56K V.92 Modem

D-Link DFM-560EL 56K External Modem

User's Guide

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FCC Requirements

This equipment complies with Part 68 of the FCC Rules. On the bottom of this equipment is a label that contains, among other information, the FCC Registration Number and Ringer Equivalence Number (REN) for this equipment. IF REQUESTED. THIS INFORMATION MUST BE GIVEN TO THE TELEPHONE COMPANY.

The REN is useful to determine the quantity of devices you may connect to your telephone line and still have these entire devices ring when your telephone number is called in most. But not all areas the sum of the REN's of all devices connected to one line should not exceed five (5.0). To be certain of the number of devices you may connect to your line. As determined by the REN. You should contact your local telephone company to determine the maximum REN of the area you are calling from. If your telephone equipment causes harm to the telephone network. The Telephone Company may discontinue your service temporally. If possible, they will notify you in advance. But if the advanced notice is failed, you will be notified as soon as possible. You will be informed of your right to file a complaint with the FCC.

Your telephone company may change in its facilities, equipment, operations or procedures that could affect the proper functions of your equipment. If this occurs, you will be notified in advance to give you an opportunity to maintain uninterrupted telephone service.

If you experience trouble with this telephone equipment, please contact the following address and phone number for information on obtaining service or repairs. The Telephone Company may ask you to disconnect this equipment from the network until the problem is solved or until that the equipment is not detected malfunctioning. This equipment may not be used on coin service provided by the Telephone Company. Connection to party lines is subject to state Tariffs.

Federal Communications Commission

Radio Frequency Interference Statement.

Note: This equipment has been tested and found to comply with the limitation for a lass B digital device pursuant to Part 15 of the FCC Rules. These restrictions are designed to provide reasonable protection against harmful interference when the equipment is operated in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and if not installed and used in accordance with the instruction manual may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If the equipment does cause harmful interference to radio or television reception, which can be determine by tuning the equipment off and on, the user is suggested to try to correct the interference by one or more of the following measures:

- -Reorient or relocate the receiving antenna.
- -Increase the distance 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.

Notices:

- (1) The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
- (2) Shielded interface cables and AC power cord if any must be used in order to comply with the emission limits.

Notices to Australian users:

The modem card must only be used in a data terminal equipment (DTE) e.g. computer, that has a screw down cover (lid). As unsafe voltages (TNV) exist on the modem card, disconnect the modem card from the telephone line while the cover (lid) of the DTE (computer) is removed.

Installation of the modem card in a DTE (computer) which does not require a tool to open the cover (lid) will render the permit void.

Disconnect the telephone line before opening the cover (lid) of the DTE (computer). Do not connect the customer equipment to the telephone line while the cover (lid) of the DTE (computer) is open.

WARNING ONLY CONNECT EQUIPMENT WITH A TELECOMMUNICATIONS COMPLIANCE LABEL

WARNING FOR SAFETY REASONS, ONLY CONNECT EQUIPMENT WITH A TELECOMMUNICATIOS COMPLIANCE LABEL. THIS INCLUDES CUSTOMER EQUIPMENT PREVIOUSLY LABELLED PERMITTED OR CERTIFIED.

Modems connected to the Australian telecommunications network must be marked in accordance with the Labeling Notice. This modem has been specifically configured to ensure compliance with the ACA Standards. Do not adjust your modem or software outside the values indicated as below. To do so would result in your modem being operated in a non-compliant manner.

Modem Commands:

<u>Command</u>	<u>Default</u>	Permissible Range
ATA	-	Do not use
ATB	B0	Do not set to B1
AT&G	&G0	&G2
AT&P	&P0	&P1
ATSn <u>S register</u> s6	see table below <u>Default</u> 2	Permissible Range 2 to 6

Call Attempts/Retries:

Applications software shall be configured so that no more than 3 attempts are made to

establish a connection to a given number (Note: if the modem can detect service tones, up to 10 attempts can be made). If the call sequence is unsuccessful, there shall be a delay of at least 30 minutes before attempting to call the number again.

Failure to set the modem and any application software used with the modem, to the values

shown as above will result in the modern being operated in a non-compliant manner.

Consequently, this would be in violation of the Labeling Notice for this equipment, and the Telecommunications ACT 1997 prescribes penalties for the connection of non-compliant equipment.

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Chapter 1 Introduction

1.1 Introduction

Thank you for selecting the 56K V.90 modem with IC+ chipset. This modem with IC+ chipset is a hardware modem that uses the state-of-the-art single chip and Silicon DAA design. Besides, it has the advantages of high quality, high reliability, more compact and low cost. This modem with IC+ chipset is compatible with current Windows 98, ME, NT 4.0, 2000,XP operation systems because of its independent OS. Moreover, it follows the V.90 standard, so you can surf the Internet at 56K speed, but it depends on the condition of the telephone line and the ISP you connected to. We truly hope that our series products with IC+ chipset can meet your needs.

1.2 What's in the Package

- 56K V.90 Modem with IC+ Chipset
- CD-ROM (Comprises Application Software, Modem Drivers and User's Guide)
- Quick Guide for Installing Modem Drivers
- Phone Cord

Chapter 2 Specifications

Specifications:

Chipset (Internal type)	IC+ TP560x
Line Connection	PSTN, 2 Wires
Data Transmission Rate	ITU-T V.90
	56000/33600/28800/14400/9600/7200/4800/2400/
	1200/300 bps BELL 103 and BELL 212A
Fax Compatibility	Send/Receive G3 Fax, 14400/9600/4800 bps
Error Correction	MNP 2-4/V.42 LAPM
Data Compression	MNP 5/V.42 bis
Command Set	Enhanced AT Command, Fax Class 1
Communication Model	Asynchronous
DTE Speed (MAX)	115,200 bps
Transmit Level	-11(±1dBm)
Flow Control	XON/XOFF
	RTS/CTS
Dialing Mode	Touch Tone / Rotary Pulse (Countries depend)
Auto Dial & Auto Answer	YES
Noted Features	NVRAM Directory and Stored Profile,
	Speed Buffering, Auto Format/Speed sensing
	Auto Retrain
Telephone Interface	PSTN Line through RJ-11
Card Dimension	12.2mm*7.5mm*1.6mm
Applicable PTT Approval	Countries depend
Safety	FCC, CE

Features

IC+ single chip solution

Surf the Internet at blazing 56K speed

Independent OS - Compatible with Windows 98/ME/NT4.0/2000/XP

Fully software upgradeable

Chapter 3 Hardware Installation

1.Unplug the telephone from the wall socket, then plug the telephone into the socket on the back of the modem marked PHONE.

2.Plug the telephone cord supplied into the socket on the back of the modem marked LINE. 3.Plug the other end of the cord into the wall socket.



External Modern Diagram



Chapter 4 Software Installation

The following sections explain how to install the modem drivers under Windows 98/ME/NT4.0/2000/XP. Refer to the section, which best suites, your operating system.

4.1 Windows 95 B (OSR2)

1. Please insert the driver CD supplied when you see the message of **D-Link DFM-560EL External Modem**

appearing on the screen, then click Next to search for the driver.

Update Device Driver V	√izard
	This wizard will complete the installation of:
	D-Link DFM-560EL External Modem
	by searching your local drives, network, and Internet locations for the most current driver.
	If you have a disk or CD-ROM that came with this device, insert it now.
	It is recommended that you let Windows search for an updated driver. To do this, click Next to continue.
~	
	< Back Next> Cancel

2. Click **Other Locations...** to install from the installation disk.

Update Device Driver \	√izard
	Windows was unable to locate a driver for this device. If you do not want to install a driver now, click Finish. To search for a driver manually, click Other Locations. Or, to begin the automatic search again, click Back.
*	Other Locations
	< <u>B</u> ack Finish Cancel

3. Select the location of G: and click OK to continue. (G is the letter of CD-ROM drive).

Select Other Location		×
Type the name of the folder that contains the driver Browse.	ryou want. To search fo	r a folder, click
Location		Browse
	ок 💦	Cancel

4. Click **Finish** to end this installation procedure.

Update Device Driver W	∕izard
	Windows found the following updated driver for this device: D-Link DFM-560EL External Modem If you want to use this driver, click Finish. If this is not the correct driver and you want to search for a different driver manually, click Other Locations. Location of Driver
~	Other Locations
	< Back Finish Cancel

5. When you see the message of **Wave Device for Voice Modem**, then click **Next** to search the driver.



6. Click **Other Locations...** to install from the installation disk.

Update Device Driver V	√izard
	Windows was unable to locate a driver for this device. If you do not want to install a driver now, click Finish. To search for a driver manually, click Other Locations. Or, to begin the automatic search again, click Back.
^	Other Locations
	< <u>B</u> ack [Finish] Cancel

7. Select the location of G: and click OK to continue. (G is the letter of CD-ROM drive).

Select Other Location	×
Type the name of the folder that contains the driver you want. To search fo Browse.	r a folder, click
Location	
G:N	B <u>r</u> owse
ок 📐	Cancel

8. Click **Finish** to end this installation procedure.

Update Device Driver W	√izard
	Windows found the following updated driver for this device: Voice Modem Serial Wave Device If you want to use this driver, click Finish. If this is not the correct driver and you want to search for a different driver manually, click Other Locations. Location of Driver
~	Other Locations
	< Back Finish Cancel

4.2 Windows 98

1. Please insert the driver CD supplied when you see the message of **D-Link DFM-560EL External Modem**, then click **Next** to search for the driver.

Add New Hardware Wiz	ard
	This wizard searches for new drivers for: D-Link DFM-560EL External Modem A device driver is a software program that makes a hardware device work
	< Back Next > Cancel

2. Select the Search for the best driver for your device. [Recommended] and click Next to continue.

What do you want Windows to do?
 Search for the best driver for your device. (Recommended).
Display a list of all the drivers in a specific location, so you can select the driver you want.

3. Select the **CD-ROM drive** and click **Next** to start the search.

Add New Hardware Wiz	zard
	Windows will search for new drivers in its driver database on your hard drive, and in any of the following selected locations. Click Next to start the search. Eloppy disk drives CD-ROM drive Microsoft Windows Update Specify a Jocation: H:\ Browse
	< Back Next > Cancel

4. Click **Next** to start the installation.

Add New Hardware Wiz	ard
	Windows driver file search for the device:
	D-Link DFM-560EL External Modem
	Windows is now ready to install the best driver for this device. Click Back to select a different driver, or click Next to continue.
8 😒 😞	Location of driver:
	H:MCP.INF
	< Back Next > Cancel

٦

5. Click **Finish** to end this installation procedure.

Add New Hardware Wiz	ard
	D-Link DFM-560EL External Modem
	Windows has finished installing the software that your new hardware device requires.
۲.	
	< Back Finish Cancel

6. When you see the message of **Wave Device for Voice Modem**, then click **Next** to search the driver.

	This wizard searches for new drivers for:
	Wave Device for Voice Modem
	A device driver is a software program that makes a hardware device work.
🗞 🤕	

7. Select the Search for the best driver for your device. [Recommended] and click Next to continue.



8. Select the **CD-ROM drive** and click **Next** to start the search.

Add New Haldwale wiz	
	Windows will search for new drivers in its driver database on your hard drive, and in any of the following selected locations. Click Next to start the search.
	< Back Next > Cancel

9. Click **Next** to start the installation.



10. Click **Finish** to end this procedure.

Add New Hardwar	e Wizard
	Voice Modem Serial Wave Device Windows has finished installing the software that your new hardware device requires.
	< Back Finish Cancel

4.3 Windows ME

1. Please insert the driver CD supplied when you see the message of **D-Link DFM-560EL External Modem** appearing., select **Specify the location of the driver [Advanced]** then click **Next** to search for the driver.

Add New Hardware Wiza	rd
	Windows has found the following new hardware: D-Link DFM-560EL External Modem Windows can automatically search for and install software that supports your hardware. If your hardware came with installation media, insert it now and click Next. What would you like to do? Automatic search for a better driver (Recommended) Specify the location of the driver (Advanced)
	< Back Next > Cancel

2. Select the **Search for the best driver for your device. [Recommended]**, **Specify a location** and type in **H:**\ (H is the letter of the CD-ROM drive), then click **Next** to continue.

Add New Hardware Wizard	
	 Windows will search for new drivers in its driver database on your hard drive, and in any of the following selected Search for the best driver for your device. (Recommended). Removable Media (Floppy, CD-ROM) ✓ Specify a Jocation: H:\ Browse Display a list of all the drivers in a specific location, so you can select the driver you want.
	< Back Next > Cancel

3. Click **Next** to start the installation.



4. Click **Finish** to end this installation procedure.

Add New Hardware Wiz	ard
	D-Link DFM-560EL External Modem
	Windows has finished installing the new hardware device.
*	
	Keinish Cancel

5. When you see the message of **Wave Device for Voice Modem**, select **Specify the location of the driver [Advanced]** then click **Next** to install the wave device.

Add New Hardware Wizard	
	Windows has found the following new hardware: Wave Device for Voice Modem Windows can automatically search for and install software that supports your hardware. If your hardware came with installation media, insert it now and click Next. What would you like to do? Automatic search for a better driver (Recommended) Specify the location of the driver (Advanced)
	< Back Next > Cancel

6. Select the **Search for the best driver for your device. [Recommended]**, **Specify a location** and type in **H**:\ (H is the letter of the CD-ROM drive), then click **Next** to continue.

Add New Hardware Wizard	
	 Windows will search for new drivers in its driver database on your hard drive, and in any of the following selected Search for the best driver for your device. (Recommended). Removable Media (Floppy, CD-ROM) ✓ Specify a Jocation: H:\ ■ Browse Display a list of all the drivers in a specific location, so you can select the driver you want.
	< Back Next > Cancel

7. Click **Next** to start the installation.



8. Click **Finish** to end this procedure.

Add New Hardware Wizard	
	Voice Modem Serial Wave Device
	Windows has finished installing the new hardware device.
*	
	< Back Finish Cancel

4.4 Windows NT4.0

1. Please go to **Start>My Computer\ Control Panel**, then double-click on **Modems** icon to install a new modem.



2. Select **Don't detect my modem; I will select it from a list**, then click **Next** to continue. Install New Modem

 Windows NT will now try to detect your modem. Before continuing, you should: 1. If the modem is attached to your computer, make sure it is turned on. 2. Quit any programs that may be using the modem. Click Next when you are ready to continue. Image: Don't detect my modem; I will select it from a list.
< Back Next > Cancel

3. Click Have Disk... to install from the installation disk.

nstall New Modem	
Click the manufacturer or if you have an install	and model of your modem. If your modem is not listed, ation disk, click Have Disk.
Manufacturers:	Models
(Standard Modem Types) ▲ (VoiceView Modem Types) 3× Aceex Acer Allron	Dial-Up Networking Serial Cable between 2 PCs Standard 300 bps Modem Standard 1200 bps Modem Standard 2400 bps Modem Standard 9600 bps Modem Standard 14400 bps Modem Standard 19200 bps Modem
	< <u>B</u> ack <u>N</u> ext > Cancel

4. Select the location of **H**: and click **OK** to continue. (H is the letter of CD-ROM drive).

Install Fr	om Disk	×
_	Insert the manufacturer's installation disk into the drive selected, and then click OK.	Cancel
	Copy manufacturer's files from:	<u>B</u> rowse

5. Select **D-Link DFM-560EL External Modem** from the list of Models, then click Next to continue.

nstall N	ew Modem
	Click the manufacturer and model of your modem. If your modem is not listed, or if you have an installation disk, click Have Disk.
Modeļs D-Link	DFM-560EL External Modem
	<u>H</u> ave Disk
	< <u>B</u> ack <u>Next</u> Cancel

6. Select **Selected ports** and then **select COM port** that selected before. Click **Next** to start installing the selected modem.

Install New Modem	
	You have selected the following modem: D-Link DFM-560EL External Modem On which ports do you want to install it? All ports Selected ports COM1 COM2
	< <u>B</u> ack <u>N</u> ext > Cancel

7. Click **Finish** to complete the installation.

Install New Modem	
Install New Modem	Your modem has been set up successfully. If you want to change these settings, double-click the Modems icon in Control Panel, select this modem, and click Properties.
	< Back Finish Cancel

8. Click **Close** to end this procedure as you see the **D-Link DFM-560EL External Modem**. **NOTE**: If **Remote Access Service (RAS)** is installed on your computer, Windows NT will ask you to reconfigure Dial-Up Networking for the new Modem.

Modems Properties	<
General	
The following modems are set up on this computer:	
Modem Attached To	L
D-Link DFM-560EL External Modem COM1	
Add <u>R</u> emove <u>Properties</u>	
Dialing Preferences	
Dialing from: New Location	
Use Dialing Properties to modify how your calls are dialed.	
Dialing Properties	
Close Cancel	

9. Move your cursor as following sequence **Start\Settings\Control Panel** and click **Control Panel**. Then double-click on the **Network** icon to configure the **Dial-Up Networking**.



10. Click on the Services tab and select Remote Access Service, then click Properties. If you can't see Remote Access Service on the screen click Add to install Remote Access Service.

Identification Services Protocols Adapters Bindings Network Services: Computer Browser NetBIOS Interface NetBIOS Interface Remote Access Service RPC Configuration Server Workstation Vorkstation Add Bemove Properties Description: Enables users to work offsite as though connected directly to a network.	Network				? ×
Network Services: Computer Browser NetBIOS Interface Remote Access Service BPC Configuration Server Workstation Add Bemove Properties Update Description: Enables users to work offsite as though connected directly to a network.	Identification Ser	vices Protocols	s Adapters Bind	lings	
Computer Browser NetBIOS Interface Remote Access Service RPC Configuration Server Workstation Add Bemove Properties Update Description: Enables users to work offsite as though connected directly to a network.	Network Services	:			
NetBIOS Interface Remote Access Service RPC Configuration Server Workstation Add Remove Properties Update Description: Enables users to work offsite as though connected directly to a network.	E Computer Bro	owser			
 RPC Configuration Server Workstation Add <u>Remove</u> <u>Properties</u> <u>Update</u> Description: Enables users to work offsite as though connected directly to a network.	Remote Acc	arface ess Service			
Server Workstation Add Bemove Properties Update Description: Enables users to work offsite as though connected directly to a network.	🔜 RPC Configu	ration			
Add <u>Remove</u> <u>Properties</u> <u>Update</u> Description: Enables users to work offsite as though connected directly to a network.	Server				
Add <u>Remove</u> <u>Properties</u> <u>Update</u> Description: Enables users to work offsite as though connected directly to a network.					
Add <u>Remove</u> <u>Properties</u> <u>Update</u> Description: Enables users to work offsite as though connected directly to a network.					
Description: <u>K</u> Enables users to work offsite as though connected directly to a network.	<u>A</u> dd	<u>R</u> emove	Properties	<u>U</u> pdate	
Enables users to work offsite as though connected directly to a network.	Description:		4		
	Enables users to network.	o work offsite as	though connected	directly to	a
OK Cancel			OK	Car	ncel

11. Click on the Add button to add modem. If there is any modem in the list, please click Remove first.

emote.	Access Setu	գլ		
<u>P</u> ort	Device	Туре		
			C	ontinue
				Cancel
			<u>N</u> e	stwork
				<u>H</u> elp

12. Select D-Link DFM-560EL External Modem , then click OK to confirm the settings.

Add RAS Device	×
RAS Capable <u>D</u> evices:	ОК
COM1 - D-Link DFM-560EL External Mc	Cancel
	<u>H</u> elp
	Install <u>M</u> odem
	Install X25 <u>P</u> ad

13. Click **Configure...** to configure port usage.

Remote Acces	s Setup		×
<u>P</u> ort	Device	Туре	
COM1	D-Link DFM-560EL External	Modem (unimodem)	Continue
			Cancel
			Network
			<u>H</u> elp
<u>A</u> dd	<u>R</u> emove <u>C</u> onfigure	Clone	

14. Select **Dial out only** for Port Usage and click **OK** to confirm the settings.

Configure	Port Usage	×
Port: Device: Port Us O Dial O <u>B</u> ec O <u>D</u> ial	COM1 D-Link DFM-560EL External Modem age Lout only ceive calls only lout and Receive calls	Cancel <u>H</u> elp

15. Click **Network...** to configure the network.

Remote A	ccess Setup		×
<u>P</u> ort	Device	Туре	
COM1	D-Link DFM-560E	L External Mode	em (unimodem) Continue
			Cancel
			Network
			<u>H</u> elp
<u>A</u> dd	<u>R</u> emove <u>C</u> o	nfigure Clo	one

16. Select **TCP/IP** lick **OK** to confirm the settings.

Dial out Protocols:	ОК
	Canaal
	Lancei
	<u>H</u> elp

17. Click **Continue** to complete the setup.

Remote Access	Setup		×
<u>P</u> ort	Device	Туре	
COM1	D-Link DFM-560EL External	. Modem (unimodem)	Continue Cancel Network
<u>A</u> dd	<u>R</u> emove <u>C</u> onfigure	Clone	

18. Click Yes restart Windows NT.

Netwo	rk Settings Change 🛛 🛛 🔀
	You must shut down and restart your computer before the new settings will take effect.
	Do you want to restart your computer now?

19. After restarting your computer, please double-click on the **My Computer** icon on the desktop and double-click on the **Dial-Up Networking** icon.

🚇 Му Сог	mputer			_ 🗆	×
<u>F</u> ile <u>E</u> dit	<u>V</u> iew <u>H</u> elp				
			•	77	
3½ Floppy (A:)	(C:)	(D:)	Ntwks40a (E:)	Control Panel	
3					
Printers	Dial-Up Networking				
	42				
1 object(s) s	elected				11.

20. If your phonebook is empty, please click **OK** to add an entry.

Dial-Up	o Networking 🛛 🗙			
i	The phonebook is empty.			
v	Press OK to add an entry.			
OK				

21. You may use the name provided or enter a different one, then click **Next**.



22. Select The non-Windows NT server I am calling...then click Next.

Server	
	Check all that apply: Image: am calling the Internet. Image: send my plain text password if that's the only way to connect. Image: send my plain text password if that's the only way to connect. Image: send my plain text password if that's the only way to connect. Image: send my plain text password if that's the only way to connect. Image: send my plain text password if that's the only way to connect. Image: send my plain text password if that's the only way to connect. Image: send my plain text password if that's the only way to connect. Image: send my plain text password if that's the only way to connect. Image: send my plain text password if that's the only way to connect. Image: send my plain text password if that's the only way to connect. Image: send my plain text password if that's the only way to connect. Image: send my plain text password if that's the only way to connect. Image: send my plain text password if that's the only way to connect. Image: send my plain text password if that's the only way the text password if that's text password if text pa
	< <u>B</u> ack <u>N</u> ext > Cancel

23. Enter the phone number of your local ISP and click Next.

Phone Number		×	
	Enter the phone number of the dial-up server you are calling. Alternate phone numbers, if any, are dialed automatically if the primary phone number cannot be reached. They may also be used to set different numbers on individual multi-linked ISDN lines.		
T	Phone number: 4125678 Alternates		
	□ Use Telephony dialing properties	_	
	< Back Next > Cancel		

24. Select Point-to-Point Protocol (PPP) and click Next.

Serial Line Protocol		×
	Choose the serial line protocol offered by the server you are calling.	
	 Serial Line Internet Protocol (SLIP) An older protocol specific to TCP/IP networks. 	
	< Back Next > Cancel	

25. Consult with your local ISP for the choice and click Next.



26. Enter your IP address if you have a fixed one or leave the value: **0.0.0.0**, then click **Next**.

IP Address	×
	Enter your workstation's IP address on the remote network, or if you expect the server to provide the address, set 0.0.0.0. Usually the remote network operator will tell you what to use.
T T	My <u>I</u> P address:
	Note: If you have a network adapter installed, you should NOT choose the same address as your network adapter.
	< <u>B</u> ack <u>N</u> ext > Cancel

27. Enter the IP addresses of a **DNS** and/or **WINS** server for your local ISP or set **0.0.0.0** if you are not sure. Then click **Next**.



28. Click Finish.

New Phonebook	Entry Wizard
	That's it. Press Finish to save "MyDialUpServer".
	< Back Finish Cancel

29. Click on the More buttons and select Edit entry and modem properties.

🥵 Dial-Up Networking			? ×
	Phonebook entry to dial: MyDialUpServer	<u>N</u> ew	More A
Ť	Phone number pre <u>v</u> iew: 4125678 Dialing fr <u>o</u> m:		Edit entry and modem properties Clone entry and modem properties R Delete entry Create shortcut to entry Monitor status
		Dial	Operator assisted or manual dialing User preferences Logon preferences <u>H</u> elp <u>C</u> lose

30. Select **D-Link DFM-560EL External Modem (COM3)** from Dial using list and click on the **Configure** button.._____

Edit Phonebook	Entry			? ×
Basic	Server	Script	Security	X.25
<u>E</u> ntry name: Co <u>m</u> ment:	MyDialUpSe	erver		
Phone <u>n</u> umber:	4125678 □ <u>U</u> se Tele	phony dialing) properties	<u>A</u> lternates
<u>D</u> ial using:	D-Link DFM ☑ U <u>s</u> e ano	I-560EL Exter ther port if bu	nal Moder 💌 sy	Configure
			OK	Cancel

31. Enable all the Hardware Features and select 115200 from Initial speed(bps) list, then click OK.

Modem Configuratio	? ×	
D-Link DFM-560EL E	xternal M	odem (COM
Initial speed (bps):	115200	•
-Hardware Features	1200 2400	
🔽 Enable hardwa	4800	
🔽 Enable modem	19200	
🔽 Enable moder	38400 57600	
	115200	
Disable modem <u>s</u>	peaker	
	ж 💦	Cancel

32. Click on the Server tab and enable three options of TCP/IP, Enable software compression and Enable PPP LCP extensions.

Edit Phonebook Entry				? ×
Basic Server	Script	Security	1 ×	(.25)
Dial-up <u>s</u> erver type:				
PPP: Windows NT, Windows	95 Plus, Inter	net	•	
- Network protocols				
	T <u>C</u> P/IP	Settings		
IPX/SPX compatible				
□ <u>N</u> etBEUI				
 ✓ Enable software compressi ✓ Enable PPP LCP extension 	ion			
		ОК		Cancel

33. Click on the **Security** tab and enable the option: **Accept any authentication including clear text**, then click **OK**.

Edit Phonebook Entry	? ×
Authentication and encryption policy	
Accept any authentication including clear text	
C Accept only encrypted authentication	
C Accept only Microsoft encrypted authentication	
Require data encryption	
☐ ∐se current username and password	
Unsave <u>p</u> assword	
ОК	Cancel

34. Click **Dial** to connect to.

Solution States	? ×
	Phonebook entry to dial: MyDialUpServer ✓ <u>N</u> ew <u>M</u> ore ▼
	Phone number pre <u>v</u> iew: 4125678 Dialing from: New Location
	<u>D</u> ial <u>C</u> lose
35. Enter **User name** and **Password** and click **OK**, and the modem will dial out to your ISP and get a connection.

Connect	to MyDialUpServer	?	×
Enter a user remote netwo	name and password with access to ork domain.	the	
<u>U</u> ser name:	Administrator		
Password:	xxxxx		
<u>D</u> omain:			
	Save password		
	OK Car	ncel]

4.5 Windows 2000

1. Windows will detect the modem automatic, please insert the driver CD supplied and click **Next**.

Welcome to the Found New Hardware Wizard This wizard helps you install a device driver for a hardware device.
< Back Next > Cancel

2. Select Search for a suitable driver for my device [recommended], then click Next. Found New Hardware Wizard

Install Hardware Device Drivers

A device driver is a software program that enables a hardware device to work with an operating system.





D-Link DFM-560EL External Modem

A device driver is a software program that makes a hardware device work. Windows needs driver files for your new device. To locate driver files and complete the installation click Next.

What do you want the wizard to do?

- Search for a suitable driver for my device (recommended)
- Display a list of the known drivers for this device so that I can choose a specific driver



3. Select **CD-ROM drives**, then click **Next**.

Found New Hardware Wizard				
Locate Driver Files Where do you want Windows to search for driver files?				
Search for driver files for the following hardware device:				
D-Link DFM-560EL External Modem				
The wizard searches for suitable drivers in its driver database on your computer and in any of the following optional search locations that you specify.				
To start the search, click Next. If you are searching on a floppy disk or CD-ROM drive, insert the floppy disk or CD before clicking Next.				
Optional search locations:				
Floppy <u>d</u> isk drives				
CD-ROM drives				
Specify a location				
Microsoft Windows Update				
< <u>B</u> ack <u>N</u> ext >				

4. Windows will found a driver for this device, then click **Next**.

Found New Hardware Wizard				
Driver Files Search Results The wizard has finished searching for driver files for your hardware device.				
The wizard found a driver for the following device:				
D-Link DFM-560EL External Modem				
Windows found a driver for this device. To install the driver Windows found, click Next.				
h:Nicp.inf				
< Back Next> Cancel				

5. Click **Yes** to continue.



6. Click **Finish** to end this procedure.

Found New Hardware Wizard	
	Completing the Found New Hardware Wizard Image: D-Link DFM-560EL External Modem Image: Windows has finished installing the software for this device. Yes the software for this device.
	< Back Finish Cancel

4.6 Windows XP

1. Please insert the driver CD supplied when you see the message of **D-Link DFM-560EL External Modem**, Select the **Install from a list or specific location [Advanced]** then click **Next** to search for the driver.

Found New Hardware Wizard			
	Welcome to the Found New Hardware Wizard		
	This wizard helps you install software for:		
	D-Link DFM-560EL External Modem		
	If your hardware came with an installation CD or floppy disk, insert it now.		
	What do you want the wizard to do?		
	 Install the software automatically (Recommended) Install from a list or specific location (Advanced) 		
	Click Next to continue.		
	< Back Next > Cancel		

2. Select **Include this location in the search:** and type in **H:**\ (H is the letter of the CD-ROM drive) or use **Browse** to search, then click **Next** to continue.

Found New Hardware Wizard				
Please choose your search and installation options.				
 Search for the best driver in these locations. 				
Use the check boxes below to limit or expand the default search, which includes local paths and removable media. The best driver found will be installed.				
Search removable media (floppy, CD-ROM)				
Include this location in the search:				
H:\ Browse				
O Don't search. I will choose the driver to install.				
Choose this option to select the device driver from a list. Windows does not guarantee that the driver you choose will be the best match for your hardware.				
< Back Next > Cancel				

3. Click **Continue Anyway** to continue.

Hardware Installation			
<u>.</u>	The software you are installing for this hardware: D-Link DFM-560EL External Modem		
	has not passed Windows Logo testing to verify its compatibility with Windows XP. (<u>Tell me why this testing is important.</u>)		
	with Windows XP. (Tell me why this testing is important.) Continuing your installation of this software may impair or destabilize the correct operation of your system either immediately or in the future. Microsoft strongly recommends that you stop this installation now and contact the hardware vendor for software that has passed Windows Logo testing.		
	Continue Anyway STOP Installation		

4. Click **Finish** to end this procedure.

Hardware Update Wizard		
	Completing the Hardware Update Wizard	
	The wizard has finished installing the software for:	
	D-Link DFM-560EL External Modem	
	Click Finish to close the wizard.	
	K Back Finish Cancel	

Chapter 5 Diagnostics

5.1 Windows 95/98/ME

1. Please go to Start\ Settings\ Control Panel and double-click on the Modems icon.



2. To test the modem by clicking on the **Diagnostics** tab. Then select the **COM Port** where Topic Modem is setting and click on the **More Info...** button to start the test.

Modems Pr	operties				? ×
General	Diagnostics				
Windows detected the following ports, and has already installed the following devices:					
Port	Ins	talled			
🚷 СОМ	1 D-I	_ink DFM-56	0EL Externa	al Modern	
2 сом	2 No	Modem Inst	alled		- 11
L					
<u>D</u> ri	iver	<u>M</u> ore In	fo	<u>H</u> elp	
			OK	Car	ncel

3. If your modem is responding to AT commands and functioning correctly, it means that your modem is working properly. Click **OK** to end this procedure.

More Info				
_	- Port Information			
	Port:	COM1		
	Interrupt	4		
	Addroos:	200		
	Address:			
	UART:	NS 1655UAN		
	Highest Speed : 115K Baud			
	- D-LINK DEM-560	JEL External Modem		
	Identifier:	SERENUM/TOP0001		
	Command	Response		
	Command ATI1	Response External Controller Ver3.00, CheckSum=A		
	Command ATI1 ATI2	Response External Controller Ver3.00, CheckSum=A TEST OK!		
	Command ATI1 ATI2 ATI3 ATI4	Response External Controller Ver3.00, CheckSum=A TEST OK! D-Link DFM-560EL External Modem DSP Ver2.00 CheckSum=7555		
	Command ATI1 ATI2 ATI3 ATI3 ATI4 ATI5	Response External Controller Ver3.00, CheckSum=A TEST OK! D-Link DFM-560EL External Modem DSP Ver3.00 CheckSum=75FF Australia		
	Command ATI1 ATI2 ATI3 ATI3 ATI4 ATI5 ATI6	Response External Controller Ver3.00, CheckSum=A TEST OK! D-Link DFM-560EL External Modem DSP Ver3.00 CheckSum=75FF Australia 0		
	Command ATI1 ATI2 ATI3 ATI3 ATI4 ATI5 ATI6 ATI7	Response External Controller Ver3.00, CheckSum=A TEST OK! D-Link DFM-560EL External Modem DSP Ver3.00 CheckSum=75FF Australia 0 Controller Ver3.1 Date:Jun 28 14:14 2002		
	Command ATI1 ATI2 ATI3 ATI3 ATI4 ATI5 ATI6 ATI7 AT+FCLA	Response External Controller Ver3.00, CheckSum=A TEST 0K! D-Link DFM-560EL External Modem DSP Ver3.00 CheckSum=75FF Australia 0 Controller Ver3.1 Date:Jun 28 14:14 2002 0,1,8		
	Command ATI1 ATI2 ATI3 ATI4 ATI5 ATI5 ATI6 ATI7 AT+FCLA	Response External Controller Ver3.00, CheckSum=A TEST OK! D-Link DFM-560EL External Modem DSP Ver3.00 CheckSum=75FF Australia 0 Controller Ver3.1 Date:Jun 28 14:14 2002 0,1,8		

5.2 Windows 2000

1. Move your cursor as following sequence **Start**\ **Settings**\ **Control Panel** and click **Control Panel**. Then double-click on the **Phone and Modem Options** icon.



2. Click Modems tab, then select D-Link DFM-560EL External Modem and click Properties.
Phone And Modem Options

Dialing Rules Modems Advanced			
The following modems are installed:			
Modem	Attached To		
D-Link DFM-560EL External Modem	COM1		
Add	Bemove Properties		
OK	Cancel Apply		

3. Click **Diagnostics** tab, then click **Query Modem**.

D-Link DFM-560EL External Modem Properties
General Diagnostics Advanced
Modem Information
Field Value
Hardware ID SERENUM\TOP0001
Command Response
Query Modern
Append to Log
OK Cancel

4. If your modem is responding to AT commands and functioning correctly, it means that your modem is working properly. Click **OK**.

D-Link DFM-560EL External Modem Properties 🛛 📍 🗙					
General Diagnostics Advanced					
Modem Information					
Field Value Hardware ID SERENUM\TOP0001					
Command Response					
ATQ0V1E0 OK AT+GMM COMMAND NOT SUPPORTED AT+FCLASS=? 0,1,8 AT#CLS=? COMMAND NOT SUPPORTED					
Query Modem					
Logging Append to Log					
OK Cancel					

5.3 Windows XP

1. Move your cursor as following sequence **Start**\ **Settings**\ **Control Panel**. Click on the **System** icon.

🖻 Control Panel								. 🗗 🔀
File Edit View Favorites Tools	Help							1
() === · () · () / / s	earch 🜔 Fol	ders 💷-						
Address 🕞 Control Panel							Y	🔁 Go
Control Panel (E) Switch to Category Wew	Accessibility Options	Rdd Hardware	Add or Remov	Administrative Tools	Date and Time	Display	Folder Options	
See Also (*)	Fonts	Game Controllers	Internet Options	is Keyboard	Mouse	Network Connections	Phone and Modern	
🕑 Help and Support	Power Options	Printers and Proces	Regional and Language	Scamers and Cameras	Scheduled Tasks	Sounds and Audio Devices	Speech	
	No.	Taskbar and Start Neru	State Accounts					
	-16							

2. Click **Hardware** tab and select the modem, then click **Device Manager**.

em Properties			
System Restore	Automat	ic Updates	Remote
General Comp	outer Name	Hardware	Advanced
Add Hardware Wizard The Add Har	dware Wizard he	lps you install hard	ware.
Device Manager The Device Manager on your comp properties of a	Manager lists all t outer. Use the De any device.	he hardware devic vice Manager to c	es installed hange the
Driver	Signing	Device M	anager
Hardware Profiles			
Hardware pro different hard	files provide a w ware configuratio	ay for you to set up ins.	and store
		Hardware	Profiles
	ОК	Cancel	Apply

3. Click **Modems** tab and select the modem. Then double-click on the **D-Link DFM-560EL External Modem**.

By Device Manager	
File Action View Help	
MADDUX Computer Disk drives Display adapters DVD/CD-ROM drives Floppy disk controllers Floppy disk drives DLE ATA/ATAPI controllers Keyboards Mice and other pointing devices Modems DLink DFM-560EL External Modem Monitors Ports (COM & LPT) Processors Sound, video and game controllers System devices Universal Serial Bus controllers	

4. Click **Diagnostics** tab, then click **Query Modem**.

D-Link DFM-560EL External Modem Properties 🛛 🔹 💽
General Modem Diagnostics Advanced Driver
Modem Information
Field Value
Hardware ID SERENUM (10P0001
Command Response
Query Modem
Logging
Append to Log View log
UK

5. If your modem is responding to AT commands and functioning correctly, it means that your modem is working properly. Click **OK**.

D-Link DFM-560EL External Modem Properties	? 🗙
General Modem Diagnostics Advanced Driver	
Modem Information	
Field Value Hardware ID SERENUM\TOP0001	
Command Response ATQ0V1E0 Success AT+GMM COMMAND NOT SUPPORTED AT+FCLASS=? 0,1,8 AT#CLS=? COMMAND NOT SUPPORTED <	
Query Modem	
Logging Append to Log	
	ancel

Chapter 6 Uninstalling

6.1 Windows 95/98/ME

1. Please go to Start\ Settings\ Control Panel and double-click on the modems icon.



E

2. Select **D-Link DFM-560EL External Modem**. then click **Remove**.

odems Properties	×
General Diagnostics	
The following modems are set up on this computer:	
D-Link DFM-560EL External Modem	
Add Remove Properties	
Dialing preferences	
Dialing from: New Location	
Click Dialing Properties to modify how your calls are dialed.	
Dialing Properties	
OK Cancel	

3. Click Close.

Modems Properties ?×
General Diagnostics
The following modems are set up on this computer:
Add Remove Properties
Dialing preferences
Dialing from: New Location
Click Dialing Properties to modify how your calls are dialed.
Dialing Properties
Close Cancel

6.2 Windows NT 4.0

1. Please go to **Start**\ **My Computer**\ **Control Panel**, then double-click on **Modems** icon to install a new modem.



2. Select D-Link DFM-560EL External Modem then click Remove.

Modems Properties 🛛 🕐 🗙
General
The following modems are set up on this computer:
Modem Attached To
D-Link DFM-560EL External Modem COM1
Add <u>R</u> emove <u>Properties</u>
Dialing Preferences
Dialing from: New Location
Use Dialing Properties to modify how your calls are dialed.
Dialing Properties
Close Cancel

3. Click Yes.

Modem S	ietup 🛛 🕅
?	Are you sure you want to remove the modem 'D-Link DFM-560EL External Modem' from your system?
	Yes No

4. Click Close.

Modems Properties
General
The following modems are set up on this computer:
Modem Attached 1
▲dd Bemove Properties
Dialing Preferences
Dialing from: New Location
Use Dialing Properties to modify how your calls are dialed.
Dialing Properties
Close Cancel

6.3 Windows 2000

1. Move your cursor as following sequence **Start**\ **Settings**\ **Control Panel**. Then double-click on the **Add/Remove Hardware** icon.



2. Click Next.



3. Select Uninstall\ Unplug a device, then click Next.

Choose a Hardware Task Which hardware task do you want to perfo	m?
 Select the hardware task you want to perform the context of the cont	rm, and then click Next. new device to your computer or are having or to prepare the computer to unplug a
	< Back Next > Cancel

4. Select **Uninstall a device** and click **Next** to continue

Choose a Removal Task You can remove a device permanently	or temporarily.		ENT.
 Select the removal task you want to per Uninstall a device Choose this option to permanently Unplug/Eject a device Choose this option to temporarily 	form, and then click t y uninstall a device ar unplug or eject a dev	Next. nd its driver. ice.	

5. Select **D-Link DFM-560EL External Modem**, then click **Next** to continue.

Add/Remove Hardware Wizard	
Installed Devices on Your Computer The following hardware is installed on your c	computer.
Select the device you want to uninstall.	
Devices	
🚭 Intel(r) 82801BA Ultra ATA Controller	
📇 Intel(R) 82801BA PCI Bridge - 244E	
🔁 Primary IDE Channel	
Secondary IDE Channel	
📃 Logical Disk Manager	
Parallel Class Enumerator	
WD-Link DFM-560EL External Modem	
Show hidden devices	
	< Back Next > Cancel
	V

6. Select **YES**, **I** want to uninstall this device, then click **Next** to continue.

Add/Remove Hardware Wizard	
Uninstall a Device Confirm that you want to uninstall this device.	
 D-Link DFM-560EL External Modem Are you sure that you want to uninstall this device? Yes, I want to uninstall this device No, I do not want to uninstall this device 	
< Back Next >	Cancel

7.	Click Finish to end this procedu Add/Remove Hardw	ire. vare Wizard
		Completing the Add/Remove Hardware Wizard You have successfully completed the Add/Remove Hardware wizard.
		Windows successfully uninstalled the selected device.
		To close this wizard, click Finish.
		K Back Finish Cancel

6.4 Windows XP

1. Move your cursor as following sequence **Start**\ **Settings**\ **Control Panel**. Click on the **System** icon.

🖻 Control Panel								. 🗗 🔀
File Edit View Favorites Tools	Help		1. IU					AV.
() === · () · () / / s	earch 🜔 Fol	ders 💷 -						
Address 🕞 Control Panel							~	🔁 Go
Control Panel (8)	Accessibility Options	Rdd Hardware	Add or Remov	Administrative Tools	Date and Time	Display	Folder Options	
Constant (B)	10	and and		1	3			
See Also	Fonts	Game Controllers	Internet Options	Keyboard	Mouse	Network. Connections	Phone and Modem	
Help and Support	-		۲	3	10	O,	3	
	Power Options	Printers and Paces	Regional and Language	Scanners and Cameras	Scheduled Tasks	Sounds and Audio Devices	Speech	
	8		92					
	Byeiters	Taskbar and Start Menu	User Accounts					

2. Click **Hardware** tab and select the modem, then click **Device Manager**.

System Properties			? 🔀
System Restore	Automatic Updates		Remote
General Compu	uter Name Hardware		Advanced
Add Hardware Wizard The Add Hardw	ware Wizard help	s you install hardw Add Hardware	are. • Wizard
Device Manager The Device M on your compu properties of a	anager lists all the iter. Use the Dev ny device.	e hardware device ice Manager to ch	s installed ange the
Drivers	signing	Device Mar	nager
Hardware Profiles Hardware profi different hardw	iles provide a way vare configuration) for you to set up a s.	and store
		Hardware P	rofiles
	ОК	Cancel	Apply

3. Click **Modems** tab and select the modem. Then double-click on the **D-Link DFM-560EL External Modem**.

🖴 Device Manager	
File Action View Help	
MADDUX Computer Disk drives Display adapters DVD/CD-ROM drives Floppy disk controllers Floppy disk drives DVD/CD-ROM drives Floppy disk controllers DVD/CD-ROM drives Floppy disk controllers Note and other pointing devices Modems D-Link DFM-560EL External Modem Monitors Ports (COM & LPT) Processors Sound, video and game controllers System devices Universal Serial Bus controllers	

4. Click **Driver** tab, then click **Uninstall**.

D-Link DFM-560EL External Modem Properties 🛛 🛛 🔀				
General Modem Diagnostics Advanced Driver				
D-Link DFM-560EL External Modem				
Driver Provider: IC Plus Semiconductor Corp				
Driver Date: 10/2/2001				
Driver Version: 1.3.0.0				
Digital Signer: Not digitally signed				
Driver Details To view details about the driver files.				
Update Driver To update the driver for this device.				
Roll Back Driver If the device fails after updating the driver, roll back to the previously installed driver.				
Uninstall To uninstall the driver (Advanced).				
OK Cancel				

5. Click **OK** to end this procedure.



Chapter 7 Troubleshooting

Modem will not dial-out

- Check your phone cable connected properly into LINE jack.
- If you use the Tone-dialing on a line, but required the Pulse-dialing method, please change the command T to P in your dial command line.

Modem will not answer an incoming call

- Check your phone cable connected properly into LINE jack.
- By connect a Telephone to the PHONE jack. The attached telephone will ring if you try calling from another telephone line.
- Configured the modem to Auto-answer modem.

No connection after modem dial out

- Remote modem may be not setting to answer mode, if you aren't hearing a high-pitch tone when remote modem answering.
- Perhaps poor-quality or noise telephone lines try another call.

Data error when modem connection

- Make sure your software data format is match to remote side (for example: 8,N, 1).
- Make sure the modem flow control method is matched to communication software.
- Try another call may be poor quality or noise telephone lines.

Fax and voice problems

• Be sure the Data Communication is installed and worked properly, otherwise check the mentioned procedure carefully and consult the Fax/Voice manual step by step.

Chapter 8 Commands

Most people use the communication software programs to tell modems what to do. Therefore, you may not use the commands in this chapter. However, if you prefer to communicate with your modem directly, you can type the commands described below. Here describes how to work in the terminal mode.

8.1 Typing Commands

- Use the BACKSPACE key to delete typing errors.
- Every command (except A/ and +++) must begin with the AT or at prefix and be entered by pressing the <Enter> key. For example, to execute the V command, you would type ATV and press the <Enter> key.
- When you see an n, replace the n with one of the letter or numeric options listed for that command. For example, for the En Command, you might type ATE1.

8.2 AT Commands

- A Go off-hook and attempt to answer a call.
- &Cn Control Carrier Detect (CD) Signal
- &C0 CD override
- &C1 Normal CD operations

Dn Dial

- 0-9 DTMF digits 0 to 9
- P Pulse (rotary) dial
- T Tone dial
- W Wait for second dial tone

&Dn DTR Option

- &D0 Ignore an on-to-off transition of DTR
- &D1 Switch to on-line command mode without disconnection
- &D2 Normal DTR operations.

&F Load Factory Configuration (Profile)

Hn Disconnect (Hang-up)

- H0 Hang up (go on-hook)
- H1 Go off-hook

In Identification

- I0 Report product code
- I3 Report OEM defined identifier string
- I4 Report firmwave version

Mn Speaker Control

- M0 Speaker is always off
- M1 Speaker ON until CONNECT
- M2 Speaker is always on
- M3 Speaker off during \mathcal{I} dialing and receiving carrier and turn Speaker on during answering.

On Return to On-Line Data Mode

- O0 Go on-line
- O1 Go on-line and restrain

8.3 S-Register Definitions

Sr=n Set Register r to n

Sr? Display contents of S-Register

S0 Number of Rings to Auto-Answer

The number of ring the modem waits for before it auto Answers. Range 0-255 (rings) Default 0 (Country dependent)

S6 Wait Time before Blind Dialing

The time to pause after off-hook before blind dialing.Range2-255Default2 (Seconds, Country dependent)

S8 Pause Time For Dial Delay

The time to pause for the pause dial modifier, "Comma"Range0-255Default2 (seconds)

S9 Carrier Detect Response Time

The time a signal is detected an qualified as a carrier. This timing lets your modem ignore spurious signals that are the same frequency as the carrier. Higher S9 Values reduce the chance of a carrier being detected. Ranges 1-255 Default 6 (0.6 seconds)

S10 Lost Carrier To Hang Up Delay

The time the modem waits before hanging up for carrier loss.Range1-255Default14 (1.4 seconds)

S11 DTMF Tone Duration

The time for DTMF tone dialing and the time between the tone Spacing. Range 5-255 Default 95 (ms, Country dependent)

LIMITED WARRANTY

D-Link provides this limited warranty for its product only to the person or entity who originally purchased the product from D-Link or its authorized reseller or distributor.

Limited Hardware Warranty: D-Link warrants that the hardware portion of the D-Link products described below ("Hardware") will be free from material defects in workmanship and materials from the date of original retail purchase of the Hardware, for the period set forth below applicable to the product type ("Warranty Period") if the Hardware is used and serviced in accordance with applicable documentation; provided that a completed Registration Card is returned to an Authorized D-Link Service Office within ninety (90) days after the date of original retail purchase of the Hardware. If a completed Registration Card is not received by an authorized D-Link Service Office within such ninety (90) period, then the Warranty Period shall be ninety (90) days from the date of purchase.

Product Type	Warranty Period
Product (excluding power supplies and fans)	One (1) Year
Power Supplies and Fans	One (1) Year
Spare parts and spare kits	Ninety (90) days

D-Link's sole obligation shall be to repair or replace the defective Hardware at no charge to the original owner. Such repair or replacement will be rendered by D-Link at an Authorized D-Link Service Office. The replacement Hardware need not be new or of an identical make, model or part; D-Link may in its discretion may 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. The Warranty Period shall extend for an additional ninety (90) days after any repaired or replaced Hardware is delivered. If a material defect is incapable of correction, or if D-Link determines in its sole discretion that it is not practical to repair or replace the defective Hardware, the 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 delivery of the Software for a period of ninety (90) days ("Warranty Period"), if the Software is properly installed on approved hardware and operated as contemplated in its documentation. D-Link further warrants that, during the Warranty Period, the magnetic media on which D-Link delivers the Software will be free of physical defects. D-Link's sole obligation shall be to replace the non-conforming Software (or defective media) with software that substantially conforms to D-Link's functional specifications for 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. The Warranty Period shall extend for an additional ninety (90) days after any replacement Software is delivered. If a material 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.

What You Must Do For Warranty Service:

<u>Registration Card</u>. The Registration Card provided at the back of this manual must be completed and returned to an Authorized D-Link Service Office for each D-Link product within ninety (90) days after the product is purchased and/or licensed. The addresses/telephone/fax list of the nearest Authorized D-Link Service Office is provided in the back of this manual. FAILURE TO PROPERLY COMPLETE AND TIMELY RETURN THE REGISTRATION CARD MAY AFFECT THE WARRANTY FOR THIS PRODUCT.

<u>Submitting A Claim</u>. Any claim under this limited warranty must be submitted in writing before the end of the Warranty Period to an Authorized D-Link Service Office. The claim must include a written description of the Hardware defect or Software nonconformance in sufficient detail to allow D-Link to confirm the same. The original product owner must obtain a Return Material Authorization (RMA) number from the Authorized D-Link Service Office and, if requested, provide written proof of purchase of the product (such as a copy of the dated purchase invoice for the product) before the warranty service is provided. 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. The packaged product shall be insured and shipped to D-Link, 53 Discovery Drive, Irvine CA 92618, with all shipping costs prepaid. 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:

This limited warranty provided by D-Link does not cover:

Products that 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; and any hardware, software, firmware or other products or services provided by anyone other than D-Link.

Disclaimer of Other Warranties: EXCEPT FOR THE LIMITED WARRANTY SPECIFIED HEREIN, THE PRODUCT IS PROVIDED "AS-IS" WITHOUT ANY WARRANTY OF ANY KIND INCLUDING, WITHOUT LIMITATION, ANY WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NON-INFRINGEMENT. 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 NINETY (90) DAYS. 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. Limitation of Liability: 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, WORK STOPPAGE, COMPUTER FAILURE OR MALFUNCTION, 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 NON-CONFORMING PRODUCT.

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 the product owner may also have other rights which vary from state to state.

Wichtige Sicherheitshinweise

- 1. Bitte lesen Sie sich diese Hinweise sorgfältig durch.
- 2. Heben Sie diese Anleitung für den spätern Gebrauch auf.
- Vor jedem Reinigen ist das Gerät vom Stromnetz zu trennen. Vervenden Sie keine Flüssig- oder Aerosolreiniger. Am besten dient ein angefeuchtetes Tuch zur Reinigung.
- 4. Um eine Beschädigung des Gerätes zu vermeiden sollten Sie nur Zubehörteile verwenden, die vom Hersteller zugelassen sind.
- 5. Das Gerät is vor Feuchtigkeit zu schützen.
- 6. Bei der Aufstellung des Gerätes ist auf sichern Stand zu achten. Ein Kippen oder Fallen könnte Verletzungen hervorrufen. Verwenden Sie nur sichere Standorte und beachten Sie die Aufstellhinweise des Herstellers.
- Die Belüftungsöffnungen dienen zur Luftzirkulation die das Gerät vor Überhitzung schützt. Sorgen Sie dafür, daß diese Öffnungen nicht abgedeckt werden.
- 8. Beachten Sie beim Anschluß an das Stromnetz die Anschlußwerte.
- 9. Die Netzanschlußsteckdose muß aus Gründen der elektrischen Sicherheit einen Schutzleiterkontakt haben.
- Verlegen Sie die Netzanschlußleitung so, daß niemand darüber fallen kann. Es sollete auch nichts auf der Leitung abgestellt werden.
- 11. Alle Hinweise und Warnungen die sich am Geräten befinden sind zu beachten.
- 12. Wird das Gerät über einen längeren Zeitraum nicht benutzt, sollten Sie es vom Stromnetz trennen. Somit wird im Falle einer Überspannung eine Beschädigung vermieden.

- Durch die Lüftungsöffnungen dürfen niemals Gegenstände oder Flüssigkeiten in das Gerät gelangen. Dies könnte einen Brand bzw. Elektrischen Schlag auslösen.
- Offnen Sie niemals das Gerät. Das Gerät darf aus Gründen der elektrischen Sicherheit nur von authorisiertem Servicepersonal geöffnet werden.
- 15. Wenn folgende Situationen auftreten ist das Gerät vom Stromnetz zu trennen und von einer qualifizierten Servicestelle zu überprüfen:
 - a Netzkabel oder Netzstecker sint beschädigt.
 - b Flüssigkeit ist in das Gerät eingedrungen.
 - c Das Gerät war Feuchtigkeit ausgesetzt.
 - d Wenn das Gerät nicht der Bedienungsanleitung ensprechend funktioniert oder Sie mit Hilfe dieser Anleitung keine Verbesserung erzielen.
 - e Das Gerät ist gefallen und/oder das Gehäuse ist beschädigt.
 - f Wenn das Gerät deutliche Anzeichen eines Defektes aufweist.
- 16. Bei Reparaturen d
 ürfen nur Orginalersatzteile bzw. den Orginalteilen entsprechende Teile verwendet werden. Der Einsatz von ungeeigneten Ersatzteilen kann eine weitere Besch
 ädigung hervorrufen.
- Wenden Sie sich mit allen Fragen die Service und Repartur betreffen an Ihren Servicepartner. Somit stellen Sie die Betriebssicherheit des Gerätes sicher.
- 18. Zum Netzanschluß dieses Gerätes ist eine geprüfte Leitung zu verwenden, Für einen Nennstrom bis 6A und einem Gerätegewicht gr ßer 3kg ist eine Leitung nicht leichter als H05VV-F, 3G, 0.75mm2 einzusetzen.

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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

Warnung!

Dies ist in Produkt der Klasse B. Im Wohnbereich kann dieses Produkt Funkstoerungen verursachen. In diesem Fall kann vom Benutzer verlangt werden, angemessene Massnahmen zu ergreifen.

Advertencia de Marca de la CE

Este es un producto de Clase B. En un entorno doméstico, puede causar interferencias de radio, en cuyo case, puede requerirse al usuario para que adopte las medidas adecuadas.

Attention!

Ceci est un produit de classe B. Dans un environnement domestique, ce produit pourrait causer des interférences radio, auquel cas l'utilisateur devrait prendre les mesures adéquates.

Attenzione!

Il presente prodotto appartiene alla classe B. Se utilizzato in ambiente domestico il prodotto può causare interferenze radio, nel cui caso è possibile che l'utente debba assumere provvedimenti adeguati.

FCC Warning 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 communications. 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 Installation. If this equipment does cause narmful 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.

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