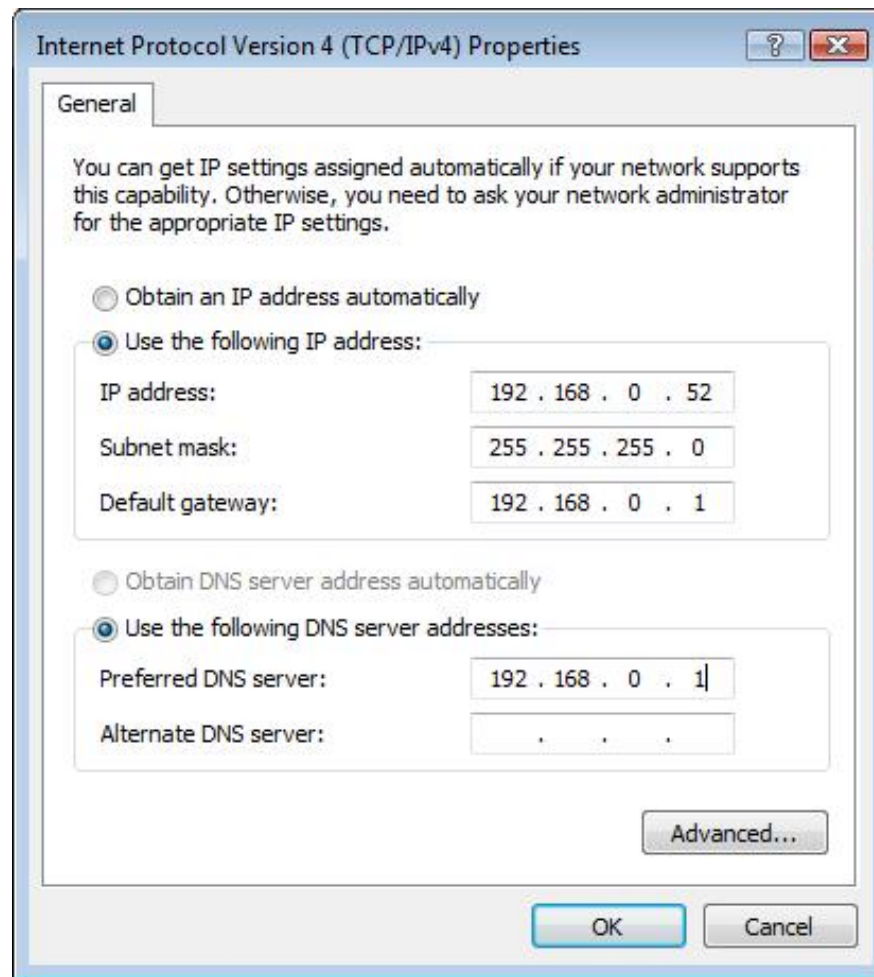
Highlight **Internet Protocol (TCP/IP)** and click **Properties**.

Step 4

Click **Use the following IP address** and enter an IP address that is on the same subnet as your network or the LAN IP address on your router.

Example: If the router's LAN IP address is 192.168.0.1, make your IP address 192.168.0.X where X is a number between 2 and 99. Make sure that the number you choose is not in use on the network. Set Default Gateway the same as the LAN IP address of your router (192.168.0.1).

Set Primary DNS the same as the LAN IP address of your router (192.168.0.1). The Secondary DNS is not needed or you may enter a DNS server from your ISP.



Step 5

Click **OK** twice to save your settings.

Troubleshooting

Confirming the Connection (LED Indicator)

When the computer is powered “ON” and the D-Link DGE-560T is inserted into an open PCI Express slot, please check the following items if your LED light is not “ON”. When all items are working, your D-Link DGE-560T’s ACT/Link LED light should light up green (“linkage” state).

1. Make sure that your Ethernet CAT5 cable is in good working order.
2. Make sure that your hub or switch is powered “ON” and is functioning properly.
3. If the LED remains dark without any apparent cause, check the “Device Manager”. If there is an exclamation point next to the D-Link DGE-560T, then double-click to open. A message indicating the error will appear.
4. After verifying that the D-Link DGE-560T has been installed correctly, check steps 1 and 2 again. If you continue to encounter a problem, please call D-Link Technical Support for assistance.

Troubleshooting the Hardware Installation

If you experience any problems with the hardware installation, first ascertain that all network cable connections are firm, that the proper grade of cable is used for the network connection, and that the cable makeup is correct (straight without un-needed crossovers in the connector wiring). Check that the supporting hub is powered-on and operating normally, and that the hub is properly qualified (under 100Base-TX and/or 1000Base-T standards).

Verify Each Computers Identification

If more than one computer on your network has the same “Computer name”, communications may be negatively affected. Also, each computer must have the same “Workgroup” name to communicate properly.

Verify Network Adapter Installation

If your Network Adapter is not installed, including the Network System Software or Device drivers, your network will not function properly. Use these steps to verify that your Network Adapter is properly installed.

1. Double-click the **System** icon in the Control Panel.
2. Click the **Hardware** tab on top of the **System Properties** dialog box.
3. Click **Device Manager**.
4. Double-click **Network adapters** if you do not see any items branching out. You should see “D-Link DGE-560T Gigabit PCI Express Ethernet Adapter” branching out after double-clicking **Network Adapters**.

If you do not see any items branching out after double-clicking “Network Adapters”, your Network Adapter has not been properly installed. Start at the beginning of the “Quick Install Guide”.

If you see symbols such as yellow exclamation point or red “X” over the icon adjacent to “D-Link DGE-560T Gigabit PCI Express Ethernet Adapter”, your adapter is not installed properly or may have a problem. Double-click the “D-Link DGE-560T Gigabit PCI Express Ethernet Adapter”, and read the explanation of the problem. This information will be helpful if you require technical support from D-Link.

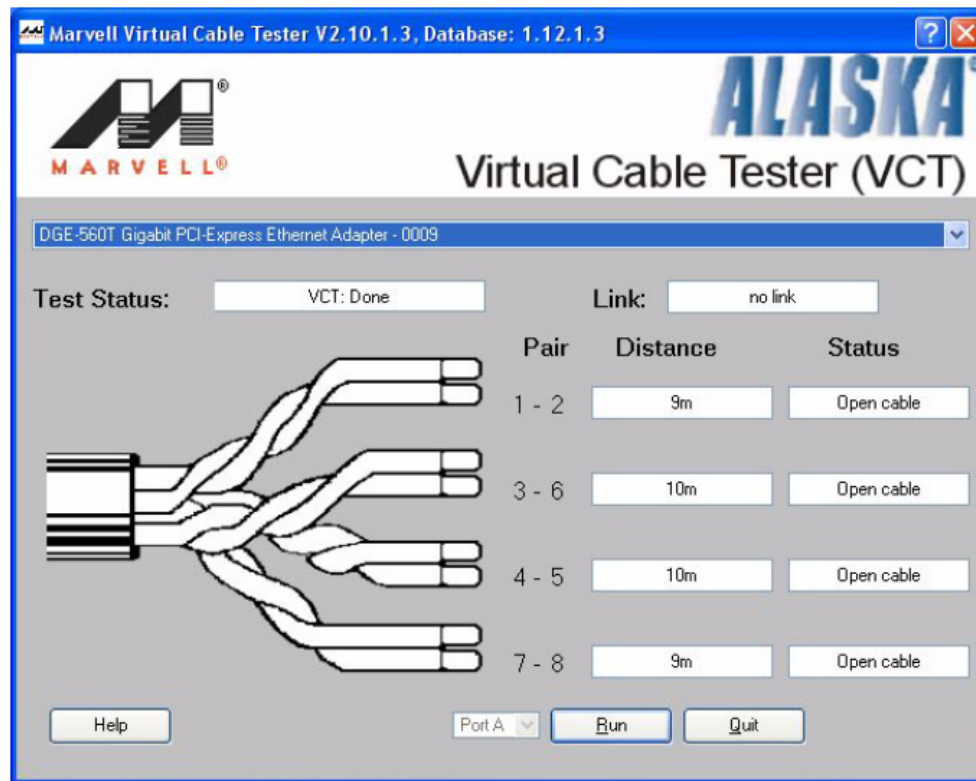
Verify Cable Connections

Check to see that the computer you are troubleshooting is properly connected. Each computer must be connected from its DGE-560T with Category 5 cables. Examine the network cables, and ensure that none have been walked-on, rolled over by chairs, caught in doors, or damaged.

Additionally, make note of and alleviate any possible electromagnetic interference that may be affecting your network. Your network cables can be plugged into any port on your hub except the “Uplink” port. The “Uplink” port is only used when connecting your hub to another hub or switch.

Included on the CD-ROM is a “Virtual Cable Tester®” for D-Link DGE-560T. It will help you to detect potential cabling issues such as cable opens, cable shorts, and impedance mismatches.

1. Insert the CD-ROM that came with your D-Link DGE-560T Gigabit PCI Express Ethernet Adapter into your CD-ROM drive.
2. Choose **Drivers > Virtual Cable Tester**, and click **Install the package**.
3. Follow the instructions provided by the installation wizard.
4. Go to **Start > Programs > Marvell > Virtual Cable Tester** to start the program.
5. Select the network adapter you want to test, and click **Run**.



The cable which is to be tested consists of four pairs of wire. Each pair is tested, and the result is displayed next to the corresponding pair. The field “Distance” displays the distance to the fault. The field “Status” displays the states of the cable pairs:

- **No Info**—The test has not yet been performed or no info is available.
- **Normal Cable**—The cable pair is connected correctly.
- **Short Cable**—Two or more cable pairs are short-circuited together.
- **Open Cable**—A lack of continuity between the pins at each end of the twisted pair cable exists, i.e., the cable pair is not connected correctly.
- **Impedance Mismatch**—The impedance on the cable pair is not correct. Possible reasons for impedance mismatch can be a not properly connected cable pair, a damaged cable pair, a faulty connector, or a remote system that is down.
- **Test failed**—The test of the cable pair was not successful.
- **DSP Data**—DSP Data in the status field is only displayed if a link is up. In this case, the field “Link Status” displays the speed of the link, e.g., 10Mbps, 100Mbps, or 1000Mbps. (If no link is up, “no link” is displayed.)
- **Not present**—Cable pair is not present. This applies for network adapters which can only run with speeds of 10Mbps and 100Mbps and therefore do not use all cable pairs.

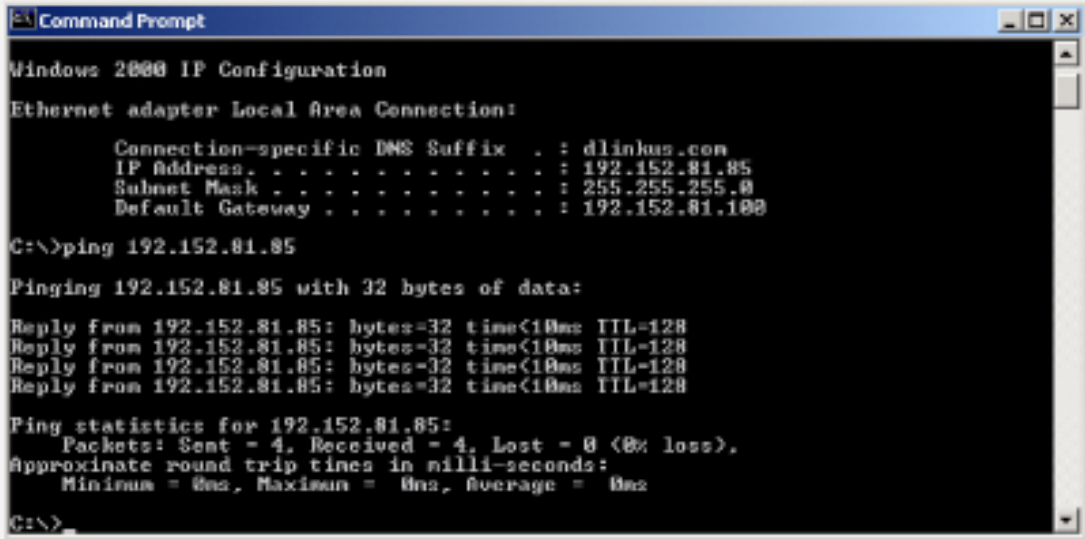
Pinging your DGE-560T Card

Follow these steps to Ping a device:

Ping is the acronym for Packet Internet Groper (PING), a utility to determine if a specific IP address is accessible. It works by sending a packet to the specified address and waiting for a reply. Ping is primarily used to troubleshoot Internet connections. By sending out a ping, you are verifying that a specific computer is available. Since all computers on the network must have a unique IP address, getting a reply means that a computer is on the network and it can communicate.

If you cannot ping another computer, then there is probably a problem with the hardware. Check the cabling and adapter installation. If you are unable to network, even when you receive a reply to your ping, it is probably a software configuration issue. Verify that all the settings are correct.

Start MS-DOS Prompt.



```
Command Prompt

Windows 2000 IP Configuration

Ethernet adapter Local Area Connection:

    Connection-specific DNS Suffix  . : dlinkus.com
    IP Address. . . . . : 192.152.81.85
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . : 192.152.81.100

C:\>ping 192.152.81.85

Pinging 192.152.81.85 with 32 bytes of data:

Reply from 192.152.81.85: bytes=32 time<10ms TTL=128
Reply from 192.152.81.85: bytes=32 time<10ms TTL=128
Reply from 192.152.81.85: bytes=32 time<10ms TTL=128
Reply from 192.152.81.85: bytes=32 time<10ms TTL=128

Ping statistics for 192.152.81.85:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

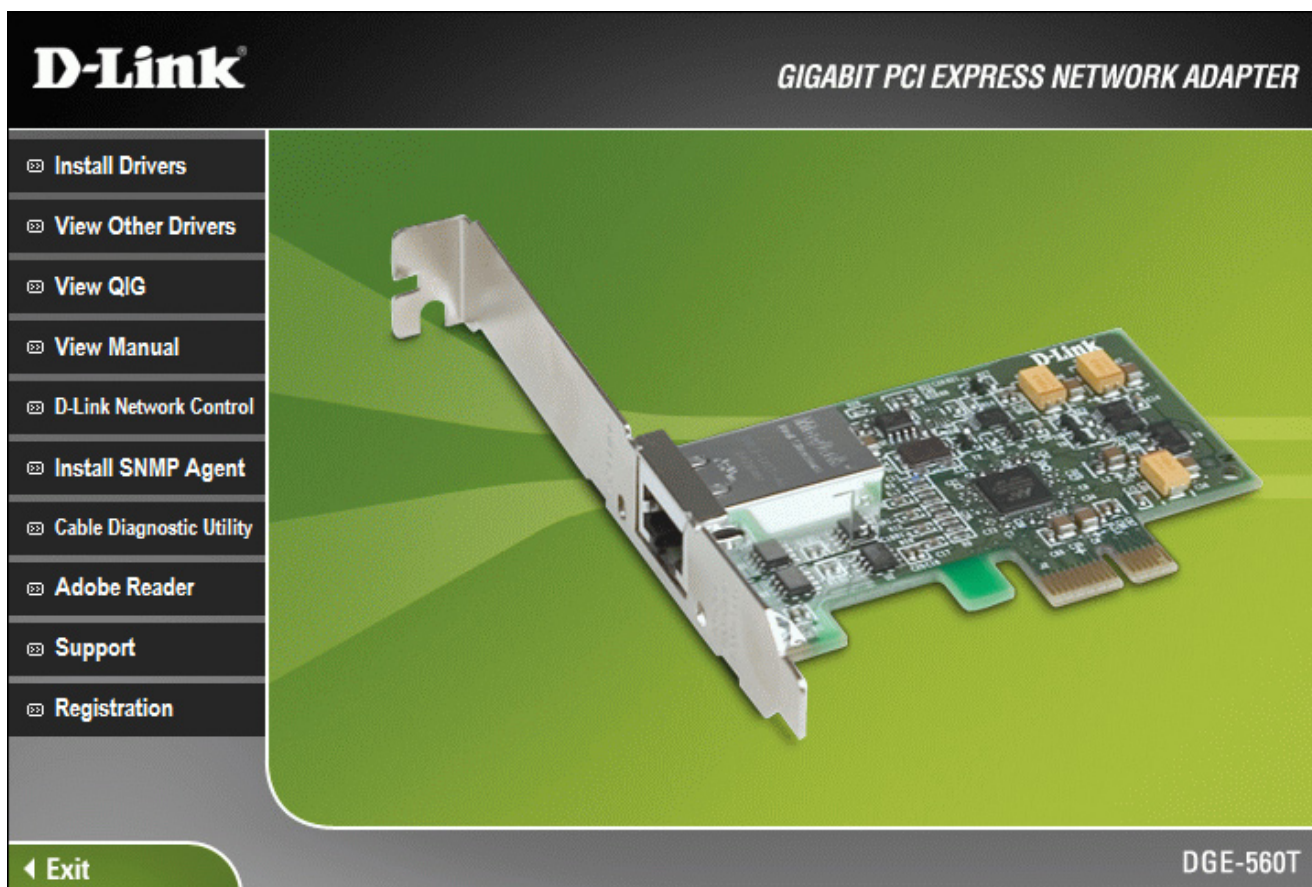
C:\>
```

Type in following: *ping:xxx.xxx.xx.xx*, where xxx.xxx.xx.xx is the IP address to be pinged (i.e. 192.152.81.85). In this case, computer A is pinging its own IP address. A successful ping will show four replies.

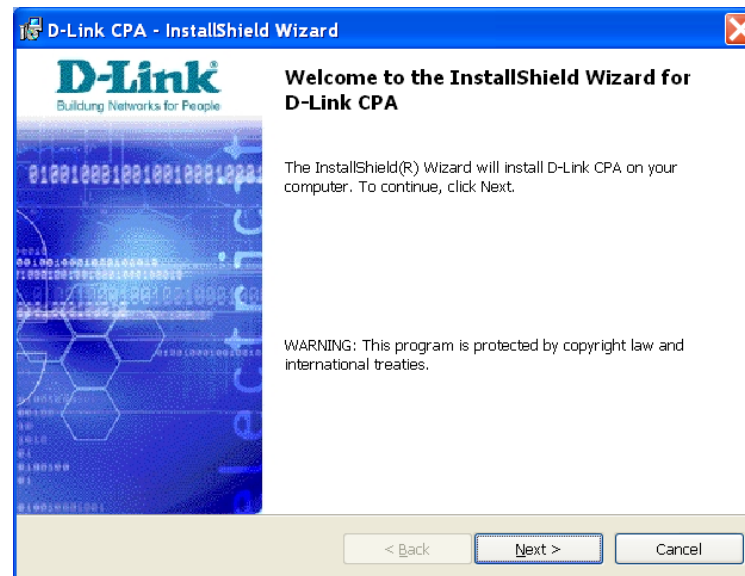
Network Control Program

The D-Link Network Control Program is used to monitor the adapter and create VLAN information including VLAN Identifier and name for the system in which it is installed. Please follow procedures for installing D-Link Network Control program.

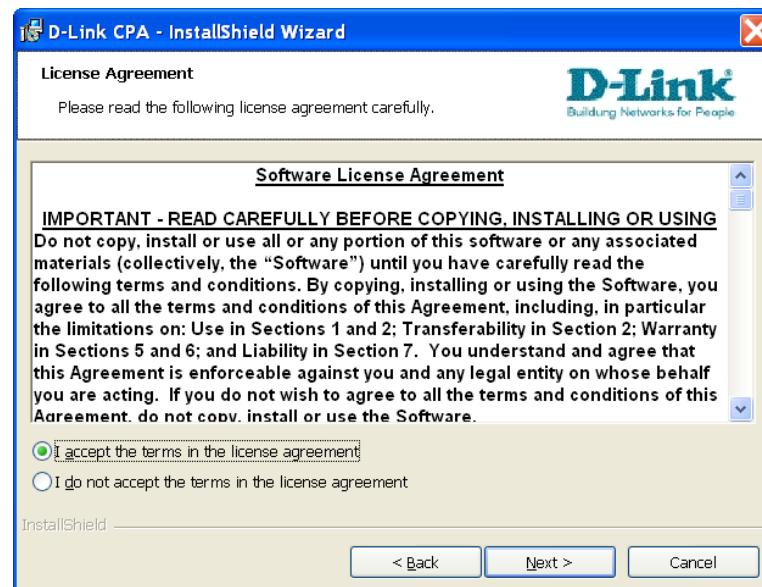
1. To launch the D-Link Network Control installation program, click the **D-Link Network Control** button from the autorun screen.



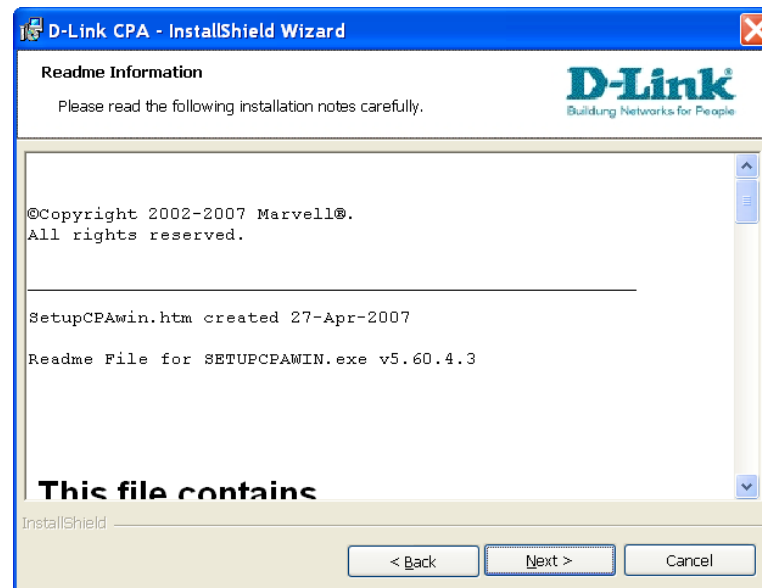
2. Click **Next**.



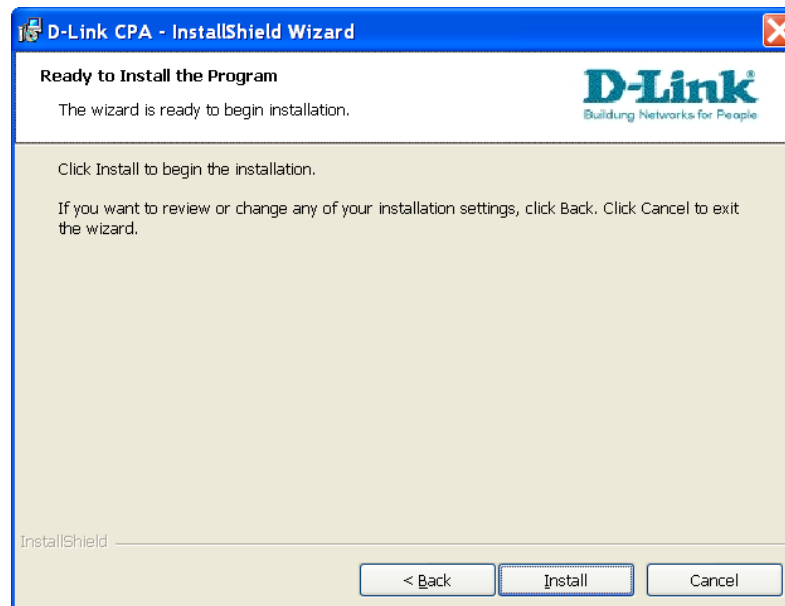
3. Check **I accept the terms in the license agreement** radio button and click **Next**.



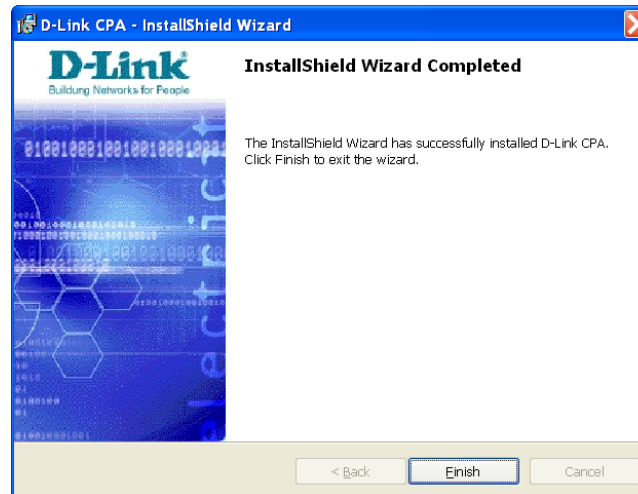
4. Click **Next**.



5. Click **Install**.



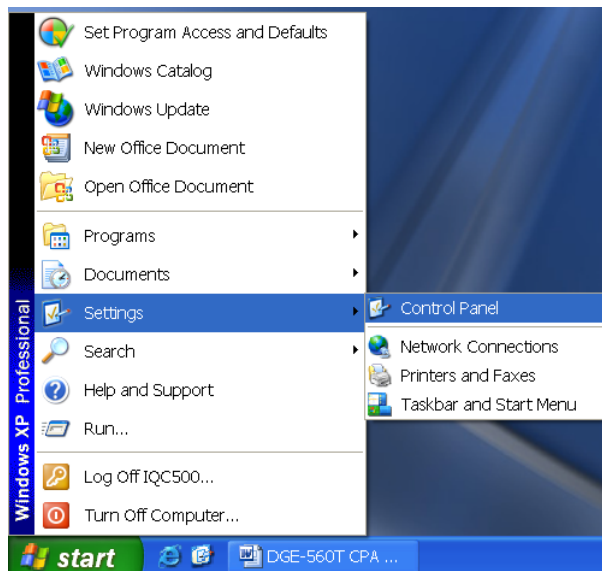
6. Click **Finish**.



D-Link Network Control Program

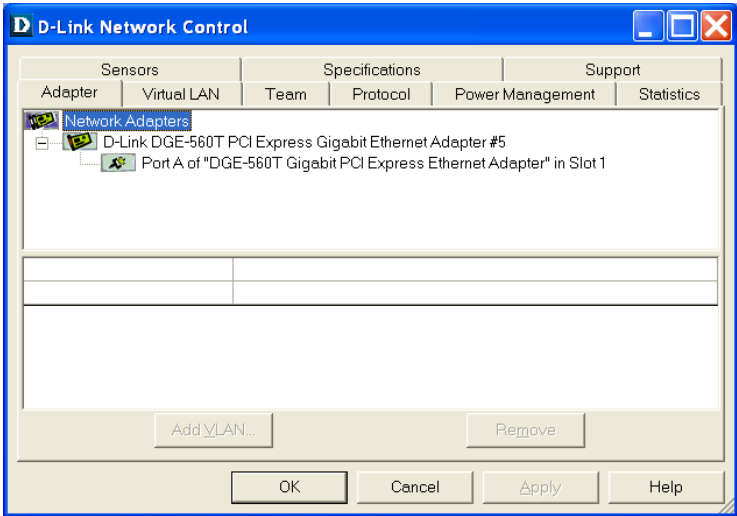
To launch the D-Link Network Control Program, go to **Start > Settings > Control Panel** then double-click the D-Link Network Control icon in the Control Panel folder.

Note: D-Link Network Control Program can be installed and used on Windows® 2000, Windows® XP, and Windows® Server 2003.

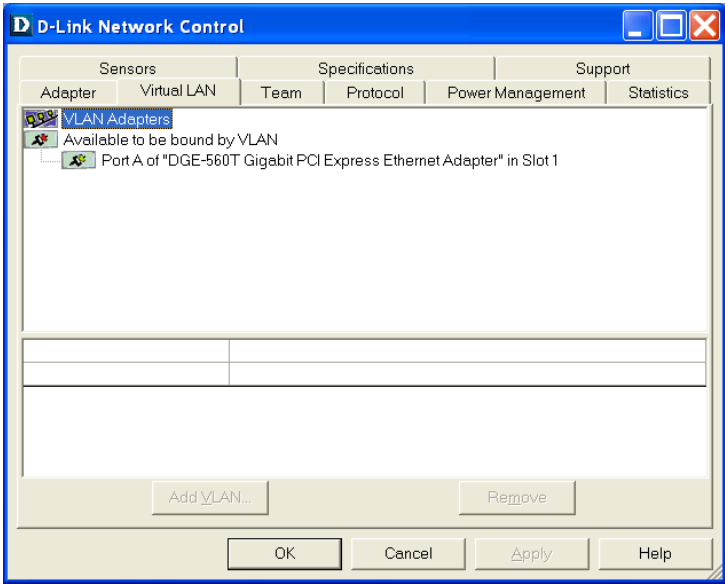


The Network Control menu lists adapters installed on the system. For systems with multiple adapters installed, select the DGE-560T from the list and click **OK**. Click the menu tab for the menu you want to view.

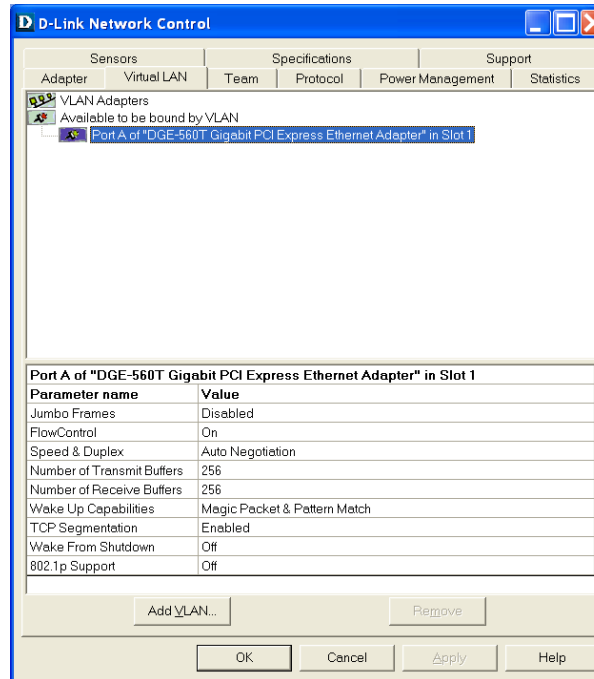
Note: The Power Management and Sensors functions are not currently supported on the adapter.



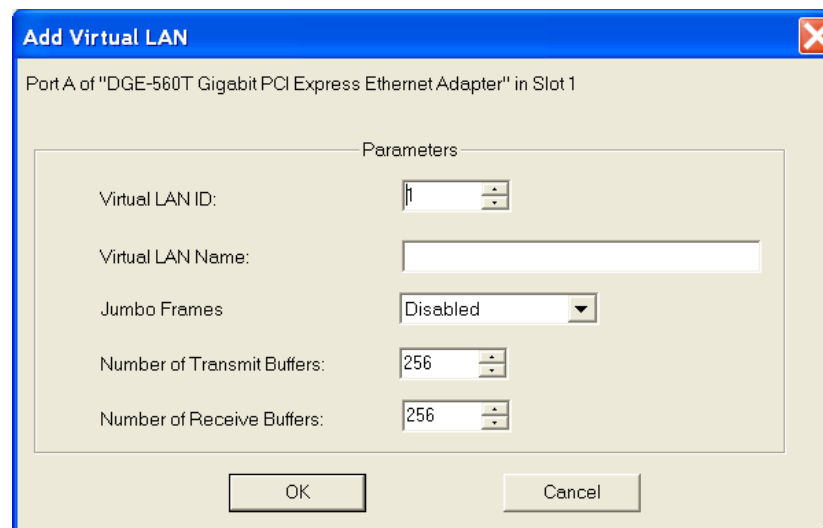
To add VLAN ID, click the Virtual LAN menu tab.



In the Virtual LAN menu tab, pick the adapter you want to add then click the **Add VLAN** button.

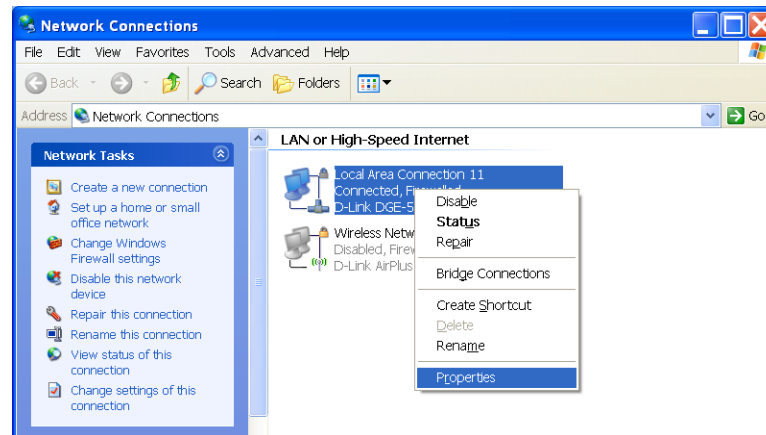


In the Add Virtual LAN pop-up menu, select the Virtual LAN ID (VID) number used for the system. A Virtual LAN Name can also be created but is optional. The Add Virtual LAN menu is also used to configure Jumbo Frames, Transmit Buffers, and Receive Buffers. Click **OK**.

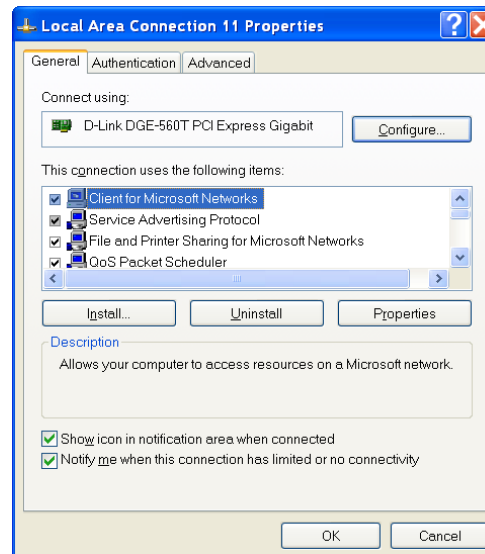


Advanced Adapter Configuration

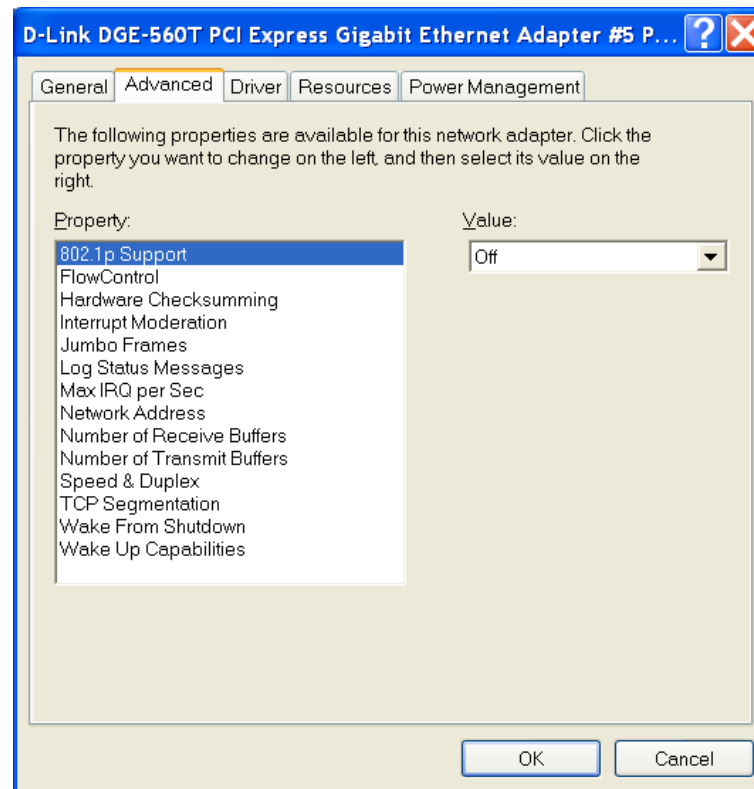
The DGE-560T supports advanced features including the SNMP agent described in the SNMP Agent section in this manual, and support for 802.1p priority. To enable or disable 802.1p support on the adapter, right-click on the **Local Area Connection** icon in **Network Connections** and click **Properties**.



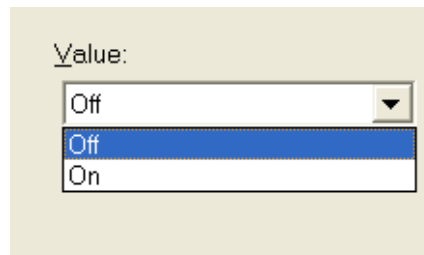
Click the **Configure** button.



Click the **Advanced** tab.



Use the *Advanced Configuration* menus to configure 802.1p, select **802.1p Support** from the *Property* list and select **On** to enable or **Off** to disable from the *Value* drop-down list menu.



Other advanced configuration features that can be changed or enabled include Flow Control, Jumbo Frames, Log Status Messages, Transmit and Receive buffers and others.

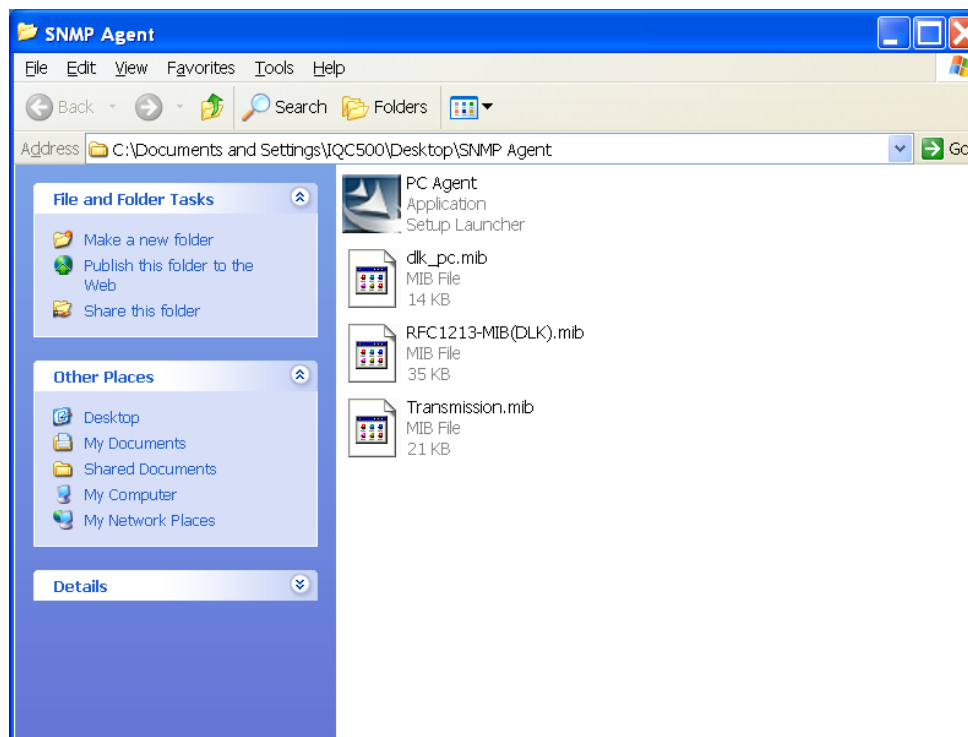
SNMP Agent

This section will show you how to install and use the SNMP Agent on a PC equipped with the DGE-560T adapter.

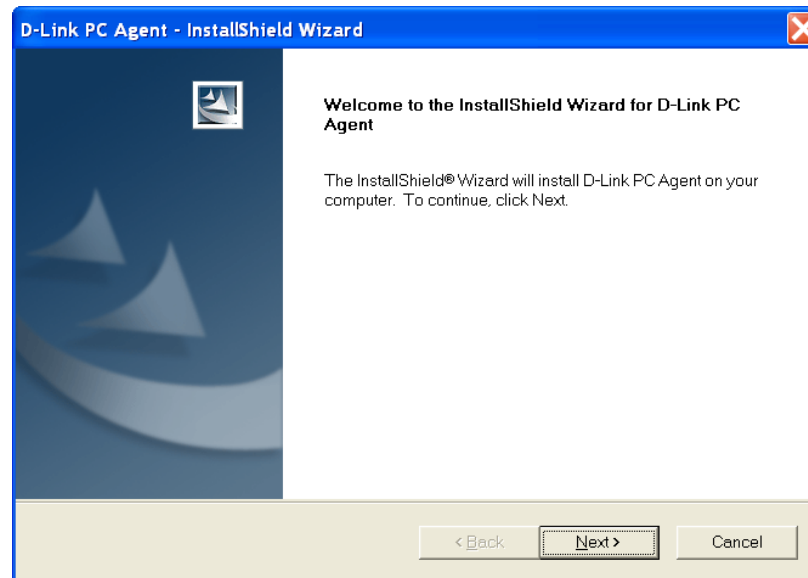
Installing the SNMP Agent

Follow these steps to install the SNMP Agent on the PC on which the DGE-560T adapter and driver had already been installed that is running Microsoft Windows® 2000, Server 2003, Server 2003 x64 Edition, XP or XP 64-bit operating system. The SNMP Agent includes MIB files used for device management using a MIB browser.

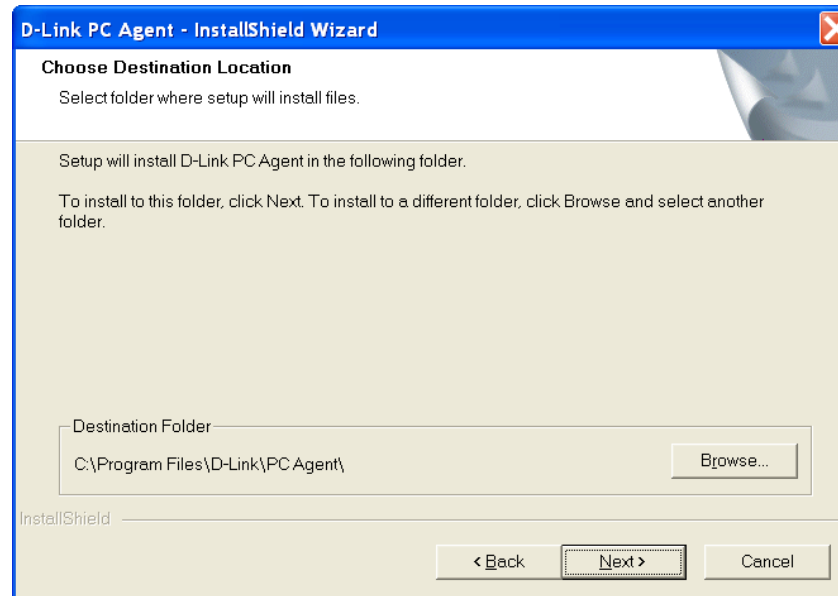
1. To launch the SNMP Agent installation program, double-click on **PC Agent**.



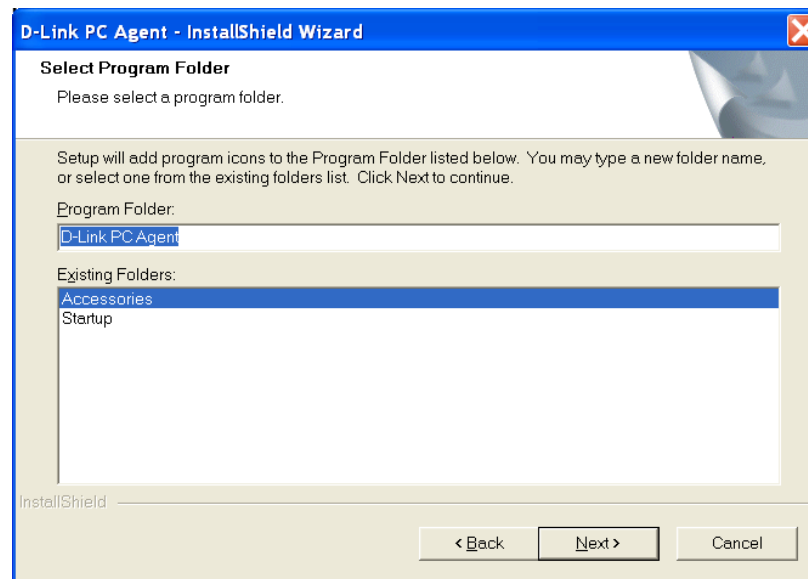
2. Click on **Next** to continue with the installation.



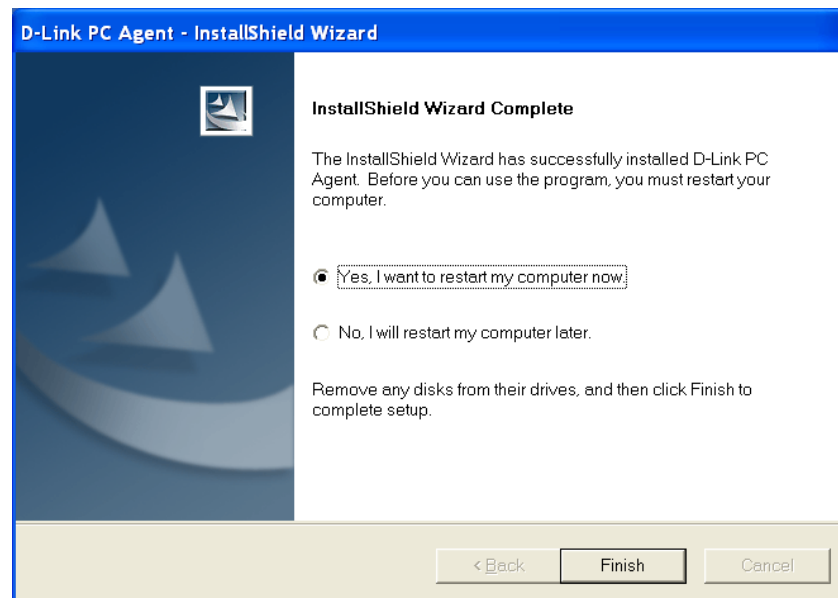
3. Select the location for the agent. The default location is in the Program File folder. To select a different location, click **Browse** and find the preferred location or type a complete file name and path in the Browse menu. To continue click on **Next**.



4. Select the Program Folder in which the file will be located and click on **Next**.



5. Select **Yes, I want to restart my computer now** and click **Finish**.



Using the SNMP Agent

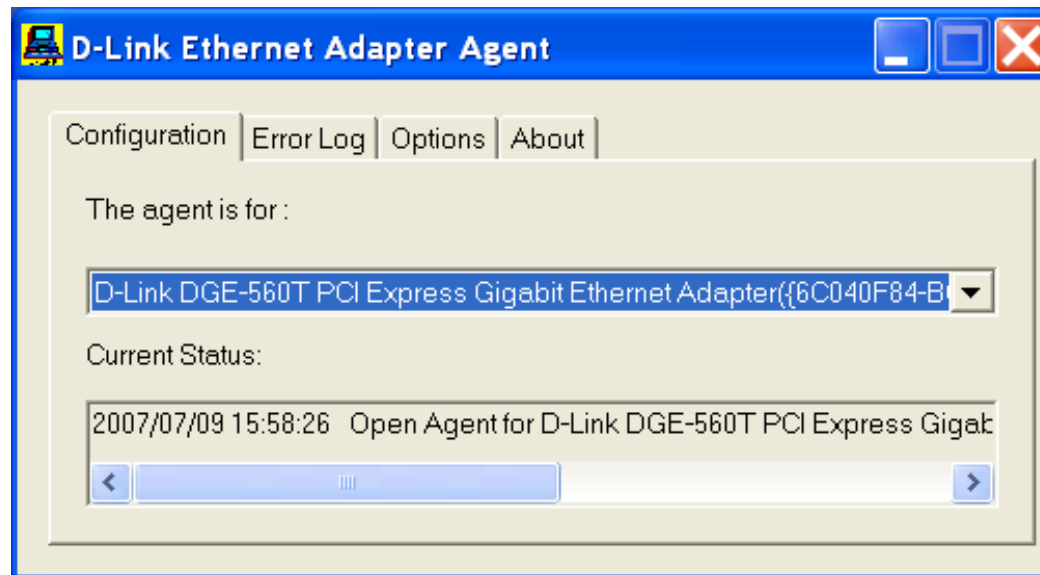
The SNMP Agent will launch automatically after it has been installed and the system has rebooted. Automatic launch of the SNMP Agent for Windows start up can be enabled or disabled as desired.

When the SNMP Agent is active, a MIB browser can be used for device management. These MIB files are located in the D-Link PC Agent folder. The three MIB files are included with the SNMP Agent are named:

- dlk_pc.mib
- RFC1213-MIB(DLK).mib
- Transmission.mib

A dialog box appears asking to select the default adapter card used with the PC Agent program. The DGE-560SX adapter will be selected automatically if it is the only adapter used for the system. If multiple adapters are present, select the DGE-560SX from the drop down list and click **OK**. The D-Link Ethernet Adapter Agent menu appears with the Configuration tab displayed.

Note: The drop-down menu in the Configuration tab lists any installed adapters capable of using the SNMP Agent.

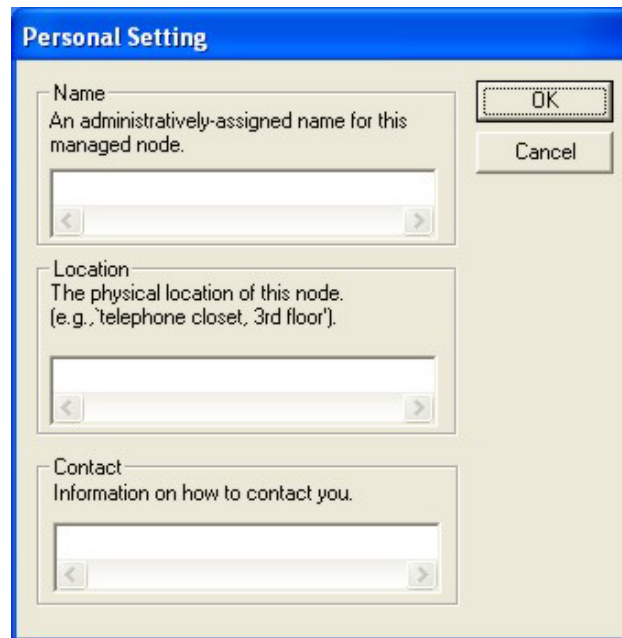


In the *Options* menu tab, click the **Personal** button to add Name, Location and Contact information; click the **Password** button to set a new password. A password is required before changing the password or when exiting the PC Agent.

To automatically launch the SNMP Agent at Windows start up click the **Auto launch when Windows start up** selection box to place a check there. If this option is not selected, the SNMP Agent can be launched manually.

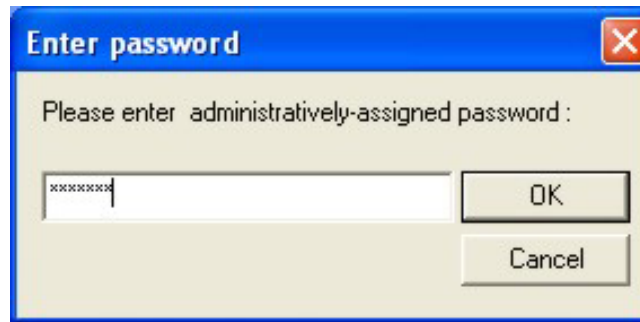


To manually launch the SNMP Agent program, go to the Start menu, open the Programs folder (if you chose to install it in a different folder open that folder), find the **D-Link PC Agent** folder, open it and double-click the **D-Link PC Agent** icon. Configure Name, Location and Contact information in the Personal Setting menu and click **OK**. Personal Setting information is shared with SNMP capable devices on the network.



To change your personal settings, enter information as desired in the spaces provided and click **OK** to save the changes.

To change the administrative password, click the **Password** button in the *Options* menu tab of the D-Link Ethernet Adapter Agent menu. The current password must be entered to view the *Password Setting* menu. Enter the default password private or the current password if it has been changed from the default.

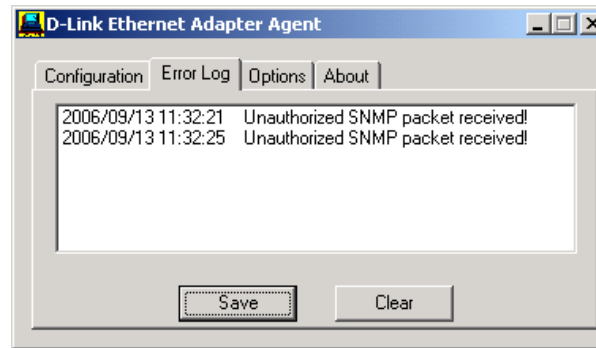


In the Password Setting menu, enter the new password to be assigned and type in again to confirm it has been typed correctly. Click the **OK** button to set the new administrative password.



Note: To exit the PC Agent, it is necessary to enter the administrative password.

The D-Link Ethernet Adapter Agent maintains and allows the user to view an error log for the adapter. To view the error log click on the *Error Log* tab to select it. The error log is displayed:



To save the error log to the system's hard disk, click the **Save** button and choose a location at the prompt. To delete all log entries click the **Clear** button

Networking Basics

About Gigabit Ethernet

Gigabit Ethernet is a network technology specified by IEEE Standard 802.3ab. It extends the traditional 100Mbps (100 megabit/sec) Fast Ethernet technology to achieve 1000Mbps (1000 megabit/sec) transmission and reception. Because Gigabit Ethernet retains the traditional Ethernet CSMA/CD (Carrier Sense, Multiple Access, and Collision Detect) protocol, it remains wholly compatible with 100Mbps Ethernet while providing a tenfold increase in network capacity.

The DGE-560T provides full-duplex 1000Base-T operation (in Category 5 twisted-pair cable environments utilizing all 4 pair). To provide for traditional 10 or 100Mbps Ethernet operation in twisted-pair cable environments, the DGE-560T also offers 10 or 100Mbps Ethernet operation, in full-duplex and half-duplex modes. The DGE-560T's auto-negotiation capability provides for automatic selection of the best operation mode.

About Auto-negotiation

The basic idea of auto-negotiation can be understood by reflecting for a moment on the familiar process of making a dialup connection between two modems. You have probably heard some exchanges between your local modem and a modem at the other end of a telephone line. (These exchanges are ordinarily played out through a speaker in your local modem). As irritating as those few seconds of noise may be, they do let you know that your modem and the remote modem are on the job, preparing for your intended communication with the remote computer.

The preparatory work of the two modems during those few seconds before you see the “connect” message is to negotiate the best data communication scheme that is supported by both modems, and to decide which is suitable for the quality of the telephone-line connection between them. The parameters to be settled between the two modems include best baud rate, compression method, and error correction method. When the two modems have tested the phone-line quality and have switched to the combination of parameters, which will provide the best data communication, then you are given the “connect” message which signals the end of the inter-modem negotiation and the beginning of your intended communication with the remote computer.

Auto-negotiation between devices within an Ethernet LAN is similar in concept, but much briefer. The two devices involved in the auto-negotiation will be your DGE-560T and the switch or hub through which it is connected into the LAN. (Switches ordinarily provide for auto-negotiation; traditional hubs do not.) The parameters to be negotiated between the DGE-560T and its supporting switch or hub include speed (1000Mbps = Gigabit Ethernet, or 100Mbps = Fast Ethernet) and duplex mode (half-duplex or full-duplex).

Startup communication between the two devices occurs when both devices are operating, the cable connection between them is good, and the connected notebook PC's network software is loaded. As soon as those conditions are satisfied, the preparatory process of auto-negotiation between the DGE-560T and its supporting device begins and proceeds automatically.

If the supporting switch or hub has auto-negotiation functionality, then it and the DGE-560T exchange a series of messages in which each device signals its capabilities and listens for corresponding information about the other. The auto-negotiation process requires only a few milliseconds, and the two devices select the best communication parameters supported by both devices.

If the supporting device does not have auto-negotiation functionality, then its monotone (single capability) message will be recognized by the DGE-560T's auto-negotiation facility, and the DGE-560T will simply switch to the one of its own capabilities that matches that of the supporting device.

Once the auto-negotiation is completed, the line is ready, and it will provide an optimal data channel between the DGE-560T and the supporting device. The line will remain ready without further auto-negotiation action until the link is broken. Auto-negotiation then reoccurs at any time that the link is restored, again making the line ready for optimal data communications.

Technical Specifications

Standards:

- IEEE 802.3 10Base-T Ethernet
- IEEE 802.3u 100BASE-TX Fast Ethernet standard
- IEEE 802.3ab/802.3z 1000BASE-T Gigabit Ethernet standard
- IEEE 802.3ad Link Aggregation Control Protocol standard
- IEEE 802.3x Flow-Control and Auto-Negotiation standard
- IEEE 802.1p Quality of Service standard
- IEEE 802.1q/802.3ac VLAN/VLAN Tagging standard
- PCI Express 1.0a specification

Network Media:

- Ethernet: UTP CAT3, 4, 5 EIA/TIA-568 100-ohm
- Fast Ethernet: UTP CAT5, EIA/TIA-568 100-ohm
- Gigabit Ethernet: UTP CAT5, EIA/TIA-568 100-ohm

Protocol:

- CSMA/CD

Host Interface:

- PCI Express x1 Serial Link

Diagnostic LEDs:

- Activity/Link
- Speed (Yellow: 1000Mbps; Green: 100Mbps; Off: 10Mbps)

Network Data Transfer Rate:

- Ethernet: 10Mbps (Half-duplex)
- Ethernet: 20 Mbps (Full-duplex)
- Fast Ethernet: 100Mbps (Half-duplex)
- Fast Ethernet: 200Mbps (Full-duplex)
- Gigabit Ethernet: 2000Mbps (Full-duplex)

Temperature:

- Operating: 0~50°C (32~122°F)
- Storage: -20~70°C (-4~158°F)

Humidity:

- Operating: 30%~80% non-condensing
- Storage: 10%~95% non-condensing

Driver Support:

- Windows Vista™ x86
- Windows Vista™ x64
- Microsoft Windows® XP
- Microsoft Windows® Server 2003
- Microsoft Windows® 2000
- Linux kernel 2.4.13 and higher stable version

Emission:

- FCC Class B
- CE mark Class B
- VCCI-B

Visit <http://support.dlink.com> for newest releases of drivers.

Technical Support

U.S. and Canadian customers can contact D-Link technical support through our web site or by phone.

Before you contact technical support, please have the following ready:

- Model number of the product (e.g. DGE-560T)
- Hardware Revision (located on the label on the adapter (e.g. rev A2))
- Serial Number (s/n number located on the label on the adapter).

You can find software updates and user documentation on the D-Link website as well as frequently asked questions and answers to technical issues.

For customers within the United States:

Phone Support:

(877) 453-5465

Internet Support:

<http://support.dlink.com>

For customers within Canada:

Phone Support:

(800) 361-5265

Internet Support:

<http://support.dlink.com>

Warranty

Subject to the terms and conditions set forth herein, D-Link Systems, Inc. (“D-Link”) provides this Limited Warranty:

- Only to the person or entity that originally purchased the product from D-Link or its authorized reseller or distributor, and
- Only for products purchased and delivered within the fifty states of the United States, the District of Columbia, U.S. Possessions or Protectorates, U.S. Military Installations, or addresses with an APO or FPO.

Limited Warranty:

D-Link warrants that the hardware portion of the D-Link product described below (“Hardware”) will be free from material defects in workmanship and materials under normal use from the date of original retail purchase of the product, for the period set forth below (“Warranty Period”), except as otherwise stated herein.

- Hardware (excluding power supplies and fans): One (1) year
- Power supplies and fans: One (1) year
- Spare parts and spare kits: Ninety (90) days

The customer’s sole and exclusive remedy and the entire liability of D-Link and its suppliers under this Limited Warranty will be, at D-Link’s option, to repair or replace the defective Hardware during the Warranty Period at no charge to the original owner or to refund the actual purchase price paid. Any repair or replacement will be rendered by D-Link at an Authorized D-Link Service Office. The replacement hardware need not be new or have an identical make, model or part. D-Link may, at its option, replace the defective Hardware or any part thereof with any reconditioned product that D-Link reasonably determines is substantially equivalent (or superior) in all material respects to the defective Hardware. Repaired or replacement hardware will be warranted for the remainder of the original Warranty Period or ninety (90) days, whichever is longer, and is subject to the same limitations and exclusions. If a material defect is incapable of correction, or if D-Link determines that it is not practical to repair or replace the defective Hardware, the actual price paid by the original purchaser for the defective Hardware will be refunded by D-Link upon return to D-Link of the defective Hardware. All Hardware or part thereof that is replaced by D-Link, or for which the purchase price is refunded, shall become the property of D-Link upon replacement or refund.

Limited Software Warranty:

D-Link warrants that the software portion of the product (“Software”) will substantially conform to D-Link’s then current functional specifications for the Software, as set forth in the applicable documentation, from the date of original retail purchase of the Software for a period of ninety (90) days (“Software Warranty Period”), provided that the Software is properly installed on approved hardware and operated as contemplated in its documentation. D-Link further warrants that, during the Software Warranty Period, the magnetic media on which D-Link delivers the Software will be free of physical defects. The customer’s sole and exclusive remedy and the entire liability of D-Link and its suppliers under this Limited Warranty will be, at D-Link’s option, to replace the non-conforming Software (or defective media) with software that substantially conforms to D-Link’s functional specifications for the Software or to refund the portion of the actual purchase price paid that is attributable to the Software. Except as otherwise agreed by D-Link in writing, the replacement Software is provided only to the original licensee, and is subject to the terms and conditions of the license granted by D-Link for the Software. Replacement Software will be warranted for the remainder of the original Warranty Period and is subject to the same limitations and exclusions. If a material non-conformance is incapable of correction, or if D-Link determines in its sole discretion that it is not practical to replace the non-conforming Software, the price paid by the original licensee for the non-conforming Software will be refunded by D-Link; provided that the non-conforming Software (and all copies thereof) is first returned to D-Link. The license granted respecting any Software for which a refund is given automatically terminates.

Non-Applicability of Warranty:

The Limited Warranty provided hereunder for Hardware and Software portions of D-Link’s products will not be applied to and does not cover any refurbished product and any product purchased through the inventory clearance or liquidation sale or other sales in which D-Link, the sellers, or the liquidators expressly disclaim their warranty obligation pertaining to the product and in that case, the product is being sold “As-Is” without any warranty whatsoever including, without limitation, the Limited Warranty as described herein, notwithstanding anything stated herein to the contrary.

Submitting A Claim:

The customer shall return the product to the original purchase point based on its return policy. In case the return policy period has expired and the product is within warranty, the customer shall submit a claim to D-Link as outlined below:

- The customer must submit with the product as part of the claim a written description of the Hardware defect or Software nonconformance in sufficient detail to allow DLink to confirm the same, along with proof of purchase of the product (such as a copy of the dated purchase invoice for the product) if the product is not registered.
- The customer must obtain a Case ID Number from D-Link Technical Support at 1-877-453-5465, who will attempt to assist the customer in resolving any suspected defects with the product. If the product is considered defective, the customer must obtain a Return Material Authorization (“RMA”) number by completing the RMA form and entering the assigned Case ID Number at <https://rma.dlink.com/>.

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- After an RMA number is issued, the defective product must be packaged securely in the original or other suitable shipping package to ensure that it will not be damaged in transit, and the RMA number must be prominently marked on the outside of the package. Do not include any manuals or accessories in the shipping package. DLink will only replace the defective portion of the product and will not ship back any accessories.
 - The customer is responsible for all in-bound shipping charges to D-Link. No Cash on Delivery (“COD”) is allowed. Products sent COD will either be rejected by D-Link or become the property of D-Link. Products shall be fully insured by the customer and shipped to D-Link Systems, Inc., 17595 Mt. Herrmann, Fountain Valley, CA 92708. D-Link will not be held responsible for any packages that are lost in transit to D-Link. The repaired or replaced packages will be shipped to the customer via UPS Ground or any common carrier selected by D-Link. Return shipping charges shall be prepaid by D-Link if you use an address in the United States, otherwise we will ship the product to you freight collect. Expedited shipping is available upon request and provided shipping charges are prepaid by the customer. D-Link may reject or return any product that is not packaged and shipped in strict compliance with the foregoing requirements, or for which an RMA number is not visible from the outside of the package. The product owner agrees to pay D-Link’s reasonable handling and return shipping charges for any product that is not packaged and shipped in accordance with the foregoing requirements, or that is determined by D-Link not to be defective or non-conforming.

What Is Not Covered:

The Limited Warranty provided herein by D-Link does not cover:

Products that, in D-Link’s judgment, have been subjected to abuse, accident, alteration, modification, tampering, negligence, misuse, faulty installation, lack of reasonable care, repair or service in any way that is not contemplated in the documentation for the product, or if the model or serial number has been altered, tampered with, defaced or removed; Initial installation, installation and removal of the product for repair, and shipping costs; Operational adjustments covered in the operating manual for the product, and normal maintenance; Damage that occurs in shipment, due to act of God, failures due to power surge, and cosmetic damage; Any hardware, software, firmware or other products or services provided by anyone other than D-Link; and Products that have been purchased from inventory clearance or liquidation sales or other sales in which D-Link, the sellers, or the liquidators expressly disclaim their warranty obligation pertaining to the product.

While necessary maintenance or repairs on your Product can be performed by any company, we recommend that you use only an Authorized D-Link Service Office. Improper or incorrectly performed maintenance or repair voids this Limited Warranty.

Disclaimer of Other Warranties:

EXCEPT FOR THE LIMITED WARRANTY SPECIFIED HEREIN, THE PRODUCT IS PROVIDED “AS-IS” WITHOUT ANY WARRANTY OF ANY KIND WHATSOEVER INCLUDING, WITHOUT LIMITATION, ANY WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.

IF ANY IMPLIED WARRANTY CANNOT BE DISCLAIMED IN ANY TERRITORY WHERE A PRODUCT IS SOLD, THE DURATION OF SUCH IMPLIED WARRANTY SHALL BE LIMITED TO THE DURATION OF THE APPLICABLE WARRANTY PERIOD SET FORTH ABOVE. EXCEPT AS EXPRESSLY COVERED UNDER THE LIMITED WARRANTY PROVIDED HEREIN, THE ENTIRE RISK AS TO THE QUALITY, SELECTION AND PERFORMANCE OF THE PRODUCT IS WITH THE PURCHASER OF THE PRODUCT.

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TO THE MAXIMUM EXTENT PERMITTED BY LAW, D-LINK IS NOT LIABLE UNDER ANY CONTRACT, NEGLIGENCE, STRICT LIABILITY OR OTHER LEGAL OR EQUITABLE THEORY FOR ANY LOSS OF USE OF THE PRODUCT, INCONVENIENCE OR DAMAGES OF ANY CHARACTER, WHETHER DIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL (INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF GOODWILL, LOSS OF REVENUE OR PROFIT, WORK STOPPAGE, COMPUTER FAILURE OR MALFUNCTION, FAILURE OF OTHER EQUIPMENT OR COMPUTER PROGRAMS TO WHICH D-LINK'S PRODUCT IS CONNECTED WITH, LOSS OF INFORMATION OR DATA CONTAINED IN, STORED ON, OR INTEGRATED WITH ANY PRODUCT RETURNED TO D-LINK FOR WARRANTY SERVICE) RESULTING FROM THE USE OF THE PRODUCT, RELATING TO WARRANTY SERVICE, OR ARISING OUT OF ANY BREACH OF THIS LIMITED WARRANTY, EVEN IF D-LINK HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. THE SOLE REMEDY FOR A BREACH OF THE FOREGOING LIMITED WARRANTY IS REPAIR, REPLACEMENT OR REFUND OF THE DEFECTIVE OR NONCONFORMING PRODUCT. THE MAXIMUM LIABILITY OF D-LINK UNDER THIS WARRANTY IS LIMITED TO THE PURCHASE PRICE OF THE PRODUCT COVERED BY THE WARRANTY. THE FOREGOING EXPRESS WRITTEN WARRANTIES AND REMEDIES ARE EXCLUSIVE AND ARE IN LIEU OF ANY OTHER WARRANTIES OR REMEDIES, EXPRESS, IMPLIED OR STATUTORY.

Governing Law:

This Limited Warranty shall be governed by the laws of the State of California. Some states do not allow exclusion or limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the foregoing limitations and exclusions may not apply. This Limited Warranty provides specific legal rights and you may also have other rights which vary from state to state.

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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.

FCC Caution:

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

IMPORTANT NOTICE:**FCC Radiation Exposure Statement:**

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

The availability of some specific channels and/or operational frequency bands are country dependent and are firmware programmed at the factory to match the intended destination. The firmware setting is not accessible by the end user.

For detailed warranty information applicable to products purchased outside the United States, please contact the corresponding local D-Link office.

Industry Canada Notice:

This device complies with RSS-210 of the Industry Canada Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

IMPORTANT NOTE:

Radiation Exposure Statement:

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

This device has been designed to operate with an antenna having a maximum gain of 2 dB. Antenna having a higher gain is strictly prohibited per regulations of Industry Canada. The required antenna impedance is 50 ohms.

Registration



Product registration is entirely voluntary and failure to complete or return this form will not diminish your warranty rights.

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