

# **D-Link<sup>®</sup>**

## Model DP-100 Multiprotocol Ethernet Print Server

### Hardware User's Guide

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6DP100H.001  
Printed In Taiwan



RECYCLABLE



## 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 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.
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.
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Network adapters	Lifetime
Print servers (10Mbps)	Lifetime
Print servers (100Mbps)	Five years
Unmanaged and managed hubs (10Mbps)	Lifetime *
Unmanaged and managed hubs (100Mbps)	One year
Repeaters, MAUs , transceivers, media converters	One year
Concentrators	One year
Internetworking products	One year
* Power supply and fans in these devices	One year
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This equipment has been tested and found to comply with the limits for a Class A digital 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 this user's guide, 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.

## **CE Mark 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.

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# TABLE OF CONTENTS

**ABOUT THIS GUIDE ..... XI**

**INTRODUCTION ..... 1**

*DP-100 Print Server Features ..... 1*

*External Features ..... 3*

    Port Connectors ..... 3

    Network Cable Connectors ..... 4

    DC Power Connector ..... 4

    LED Indicators ..... 4

**UNPACKING AND INSTALLATION ..... 6**

*Unpacking and Inspecting the Print Server ..... 6*

*Installing the DP-100 ..... 7*

*Power On Self-Test ..... 8*

*Testing Your DP-100 ..... 9*

*Wall-Mounting the DP-100 ..... 9*

**PRODUCT SPECIFICATIONS ..... 11**

*Printer Connection ..... 11*

*Network Connection ..... 11*

*Network Protocols ..... 12*

*Management and Diagnostics ..... 12*

*Environmental and Physical* ..... 12

**PORT PINOUTS** ..... **14**

*Parallel Ports* ..... 14

*Serial Port* ..... 15

**INDEX** ..... **15**

---

# ***ABOUT THIS GUIDE***

This manual describes the DP-100 Ethernet Multiprotocol Print Server, including a description of the print server's features, as well as the print server installation procedures and troubleshooting self-test results.

For information about software configuration of the DP-100 to allow it to be used with your network, consult the *Print Server Administration User's Guide* included with your DP-100.



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# INTRODUCTION

The DP-100 Print Server is a compact print server which connects to your Ethernet network anywhere you wish to locate printer services. 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.



Figure 1 -1 DP-100 Print Server

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## DP-100 Print Server Features

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DP-100 print servers improve network printing services in three ways:

- ◆ The DP-100 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-100 without increasing the load of another workstation or server.
- ◆ The DP-100's parallel printer ports are IEEE 1284 compliant high-speed bidirectional ports, which can transmit to high-speed laser printers much faster than a PC's parallel printer port. High-speed laser printers connected to the DP-100's parallel ports can be operated at full their capacity.
- ◆ Because the DP-100 is very portable and inexpensive compared to a PC-based print server, and because the DP-100 connects to your file-servers through the network, printers can be deployed to locations of maximum convenience to users.

The DP-100 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

Windows-based setup and administration software, *PS Admin*, is supplied with the DP-100, making configuration and management quick and easy. The DP-100 also supports configuration and management via the `telnet` protocol for networks without Windows-compatible machines.

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## External Features

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This section describes the externally visible features of the DP-100 print server.

### *Port Connectors*

The DP-100's three printer ports are located on its rear panel. Two identical parallel ports are labeled LPT1 and LPT2; the single serial port is labeled COM. These printer ports are independently configurable using the *PS Admin* program or the print server's `telnet` interface. (See the *Print Server Administration User's Guide* for information about configuring the print server's ports.)

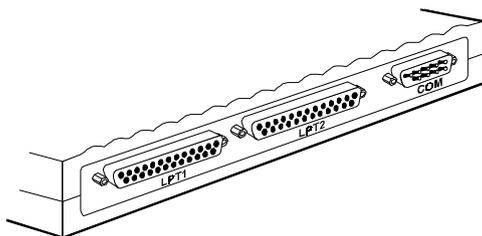


Figure 1 -2 Port Connectors

## Network Cable Connectors

The DP-100 features two alternative network cable connectors for either twisted-pair 10Base-T cabling (using an RJ-45 connector) or thin coaxial 10Base2 cabling (using a BNC connector). Both of these network cable connectors are located on the DP-100's right side panel.

## DC Power Connector

The DC power input connector is located on the DP-100's right side panel and is labeled DC 12V.

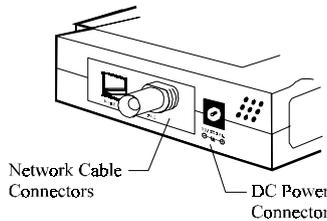


Figure 1 -3 Print Server Right Side Panel

## LED Indicators

The front panel of the DP-100 features five LED indicators:



Figure 1 -4 Front Panel LED Indicators

### ◆ Power/Tx

- ◇ Steady or flashing green confirms that the DP-100 is powered on.

- ◇ The indicator blinks off briefly to indicate that the DP-100 is transmitting to the network.

◆ **Link/Rx**

- ◇ Steady or flashing green confirms that the DP-100 has a good connection to the Ethernet network.
- ◇ The indicator blinks off briefly to indicate that the DP-100 is receiving from the network.

◆ **LPT1, LPT2, COM**

- ◇ These LED indicators light to show that the DP-100 is transferring print data through the appropriate parallel or serial port.

These three indicators are also used by the print server's power-on self test (POST) to indicate any hardware failures.

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# UNPACKING AND INSTALLATION

This chapter explains how to install your DP-100 print server and connect it to the network. It also describes the print server self test indications, and tells how to wall-mount your print server.

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## Unpacking and Inspecting the Print Server

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Carefully remove all items from the package. In addition to this *Hardware User's Guide*, be certain that you have:

- ◆ One DP-100 print server
- ◆ One DC power adapter suitable for your country's electric power
- ◆ Two *PS Admin* software diskettes
- ◆ *One Print Server Administration User's Guide*
- ◆ Fasteners for optional wall-mounting

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

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## Installing the DP-100

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**WARNING:** *Configuration problems may result if the DP-100 is powered up without first establishing its network connection. Follow this procedure to avoid complications at the configuration stage.*

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1. Confirm proper operation of each of the printers to be connected to the DP-100. If you test your printers by printing test files directly from a PC, then make each printer's test connection to the PC through the same port (serial or parallel) as the one you plan to use in connecting to the DP-100.
2. When you have confirmed proper operation of each printer, switch its power off.
3. Confirm that your network is operating normally.
4. Connect the DP-100 to the network cable, using either the RJ-45 (10Base-T) or BNC (10Base2) connector on the print server's side panel.
5. While each printer is powered off, connect its tested and confirmed port with a like printer port of the DP-100. If you are connecting fewer than three printers, then keep in mind that parallel- port connections are preferred for high-performance printers.
6. Switch on each connected printer.
7. Plug the DC power adapter's DC output plug into the DC 12V power socket on the side panel of the DP-100.
8. Plug the power adapter into an electric service outlet. This will supply power to the DP-100, as it has no external power switch. The

Power/Tx LED on the DP-100's front panel should light steady green, and the DP-100's self-test will proceed.

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## Power On Self-Test

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When the DP-100 is powered on, it automatically performs a self-test on each of its major components. The final result of the self-test is signaled by the state of the LPT1, LPT2, and COM LED indicators following the self-test. Preliminary to the actual component tests, the three LED indicators are tested to confirm their steady and flashing operation.

Immediately after power-up, all five of the LED's should show steady green for several seconds. Then the LPT1, LPT2, and COM LEDs should flash on simultaneously three times. Irregularity of any of the three LEDs during these LED tests may mean there is a problem with the LEDs themselves. Contact your dealer for correction of any LED problems before proceeding.

The actual component tests immediately follow the LED tests. A normal (no fault) result is signaled by a series of three cycles of sequential flashing of the three LEDs, followed by a quiescent state with all three LEDs dark.

If the self-test routine traps any component error, then following the LED tests the self-test will halt and the LED's will continuously signal the error according to the following table. In the event of any such error signal, contact your dealer for correction of the faulty unit.

LED Name			Faulty Component
LPT1	LPT2	COM	
off	off	on/steady	COM error
off	off	flashing	Flash ID error
off	on/steady	off	LPT2 error
off	on/steady	on/steady	LAN Controller error
off	on/steady	flashing	LAN Memory error
off	flashing	off	Parallel-2 Controller error

off	flashing	on/steady	EEPROM error
off	flashing	flashing	Flash Protected
on/steady	off	off	LPT1 error
on/steady	off	on/steady	Timer INT error
on/steady	off	flashing	LAN IO Base error
on/steady	on/steady	off	RAM error
flashing	off	off	Parallel-1 Controller error
flashing	flashing	off	Flash erase/program error
flashing	flashing	flashing	Need to reload firmware

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## Testing Your DP-100

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The *PS Admin* software includes a Print Test function for confirmation of printer cable connections and functions. That operational test can be completed after you have installed the *PS Admin* software, and have configured your DP-100 and its ports. See the *Testing Your Print Server* section of the *Print Server Administration User's Guide*.

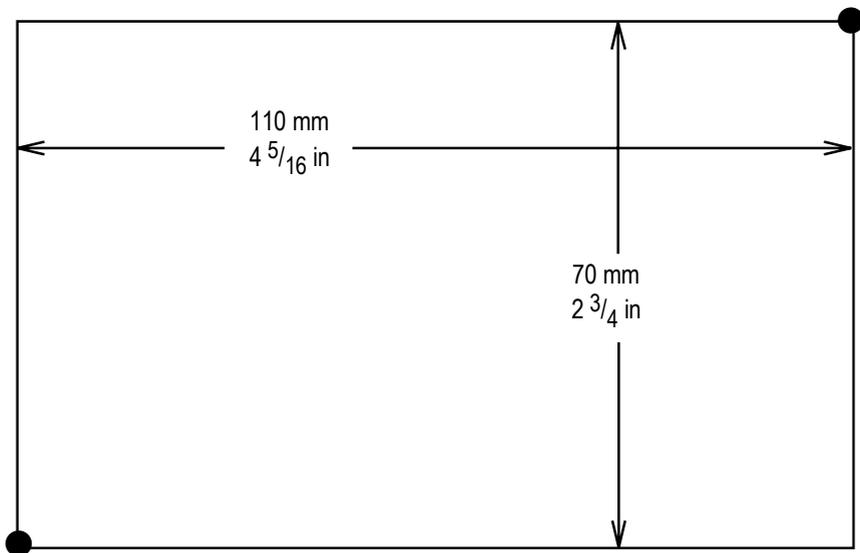
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## Wall-Mounting the DP-100

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The bottom of the DP-100's case has a pair of wall-mount sockets, and screws and nylon anchors are supplied, to facilitate mounting the DP-100 to a wall or partition adjacent to your printers.

To mount the DP-100 with the front panel facing up (and the printer port connectors facing down), set the two mounting screws at the lower-left and upper-right corners of a rectangle as shown below (actual size):



When setting the screws into the wall or partition, leave about 3 mm (1/8 in) between the head of each screw and the wall surface. Then place the DP-100 so that the mounting sockets on the bottom of its case fit over the two screws. Press the case gently toward the wall and slide the case at a 45° angle downward and leftward to engage the screwheads in the slots of the mounting sockets.



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# *PRODUCT SPECIFICATIONS*

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## **Printer Connection**

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**Standards:** IEEE 1284 bi-directional parallel interface, RS-232

**Ports:** Bi-directional 25-pin parallel ports  $\times$  2, 9-pin DTE serial port  $\times$  1

**Parallel Port Bi-directional Communication:** Hewlett-Packard PJJ (Printer Job Language) supported

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## **Network Connection**

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**Network Standards:** IEEE 802.3 10BASE2/10BASE-T Ethernet

**Network Data Transfer Rate:** 10Mbps

**Network Connectors:** BNC connector for 10BASE2 shielded pair connection, RJ-45 connector for 10BASE-T unshielded twisted pair connection (auto-switching)

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## Network Protocols

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**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

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## Management and Diagnostics

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**Standard:** SNMP

**MIBs:** MIB-II (RFC 1213)

**Diagnostic LED Indicators:** Power/Tx, Link/Rx, LPT1, LPT2, COM

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## Environmental and Physical

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**Power Supply:** External power supply providing 12VDC/ 500mA

**Dimensions:** 190mm × 116.8mm × 30.9mm

**Weight:** approx. 360g

**Operating Temperature:** 0 to 55°C

**Storage Temperature:** -20 to 55°C

**Humidity:** 5% to 90% non-condensing

**Emissions:** FCC Class A, CISPR 22 Class A, VCCI Class 1, AS/NZS 3548:1995 Class A

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



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# PORT PINOUTS

This appendix shows the pinouts of the DP-100 parallel and serial printer ports.

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## Parallel Ports

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The following table lists the pinouts of the print server's 25-pin parallel port connector (identical to the connector used on most personal computers), as well as the 36-pin Centronics connector used on most printers.

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

25-pin	Centronics	Signal	Source
1	1	nStrobe	Host
2	2	Data 1	Bi-directional
3	3	Data 2	Bi-directional
4	4	Data 3	Bi-directional
5	5	Data 4	Bi-directional
6	6	Data 5	Bi-directional
7	7	Data 6	Bi-directional
8	8	Data 7	Bi-directional
9	9	Data 8	Bi-directional
10	10	nAck	Printer
11	11	Busy	Printer
12	12	PError	Printer

25-pin	Centronics	Signal	Source
13	13	Select	Printer
14	14	nAutoFd	Host
15	32	nFault	Printer
16	31	nInit	Host
17	36	nSelectIn	Host
18-25	16, 17, 19-30	Ground	

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## Serial Port

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The table below shows the pinout of the print server's 9-pin RS-232 serial port. The print server's serial port is a DTE (Data Terminal Equipment) port, and should be connected to a DCE (Data Communications Equipment) serial port on your printer. Consult your printer's documentation for detailed information on how to connect the print server to your printer.

9-pin	Signal	Function
1	DCD	Data Carrier Detected (DCE→DTE)
2	RXD	Received Data (DCE→DTE)
3	TXD	Transmitted Data (DTE→DCE)
4	DTR	Data Terminal Ready (DTE→DCE)
5	Gnd	Signal Ground
6	DSR	Data Set Ready (DCE→DTE)
7	RTS	Request to Send (DTE→DCE)
8	CTS	Clear to Send (DCE→DTE)
9	RI	Ring Indicator (DCE→DTE)

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# INDEX

10Base2.....	4, 7
10Base-T.....	4, 7
COM.....	3
COM LED.....	5, 9
DC power adapter.....	6, 8
IEEE 1284.....	2
Link/Rx LED.....	5
LPT1.....	3
LPT1 LED.....	5, 9
LPT2.....	3
LPT2 LED.....	5, 9
network connectors .....	4

packing list .....	6
pinout	
parallel port.....	14
serial port .....	15
Power/Tx LED.....	5, 8
Print Test function .....	9
printer port connectors.....	3
<i>PS Admin</i> software.....	3, 6, 9
self-test .....	8
telnet .....	3
wall mounting.....	10
wall-mounting.....	6

# D-Link® Offices

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# 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®**