



Model DP-101
Multiprotocol Ethernet
Print Server

Hardware Guide

Rev. 03 (October, 2000)

Limited Warranty

Hardware:

D-Link warrants each of its hardware products to be free from defects in workmanship and materials under normal use and service for a period commencing on the date of purchase from D-Link or its Authorized Reseller and extending for the length of time stipulated by the Authorized Reseller or D-Link Branch Office nearest to the place of purchase.

This Warranty applies on the condition that the product Registration Card is filled out and returned to a D-Link office within ninety (90) days of purchase. A list of D-Link offices is provided at the back of this manual, together with a copy of the Registration Card.

If the product proves defective within the applicable warranty period, D-Link will provide repair or replacement of the product. D-Link shall have the sole discretion whether to repair or replace, and replacement product may be new or reconditioned. Replacement product shall be of equivalent or better specifications, relative to the defective product, but need not be identical. Any product or part repaired by D-Link pursuant to this warranty shall have a warranty period of not less than 90 days, from date of such repair, irrespective of any earlier expiration of original warranty period. When D-Link provides replacement, then the defective product becomes the property of D-Link.

Warranty service may be obtained by contacting a D-Link office within the applicable warranty period, and requesting a Return Material Authorization (RMA) number. If a Registration Card for the product in question has not been returned to D-Link, then a proof of purchase (such as a copy of the dated purchase invoice) must be provided. If Purchaser's circumstances require special handling of warranty correction, then at the time of requesting RMA number, Purchaser may also propose special procedure as may be suitable to the case.

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Warranty service for software products may be obtained by contacting a D-Link office within the applicable warranty period. A list of D-Link offices is provided at the back of this manual, together with a copy of the Registration Card. If a Registration Card for the product in question has not been returned to a D-Link office, then a proof of purchase (such as a copy of the dated purchase invoice) must be provided when requesting warranty service. The term "purchase" in this software warranty refers to the purchase transaction and resulting license to use such software.

D-Link warrants that its software products will perform in substantial conformance with the applicable product documentation provided by D-Link with such software product, for a period of ninety (90) days from the date of purchase from D-Link or its Authorized Reseller. D-Link warrants the magnetic media, on which D-Link provides its software product, against failure during the same warranty period. This warranty applies to purchased software, and to replacement software provided by D-Link pursuant to this warranty, but shall not apply to any update or replacement which may be provided for download via the Internet, or to any update which may otherwise be provided free of charge.

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Wichtige Sicherheitshinweise

1. Bitte lesen Sie sich diese Hinweise sorgfältig durch.
2. Heben Sie diese Anleitung für den spätern Gebrauch auf.
3. Vor jedem Reinigen ist das Gerät vom Stromnetz zu trennen. Verwenden 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.
7. 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.
10. Verlegen Sie die Netzanschlußleitung so, daß niemand darüber fallen kann. Es sollte 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.
13. Durch die Lüftungsöffnungen dürfen niemals Gegenstände oder Flüssigkeiten in das Gerät gelangen. Dies könnte einen Brand bzw. Elektrischen Schlag auslösen.
14. Öffnen Sie niemals das Gerät. Das Gerät darf aus Gründen der elektrischen Sicherheit nur von autorisiertem 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 entsprechend 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 dürfen nur Originalersatzteile bzw. den Originalteilen entsprechende Teile verwendet werden. Der Einsatz von ungeeigneten Ersatzteilen kann eine weitere Beschädigung hervorrufen.
17. 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 großer 3kg ist eine Leitung nicht leichter als H05VV-F, 3G, 0.75mm² einzusetzen.

FCC Warning

This equipment has been tested and found to comply with the limits for a Class A device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. 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. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

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

CE Mark Warning

Warning

This is a Class A 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 ein Produkt der Klasse A. Im Wohnbereich kann dieses Produkt Funkstörungen verursachen. In diesem Fall kann vom Benutzer verlangt werden, angemessene Massnahmen zu ergreifen.

Precaución!

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

Attention!

Ceci est un produit de classe A. 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 A. Se utilizzato in ambiente domestico il prodotto può causare interferenze radio, nel cui caso è possibile che l'utente debba assumere provvedimenti adeguati.

BSMI Warning

警告使用者

這是甲類的資訊產品,在居住的環境中使用時,可能會造成射頻干擾,在這種情況下使用者會被要求採取某些適當的對策。

VCCI A Warning

この装置は、情報処理装置等電波障害自主規制協議会（VCCI）の基準に基づくクラス A 情報技術装置です。この装置を家庭環境で使用すると電波妨害を引き起こすことがあります。この場合には使用者が適切な対策を講ずるよう要求されることがあります。

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ABOUT THIS GUIDE

This manual describes the D-Link DP-101 Multiprotocol Ethernet Print Server, including full descriptions of its features, detailed installation procedures, and troubleshooting information.

Your DP-101 package includes important software components, and additional user manuals. The software components, and procedures for installation and setup of the software, are covered in the *PS Admin User's Guide*.

1

INTRODUCTION

The DP-101 Print Server is a compact pocket-sized print server which connects your Ethernet network directly to your printer, wherever it is. It manages the flow of print files from your workstations or file servers to its connected printers, delivering print jobs to high-performance printers much faster than a file server or a PC acting as a print server can.

Service Features

DP-101 print servers improve network printing services in three ways:

- ◆ The DP-101 picks up the workload of managing print file traffic to its connected printers. This provides workload relief to your file servers, and allows the file servers' full capacity to be used for file access or other direct services to network users. On peer-to-peer networks, workstations can print directly to the DP-101 without increasing the load of another workstation or server.
- ◆ The DP-101's IEEE 1284 compliant high-speed bi-directional parallel printer port can transmit to high-speed laser printers much faster than a PC's parallel printer port. A high-speed laser printer can be driven at its full capacity.
- ◆ Because the DP-101 is very portable (pocket-sized) and inexpensive compared to a PC-based print server, and because the DP-101 connects to your file servers through the network, the printer can be stationed at the location of maximum convenience to users.

The DP-101 offers extraordinary flexibility, operating with all major network operating systems and protocols:

- ◆ **IPX/SPX**
Novell NetWare 3.x, 4.x (Using either bindery emulation or native NDS)
- ◆ **TCP/IP**
UNIX lpr/lpd (HP-UX, SunOS, Solaris, SCO, UnixWare, IBM AIX)
Windows NT
- ◆ **NetBEUI**
Windows NT, Windows 95, Windows for Workgroups, Microsoft LAN Manager, IBM LAN Server
- ◆ **AppleTalk**
MacOS EtherTalk

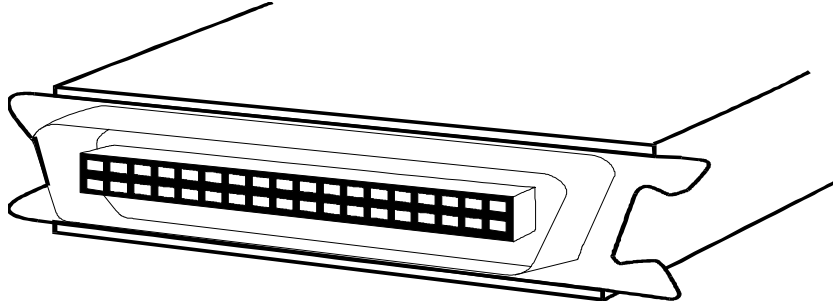
Your D-Link DP-101 package includes *PS Admin*, a Windows-based setup and administration program, which makes configuration and management of your D-Link print servers quick and easy in a Windows environment. The DP-101 also has a Telnet interface for management communications. If Windows is not available on the station you choose for print server administration, then all configuration and management commands may be issued to the DP-101, and all console messages and management report information will be returned, via Telnet.

External Features

This section describes the external features of the DP-101 print server.

Front End

The DP-101 printer port is located at the front.



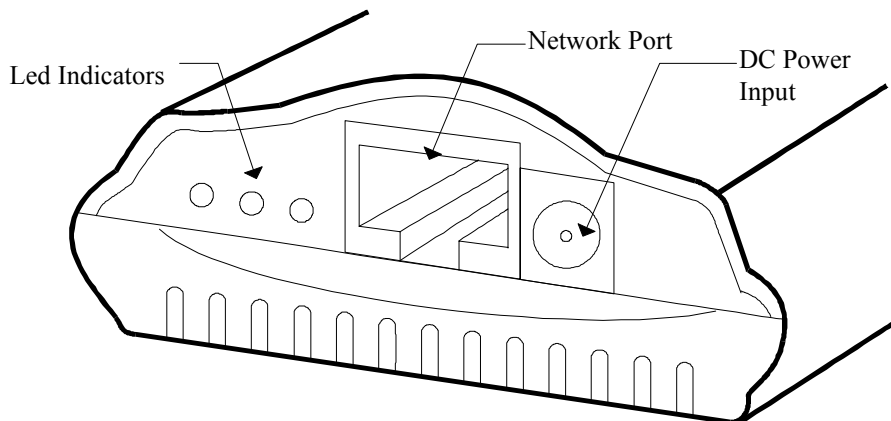
DP-101 Front End

Printer Port

The printer port, is configurable by commands in the *PS Admin* program, or by commands issued to the DP-101 via Telnet. See the *PS Admin User's Guide* for configuration procedures.

Rear End

The network port, power input socket, and LED indicators are all located at the rear .



DP-101 Rear End

Network Port

The network port (RJ-45 receptacle) provides for connection to the network through 10Base-T Ethernet cabling.

DC Power Input

The DC power input socket uses a 7.5V power supply.

The power supply included in your DP-101 package is correct for the DP-101. Substitution of other equipment may void warranty.

LED Indicators

The rear of the DP-101 includes three LED indicators. See "Power-up and Self-Test," Chapter 2, for LED indications upon starting up the DP-101. During operations following a normal startup, the LED indicators provide the following status signals:

- ◆ **Pw/Tx**

Steady or flashing green confirms power on.

This indicator blinks (briefly dark) when the DP-101 is transmitting to the network.

- ◆ **Lk/Rx**

Steady or flashing green confirms that the DP-101 has a good connection to the Ethernet network.

This indicator blinks (briefly dark) when the DP-101 is receiving from the network.

- ◆ **LPT**

This indicator shows steady green while the DP-101 is transferring print data through its printer port.

2

UNPACKING AND INSTALLATION

This chapter explains how to install your DP-101 print server and connect it to the network. It also describes the automatic power-on self test.

Unpacking and Inspecting

Carefully remove all items from the package. Please check to be certain that you have:

- ◆ One print server
- ◆ One AC power adapter suitable for AC power in your area
- ◆ One Installation CD-ROM
- ◆ One Multi-language Installation Guide

If any item is missing, or if you find any damage or mismatch, promptly contact your dealer for assistance.

Installing the DP-101

Follow these steps for a trouble-free start of print-server operations with your DP-101. Please take particular notice of the warning in step 4: *the network connection should be made before supplying power to the DP-101.*

1. Confirm proper operation of the printer to be connected to the DP-101.
2. When you have confirmed proper operation of the printer, switch its power off.
3. Confirm that your network is operating normally.
4. Connect the DP-101 to the network (through the RJ-45 receptacle on the print server's rear end).

WARNING: *Configuration problems may result if the DP-101 is powered up without first establishing its network connection. Follow this procedure to avoid complications at the configuration stage.*

5. While the printer is power off, connect the DP-101 print server directly to the printer parallel port.
6. Switch printer power on.
7. Plug the AC Power adapter's output plug into the DC power input socket on the rear end of the DP-101.
8. Plug the AC Power adapter into an electric service outlet. This will supply power to the DP-101. (The DP-101 has no power switch.) The DP-101's self-test routines will proceed automatically.

Power-up and Self-Test

Whenever the DP-101 is powered up, two kinds of testing procedures follow automatically. The first procedure is just a programmed series of LED flashes, to confirm proper operation of the three LED indicators. The second procedure comprises programmed tests of each of the DP-101's major components. If any fault is found during the component test series, testing is halted and a continuous pattern of LED flashes signals the nature of the fault.

LED Test Series

Immediately upon power-up, all three of the LED indicators will show steady green for several seconds. Then the LPT indicator will flash three times while Pw/Tx and Lk/Rx remain steady. Irregularity of any of the LEDs during this LED test series indicates that there is a problem with the LEDs themselves. Contact your dealer for correction of any LED problems before proceeding.

Component Test Series

The actual component tests immediately follow the LED tests. A normal (no fault) result is signaled by three flashes of the LPT indicator and the start of normal print server operation.

If any error condition is found during the component test series, then the test will halt with the LPT LED continuously signaling the particular error according to the following table.

LPT Flash Pattern	Error Type
steady long flashes	Firmware Reload Required
continuous on	DRAM Error
One long, two short flashes	Timer INT Error
One long, three short flashes	Flash Protected
One long, four short flashes	Flash ID Error
One long, five short flashes	Flash Erase / Program Error
One long, six short flashes	LAN Controller Error
One long, seven short flashes	LAN Memory Error
One long, eight short flashes	Parallel Controller Error
One long, nine short flashes	LPT Error
steady short flashes	EEPROM Error
One long, eleven short flashes	LAN I/O Base error

In the event of a Firmware Reload Required error at startup, proceed according to instructions given in the *PS Admin User's Guide* ("PS Admin Administration" section, under the heading "Upgrading the Print Server's Internal Firmware").

In the event that any of the other listed error conditions is encountered on startup, contact your dealer for correction of the fault.

Operational Test

The *PS Admin* software includes a Print Test function for confirmation of connections and functions. That operational test can be performed after you have completed installation of the *PS Admin* software, and the *PS Admin* procedures for configuring the DP-101. See instructions given in the *PS Admin User's Guide* ("Getting Started Setting up Your Print Server" section, under the heading "Testing your Print Server").



PRODUCT SPECIFICATIONS

Printer Connection

Printer Port: IEEE 1284 standard bidirectional parallel interface with 36-pin connector.

Bidirectional Communication: Hewlett-Packard PJJ (Printer Job Language) standard for bidirectional communication.

Network Connection

Network Standards: IEEE 802.3 10Base-T Ethernet .

Network Data Transfer Rate: 10Mbps (megabits per second) .

Network Connector: RJ-45 connector for 10Base-T twisted pair connection .

Network Protocols

Ethernet Frame Types: 802.2, 802.3, Ethernet II, SNAP (auto-switching)

Transport Protocols: IPX/SPX, TCP/IP NetBEUI, AppleTalk/EtherTalk

TCP/IP Protocols Supported: BOOTP, SNMP, Telnet, TFTP, FTP, lpd, RARP, DHCP

Management and Diagnostics

Standard: SNMP

MIBs: MIB-II (RFC 1213)

Diagnostic LED Indicators: Pw/Tx, Lk/Rx, LPT

Environmental and Physical

Power Supply: External power supply providing 7.5VDC/ 500mA

Dimensions: 92.8mm × 58mm × 25.3mm

Weight: approx. 65g

Operating Temperature: 0 to 50°C

Storage Temperature: -25 to 55°C

Humidity: 5% to 95% non-condensing

Emissions: FCC Class A, CE Class A, BSMI Class A, C-Tick Class A, VCCI Class A

Safety: UL (UL 1950), CSA (CSA950), TUV/GS (EN60950)



PORT PINOUTS

The following table lists the pinouts of the DP-101's 36-pin parallel port connector (identical to the parallel port connector used on most printers.)

Signal names beginning with *n* are active-low signals.

Pin #	Signal	Source
1	nStrobe	H
2	Data 1 *	Bi-Di [▲]
3	Data 2	Bi-Di [▲]
4	Data 3	Bi-Di [▲]
5	Data 4	Bi-Di [▲]
6	Data 5	Bi-Di [▲]
7	Data 6	Bi-Di [▲]
8	Data 7	Bi-Di [▲]
9	Data 8*	Bi-Di [▲]
10	nAck	P
11	Busy	P
12	PErrror	P
13	Select	P
14	nAutoFd	H
15	Not Defined	
16	Logic Gnd	
17	Chassis Gnd	
18	Peripheral Logic High	P
19	Signal Ground (nStrobe)	
20	Signal Ground (Data 1)	
21	Signal Ground (Data 2)	
22	Signal Ground (Data 3)	
23	Signal Ground (Data 4)	
24	Signal Ground (Data 5)	
25	Signal Ground (Data 6)	
26	Signal Ground (Data 7)	
27	Signal Ground (Data 8)	
28	Signal Ground (PErrror, Select, nAck)	
29	Signal Ground (Busy, nFault)	
30	Signal Ground (nAutoFd, nSelectIn, nInit)	
31	nInit	H
32	nFault	P
33	Not Defined	
34	Not Defined	
35	Not Defined	
36	nSelectIn	H

* Least Significant Bit

▲ Data signals will be driven by some , but not all peripheral devices.

◆ Most Significant Bit

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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: 1800-177-100 (Australia), 0800-900900 (New Zealand)
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: 1-905-829-5223 BBS: 1-965-279-8732
FREE CALL: 1-800-354-6522
URL: www.dlink.ca
FTP: [ftp.dlinknet.com](ftp://ftp.dlinknet.com)
E-MAIL: techsup@dlink.ca
- CHILE** **D-LINK SOUTH AMERICA**
Isidora Goyenechea #2934 of.702, Las Condes, Santiago, Chile
TEL: 56-2-232-3185 FAX: 56-2-2320923
URL: www.dlink.cl
E-MAIL: ccasassu@dlink.cl, tsilva@dlink.cl
- 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**
7 Assem Ebn Sabet Street, Heliopolis Cairo, Egypt
TEL: 202-2456176 FAX: 202-2456192
URL: www.dlink-me.com
E-MAIL: support@dlink-me.com, fateen@dlink-me.com
- FRANCE** **D-LINK FRANCE**
Le Florilege #2, Allee de la Fresnerie
78330 Fontenay Le Fleury France
TEL: 33-1-30238688 FAX: 33-1-3023-8689
URL: www.dlink-france.fr
E-MAIL: info@dlink-france.fr
- GERMANY** **D-LINK CENTRAL EUROPE/D-LINK DEUSTSCHLAND GMBH**
Schwalbacher Strasse 74, 65760 Eschborn Germany
TEL: 49-(0) 6196-7799-0 FAX: 49-(0) 6196-7799-300
URL: www.dlink.de
E-MAIL: mbischoff@dlink.de, mboerner@dlink.de
- INDIA** **D-LINK INDIA**
Plot No.5, Kurla-Bandra Complex Road,
Off Cst Road, Santacruz (E), Bombay - 400 098 India
TEL: 91-22-652-6696 FAX: 91-22-652-8914
URL: www.dlink-india.com
E-MAIL:service@dlink.india.com
- ITALY** **D-LINK ITALY**
Via Nino Bonnet No. 6/b, 20154 Milano, Italy
TEL: 39-02-2900-0676
FAX: 39-02-2900-1723
E-MAIL: info@dlink.it
URL: www.dlink.it

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
E-MAIL: vl@dlink.ru

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

S. AFRICA **D-LINK SOUTH AFRICA**
Unit 2, Parkside 86 Oak Avenue
Highveld Technopark Centurion, Gauteng, Republic of South Africa
TEL: 27(0)126652165 FAX: 27(0)126652186
CELL NO: 0826010806 (Bertus Moller)
CELL NO: 0826060013 (Attie Pienaar)
E-MAIL: bertus@d-link.co.za, attie@d-link.co.za

SWEDEN **D-LINK SWEDEN**
P.O. Box 15036, S-167 15 Bromma Sweden
TEL: 46-(0)8564-61900
FAX: 46-(0)8564-61901
E-MAIL: info@dlink.se
URL: www.dlink.se

TAIWAN **D-LINK TAIWAN**
2F, No. 119 Pao-Chung Road, 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**
D-Link (Europe) Ltd. 4th Floor Merit House,
Edgware Road, Colindale, London NW95AB U.K.
TEL: 44-20-8731-5555 FAX: 44-20-8731-5511
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
INFO LINE: 1-800-326-1688
BBS: 1-949-455-1779, 1-949-455-9616
URL: www.dlink.com
E-MAIL: tech@dlink.com, support@dlink.com

Registration Card

Print, type or use block letters.

Your name: Mr./Ms _____
 Organization: _____ Dept. _____
 Your title at organization: _____
 Telephone: _____ Fax: _____
 Organization's full address: _____

 Country: _____
 Date of purchase (Month/Day/Year): _____

Product Model	Product Serial No.	* Product installed in type of computer (e.g., Compaq 486)	* Product installed in computer serial No.

(* Applies to adapters only)

Product was purchased from:

Reseller's name: _____
 Telephone: _____ Fax: _____
 Reseller's full address: _____

Answers to the following questions help us to support your product:

1. Where and how will the product primarily be used?

Home Office Travel Company Business Home Business Personal Use

2. How many employees work at installation site?

1 employee 2-9 10-49 50-99 100-499 500-999 1000 or more

3. What network protocol(s) does your organization use ?

XNS/IPX TCP/IP DECnet Others _____

4. What network operating system(s) does your organization use ?

D-Link LANsmart Novell NetWare NetWare Lite SCO Unix/Xenix PC NFS 3Com 3+Open
Banyan Vines DECnet Pathwork Windows NT Windows NTAS Windows '95
Others _____

5. What network management program does your organization use ?

D-View HP OpenView/Windows HP OpenView/Unix SunNet Manager Novell NMS
NetView 6000 Others _____

6. What network medium/media does your organization use ?

Fiber-optics Thick coax Ethernet Thin coax Ethernet 10BASE-T UTP/STP
100BASE-TX 100BASE-T4 100VGAnyLAN Others _____

7. What applications are used on your network?

Desktop publishing Spreadsheet Word processing CAD/CAM
Database management Accounting Others _____

8. What category best describes your company?

Aerospace Engineering Education Finance Hospital Legal Insurance/Real Estate
Manufacturing
Retail/Chainstore/Wholesale Government Transportation/Utilities/Communication VAR
System house/company Other _____

9. Would you recommend your D-Link product to a friend?

Yes No Don't know yet

10. Your comments on this product? _____

PLEASE
PLACE STAMP
HERE

TO: _____

D-Link®