# D-Link®

DCM-100

DOCSIS 1.0

Ethernet Cable Modem

User's Manual

# Table of Contents

# *Introduction*

Thank you for choosing the D-Link DCM-100 digital, two-way DOCSIS 1.0-compliant Ethernet Cable Modem.

The DCM-100 provides customers with high-speed access to the Internet through your cable TV (CATV) network connection. It works on any cable system that complies with MCNS DOCSIS specifications and provides a high-bandwidth connection to the Internet. It downloads Web pages almost instantly, transfers files at exceptionally fast speeds, and delivers real-time video and music with unsurpassed quality.

The DCM-100 digitizes data and sends it over the cable at up to **10.2 Mbps** and can receive transmissions at up to **42.88 Mbps**. To give you an idea of just how fast this is, digitized television quality video and audio are transmitted together at about **3 Mbps**.

The DCM-100 uses a standard RJ-45 port for a 10BASE-T connection to a computer or computer network. When properly configured these connections allow simultaneous data transfers to the Internet via the cable company's network.

## Features

Designed for versatility and performance, the Ethernet Cable Modem provides the following:

**Product Features**

♦ MCNS/DOCSIS 1.0 compliant

♦ DOCSIS 1.1 upgradeable from DOCSIS 1.0 by software

♦ Building MCNS MIB

♦ Frequency Agility

♦ DES Encryption and Decryption

♦ Automatic Signal Power Recognition/Adjustment

♦ Baseline Privacy Interface

♦ QPSK/16 QAM Upstream Modulation

♦ 64/256 QAM Downstream Modulation

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# *Contents and Identification*

## Contents

Open the shipping carton and carefully remove all items. In addition to this User's Manual, ascertain that you have:

♦ DCM-100 Cable Modem

♦ External power adapter

♦ Category 5 Ethernet cable

♦ User's Manual on CD

♦ Quick Install Guide

If any item is found missing or damaged, please contact your local reseller or D-Link directly at one of the offices listed at the rear of the manual for replacement.

## Identifying External Components

This section identifies all the major external components of the device. Both the front and rear panels are shown below followed by a description of each panel feature. The indicator panel is described in detail in the next chapter.
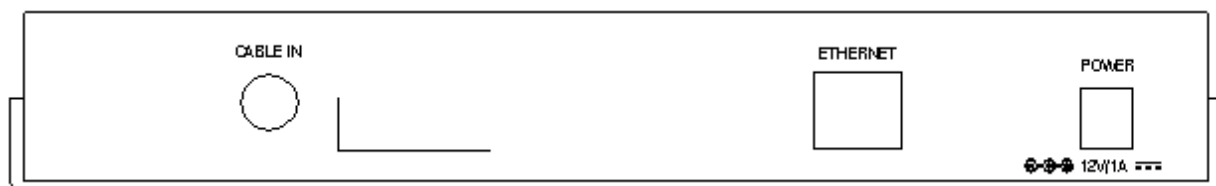
### *Front Panel*

The figure below shows the front panel of the device.
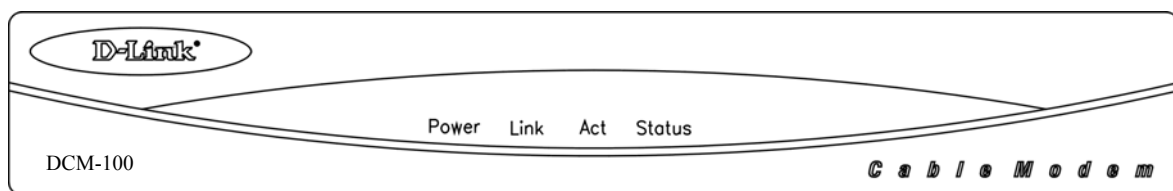


♦ **LED Indicator Panel -** Refer to the next chapter, "*Understanding Indicators,*" for detailed information about each of the DCM-100's LED indicators.

### *Rear Panel*

The figure below shows the rear panel of the device.

- ♦ **AC Power Connector -** For the included power adapter, if you use a power adapter other than the one included with the product, please make sure it has a DC output of 12V/1A.

- ♦ **Ethernet 10BASE-T Port -** The 10BASE-T Ethernet port accepts Category 5 or better UTP cabling with an RJ-45 connector used to connect the DCM-100 to a LAN device (hub, switch, PC, etc.).

- ♦ **Cable In -** This jack is used to connect the DCM-100 to the splitter. This connection uses a standard coax cable which is the same cable used by your cable TV company.

## Connection Architecture

In order for you to enjoy the benefits of your Cable Modem, your PC and TV must be properly connected to the cable TV wire. The following diagram illustrates a typical PC/TV installation.
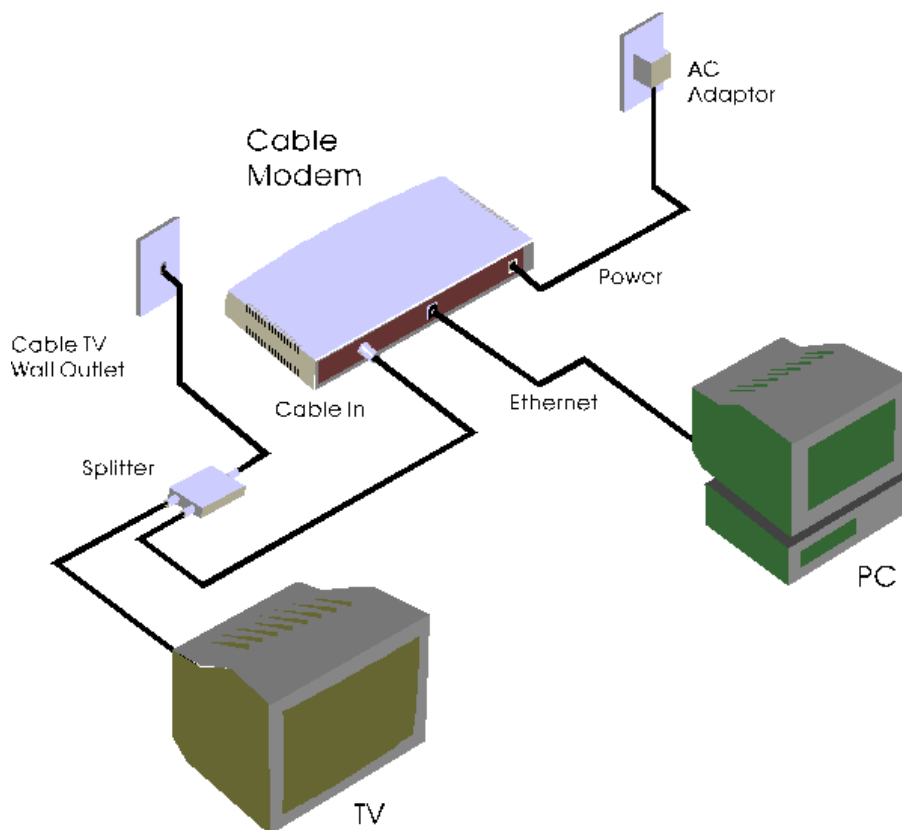


- ♦ **Cable TV Wall Outlet** - This is the normal cable TV wall outlet installed by your cable company. If you plan to connect both your TV and your computer to the cable TV wire, the cable TV wall outlet should be connected to a splitter.
- ♦ **Splitter -** This unit, usually provided by your cable TV company during installation, splits the signal onto a second wire. The two wires coming out of the splitter can be connected to your TV (or set-top box), and the cable modem.

  *NOTE:* **1.** If your cable TV company does not provide a splitter or you chose to buy your own, make sure you get one with sufficient frequency range (the range should be printed on the splitter). A range of 5 to 1000 MHz should be adequate. The splitter should provide EMI isolation.
  **2.** Only one splitter should be placed between the point where the cable TV line enters the house and the Cable Modem/PC (see figure above). If you have multiple TVs, split the line between the first splitter and the TV, not the line between the splitter and the Cable Modem.
  **3. WARNING:** Do not use amplifiers in the line leading to your Cable Modem. Not only do most amplifiers only amplify incoming signals, while your Cable Modem receives and sends signals, but they are also likely to distort cable modem signals.

# 3

# *Understanding Your LED Indicators*

Before setting up your Ethernet Cable Modem for the first time, take a few minutes to look over this section and familiarize yourself with the front panel LED indicators depicted below.
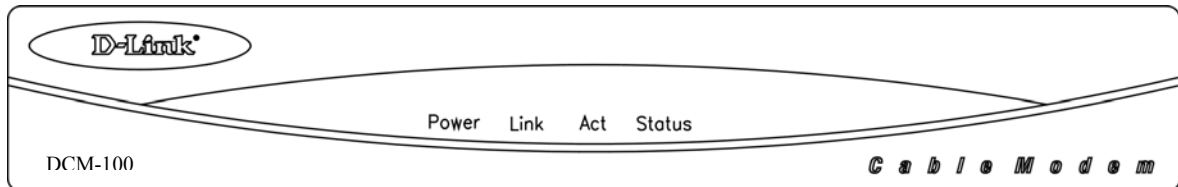


♦   **Power -** This LED is lit red when the device is receiving power; otherwise, it is unlit.

♦   **Link -** This LED is lit green to indicate that a valid connection exists between the Ethernet port on the Cable Modem and your PC. If it is unlit, there is no valid connection.

♦   **Act -** A blinking green LED indicates that traffic activity is passing through your cable modem port.

♦   **Status -** This LED is lit green when the Ethernet cable is properly connected to your PC and a traditional coaxial cable is connected to your Cable Modem tuner. This indicates a successful connection with CMTS. The LED will now start quickly blinking as the DCM-100 attempts to lock a downstream frequency. If this is successful, the LED will begin to blink slowly. This indicates the modem is waiting for authentication. When the blinking stops and the LED remains steady, the Cable Modem is ready to transmit data through the CATV network.

*NOTE:*   If no lights come, check all of your connection to see if they are properly inserted.

## *Powering Up For the First Time*

You must allow at least 1 to 3 minutes to power up the first time because the DCM-100 must find and secure a connection.

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# *Setting Up the Device*

## Before You Start

### *Local Cable Service*

You will need to establish an account with your local cable operator in order to access the Internet with this modem. They will assist you in setting up the modem to operate on their network.

Then for your modem to communicate with the cable service, you will first need to be able to identify the cable modem. The Cable Media Access Control (CMAC) address is a unique number that is used for the purpose of identifying the modem on the network. The CMAC address is found on the rear panel of the modem. You may be required to provide this information to your cable service operator. For convenient reference you can write the CMAC address in the space provided below.

**CMAC address** _____

### *System Requirements*

The capabilities and limitations of your computer equipment and configuration can affect the overall performance of your Internet connection.

The DCM-100 Ethernet Cable Modem is designed to work with the following operating systems:

- ♦ Windows 98/98 SE (Second Edition)

- ♦ Windows NT 4.0

- ♦ Windows 2000

- ♦ Windows ME (Millennium Edition)

- ♦ Active Ethernet Port or Nic Installed

- ♦ TCP/IP installed on all devices

All computers interface that are connected to the modem must have either an active Ethernet interface or network interface card (NIC) installed. You will need to enable TCP/IP protocol on each computer. TCP/IP should already be installed in any computer with an active Ethernet interface. The instructions for installing TCP/IP vary depending on the type of system used. These instructions will be included with the NIC or discussed in the computer's manual if your PC comes equipped with an Ethernet port. Your cable operator may have additional instructions for TCP/IP configuration that must be followed.

# Installation

The installation of the DCM-100 Ethernet Cable Modem can be completed in a matter of minutes. Be careful to insure the cables are properly locked into position. Follow these steps (see the figure of the rear panel in Chapter Two):

1. Connect the coaxial TV cable to the DCM-100 jack labeled "CABLE IN."

2. Connect the external power adapter into the connector labeled "POWER" and the other end to the electrical outlet.

3. Connect one end of the 10BASE-T Ethernet cable (Category 5 or better) to one of your PC's Ethernet ports and the other end into the DCM-200 connector labeled "ETHERNET."

Your setup should look something like this:
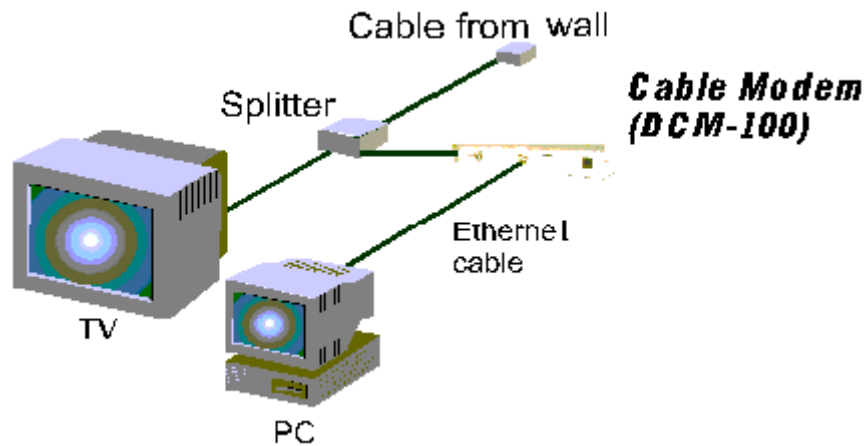


***Important Notice:***

♦ The DCM-100 Ethernet Cable Modem will work with the Ethernet port connected directly to a PC, hub, switch, or a Broadband Router ( i.e. DI-704,DI-713P)

♦ If you shift the Ethernet cable from one PC to another PC, the second PC will not be able to link onto the Internet until you reboot the DCM-100 by unplugging the power cord and then reinserting it into the DCM-100.

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# *Troubleshooting*

If the Ethernet Cable Modem has been properly set up it is unlikely that you should experience any problems with it under normal circumstances. However, we list here some possible solutions to problems that you might experience.

| Problem | Possible Solution |
|---------|-------------------|
| Cannot access the Internet or e-mail service. | Check all connections. <br><br> • Make sure the cable TV line and the Ethernet (RJ-45) cable is securely connected at all points. <br><br> • Make sure the AC power adapter is plugged into the device and the power source. Check the LED indicators to see that the **Power**, **Link** and **Status** indicators are steadily lit for an Ethernet-connected device. <br><br> Contact your cable service operator to verify that your account is up to date and that you have two-way service. <br><br> There may be a problem with your NIC. Refer to the literature for the NIC to find a possible solution. <br><br> The TCP/IP configuration for the computer may be incorrect. Double-check to see that these network settings comply with the instructions given by the cable service operator. Call your cable company to make sure they have given you the proper settings. <br><br> Check your web browser configuration per ISP instruction. |
| Status LED indicator blinks continuously. | Check the cable line connection. If this is secure then there may be a weak signal coming from the central office. Report the problem to your cable operator if the cable connection appears to be OK. |
| LED indicators appear to be normal but Internet access cannot be established | Try to establish a new communication with your cable operator's central office. This can be accomplished by powering off the computer and turning it back on. <br><br> The TCP/IP configuration for the computer may be incorrect. |
| The PC Link light is not green. The light is off. | The modem is not detecting the Network Interface Card. Make sure the cables are firmly attached to the network card in the back of your computer and the modem as well. <br><br> Try replacing the Ethernet cable or the network card with known working components. <br><br> Run diagnostic program that came with your network card. <br><br> If this is a card that we support, troubleshoot the NIC. Otherwise, contact the organization that installed or manufacturers the card. |
| The power light is not on | Check to make sure the power cable is firmly plugged into the cable modem. Also, make sure that the power converter is plugged into a functional socket. <br><br> Change outlets with one you know to have power. <br><br> Replace Cable Modem. |

*Note:* If your TV's picture quality is diminished when the Ethernet Cable Modem is in operation, you may need to contact your Cable TV operator to obtain a High Pass Filter. This should be placed between the splitter and the TV (or if you have a digital set-top box, between the splitter and the set-top box that precedes the TV).

# D-Link Offices

**AUSTRALIA**  **D-Link Australasia**
Unit 16, 390 Eastern Valley Way, Roseville, NSW 2069 Australia
TEL: 61-2-9417-7100  FAX: 61-2-9417-1077  TOLL FREE (Australia): 1800-177100
TOLL FREE (New Zealand): 0800-900900
URL: www.dlink.com.au  E-MAIL: support@dlink.com.au & info@dlink.com.au

**CANADA**  **D-Link Canada**
2180 Winston Park Drive, Oakville, Ontario, L6H 5W1 Canada
TEL: 1-905-829-5033  FAX: 1-905-829-5095  BBS: 1-965-279-8732  TOLL FREE:  1-800-354-6522
URL: www.dlink.ca  FTP: ftp.dlinknet.com  E-MAIL: techsup@dlink.ca

**CHILE**  **D-Link South America**
Isidora Goyeechea 2934 of 702, Las Condes, Santiago, Chile
TEL: 56-2-232-3185  FAX: 56-2-232-0923  URL: www.dlink.cl  E-MAIL: ccasassu@dlink.cl & tsilva@dlink.cl

**CHINA**  **D-Link China**
2F, Sigma Building, 49 Zhichun Road, Haidan District, 100080 Beijing, China
TEL: 86-10-88097777  FAX: 86-10-88096789  URL: www.dlink.com.cn  E-MAIL: liweii@digitalchina.com.cn

**DENMARK**  **D-Link Denmark**
Naverland 2, DK-2600 Glostrup, Copenhagen, Denmark
TEL: 45-43-969040  FAX:45-43-424347  URL: www.dlink.dk  E-MAIL: info@dlink.dk

**EGYPT**  **D-Link Middle East**
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TEL: 202-245-6176  FAX: 202-245-6192  URL: www.dlink-me.com
E-MAIL: support@dlink-me.com & fateen@dlink-me.com

**FINLAND**  **D-Link Finland**
Tulli-ja Pakkahuone, Katajanokanlaituri 5, Fin – 00160 Helsinki
TEL: 358-9-62291660  FAX: 358-9-62291661  URL: www.dlink-fi.com

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Schwalbacher Strasse 74, 65760 Eschborn, Germany
TEL: 49-(0) 6196-7799-0  FAX: 49-(0) 6196-7799-300  URL: www.dlink.de  BBS: 49-(0) 6192-971199 (analog)
BBS: 49-(0) 6192-971198 (ISDN)  INFO: 00800-7250-0000 (toll free)  HELP: 00800-7250-4000 (toll free)
REPAIR: 00800-7250-8000  E-MAIL: info@dlink.de

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TEL: 91-22-652-6696  FAX: 91-22-652-8914  URL: www.dlink-india.com  E-MAIL: service@dlink.india.com

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**JAPAN**  **D-Link Japan**
10F, 8-8-15 Nishi-Gotanda, Shinagawa-ku, Tokyo 141, Japan
TEL: 81-3-5434-9678  FAX: 81-3-5434-9868  URL: www.d-link.co.jp  E-MAIL: kida@d-link.co.jp

**RUSSIA**  **D-Link Russia**
Michurinski Prospekt 49, 117607 Moscow, Russia
TEL: 7-095-737-3389 & 7-095-737-3492  FAX: 7-095-737-3390  URL: www.dlink.ru  E-MAIL: vl@dlink.ru

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1 International Business Park, #03-12 The Synergy, Singapore 609917
TEL: 65-774-6233  FAX: 65-774-6322  E-MAIL: info@dlink.com.sg  URL: www.dlink-intl.com

**S. AFRICA**  **D-Link South Africa**
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TEL: 27 (0) 12-665-2165  FAX: 27 (0) 12-665-2186  URL: www.d-link.co.za  E-MAIL: attie@d-link.co.za

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P. O. Box 15036, S-167 15 Bromma, Sweden
TEL: 46-(0) 8-564-61900  FAX: 46-(0) 8-564-61901  E-MAIL: info@dlink.se URL: www.dlink.se

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2F, No. 119 Pao-Chung Rd, Hsin-Tien, Taipei, Taiwan
TEL: 886-2-2910-2626  FAX: 886-2-2910-1515  URL: www.dlinktw.com.tw  E-MAIL: dssqa@tsc.dlinktw.com.tw

**U.K.**  **D-Link Europe**
4th Floor, Merit House, Edgware Road, Colindale, London NW9 5AB United Kingdom
TEL: 44 (0) 20-8731-5555  FAX: 44 (0) 20-8731-5511  BBS: 44 (0) 181-235-5511  URL: www.dlink.co.uk  E-MAIL: info@dlink.co.uk

**U.S.A.**  **D-Link U.S.A.**
53 Discovery Drive, Irvine, CA 92618, USA
TEL: 1-949-788-0805  FAX: 1-949-753-7033  BBS: 1-949-455-1779 & 1-949-455-9616  INFO: 1-800-326-1688
URL: www.dlink.com  E-MAIL: tech@dlink.com & support@dlink.com

# A

# *Specifications*

## Cable Network Subsystem

### RF MAC Protocol:

MCNS/DOCSIS 1.0 Compliant

### Security

RSA and MCNS 40/56 bit DES data encryption security

### Downstream – Receiver

Demodulation — 64 QAM/256 QAM

Data Speed — 30.342Mbps (64 QAM)/42.88Mbps (256 QAM)

Frequency Range — 91 MHz – 857 MHz

Channel Bandwidth — 6 MHz

Receive Level — -15dBmV to +15dBmV

### Upstream – Transmitter

Modulation — QPSK/16 QAM

Data Speed — 320K, 640K, 1280K, 2560K, 5120Kbps (QPSK)

640K, 1280K, 2560K, 5120K, 10240Kbps (16 QAM)

Frequency Range — 5 MHz to 42 MHz

Channel Bandwidth — 200K, 400K, 800K, 1.6M, 3.2M (Hz)

Transmission Level — +8 to +55dBmV (16 QAM)

+8 to +58dBmV (QPSK)

Error Correction — Reed-Solomon

### Interface

CPE Interface — 10BASE-T Ethernet (RJ45)

RF Interface — F-Type Female 75 ohm connector

### LEDs

Power

Link

Activity

Status

### Power Supply

AC-to-DC power adapter (provided)

DC Input: 12VDC/1A

**Power Consumption**

12W (maximum)

**Operating Temperature**

32°- 104°F (0°- 40°C)

**Operating Humidity**

10% - 90%

**Storage Temperature**

-4°- 140°F (-20°- 60°C)

**Dimensions**

22 (W) x 174 (D) x 35 (H) mm

**Weight**

578 grams (1.271b)

**EMI Certification**

FCC Class B

CE Class B

C-Tick

# Contacting Technical Support

You can find software updates and user documentation on the D-Link website.

D-Link provides free technical support for customers within the United States and within Canada for the duration of the warranty period on this product.

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

**Tech Support for customers within the United States:**

*D-Link Technical Support over the Telephone:*
(877) 453-5465
24 hours/ 7 days a week
*D-Link Technical Support over the Internet:*
http://support.dlink.com
email:support@dlink.com

**Tech Support for customers within Canada:**

*D-Link Technical Support over the Telephone:*
(800) 361-5265
Monday to Friday 7:30am to 12:00am EST
*D-Link Technical Support over the Internet:*
http://support.dlink.ca
email:support@dlink.ca

When contacting technical support, please provide the following information:
· *Serial number of the unit*
· *Model number or product name*
· *Software type and version number*

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 D-Link 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/.

- 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. D-Link 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 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 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.

# Registration



Register your product online at:
http://support.dlink.com/register

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

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