



Model DP-301P
Multiprotocol Ethernet/Fast Ethernet
Print Server

Hardware Guide

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Printed In Taiwan



RECYCLABLE

Limited Warranty

Hardware:

D-Link warrants its hardware products to be free from defects in workmanship and materials, under normal use and service, for the following periods measured from date of purchase from D-Link or its Authorized Reseller:

| <u>Product Type</u> | <u>Warranty Period</u> |
|----------------------------|------------------------|
| Complete products | One year |
| Spare parts and spare kits | 90 days |

The one-year period of warranty on complete products applies on condition that the product's 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. Failing such timely registration of purchase, the warranty period shall be limited to 90 days.

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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 ist 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 sind 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.
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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.

注意

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ABOUT THIS GUIDE

This guide describes the D-Link DP-301P Multiprotocol Ethernet/Fast Ethernet Print Server. DP-301P features, installation procedures, and troubleshooting methods are explained in detail.

The software and related documentation included with your DP-301P are important parts of the DP-301P package. For information on installing and using the included software, see the *PS Admin User's Guide*.

1

INTRODUCTION

The DP-301P is a pocket-sized device for connecting a printer directly to an Ethernet or Fast Ethernet local-area network (LAN). The DP-301P will manage the flow of data from networked computers to the connected printer, delivering jobs to the printer much faster than a computer acting as a file server or print server can.

Product Capabilities

The DP-301P improves network printing services in three ways:

- ◆ The DP-301P picks up the workload of managing print file traffic to the connected printer. This provides workload relief to your file servers, and allows the file servers' full capacity to be used for file access and other direct services to network users. On peer-to-peer networks, workstations can print directly to the DP-301P without increasing the load of another workstation or server.
- ◆ The DP-301P's IEEE 1284-compliant high-speed bi-directional parallel printer port can transmit data much faster than a computer's parallel printer port can. A high-speed laser printer can be driven at its full capacity.
- ◆ Because the DP-301P is very portable (pocket-sized) and inexpensive compared to a computer-based print server, and

because the DP-301P connects to your file servers through the network, the printer can be stationed at the location of maximum convenience to users.

The DP-301P offers extraordinary flexibility, and works with all major network operating systems and protocols:

◆ **IPX/SPX**

Novell NetWare 3.x and 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

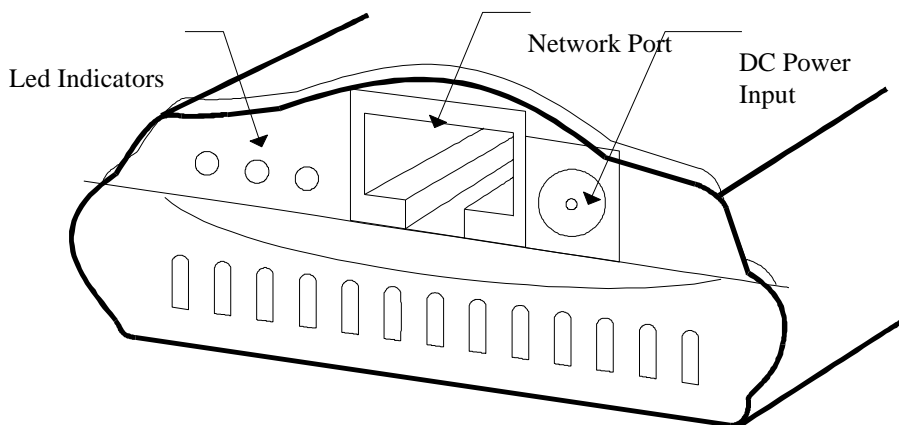
Your DP-301P package includes *PS Admin*, a Windows-based setup and administration program, which makes configuration and management of your D-Link print servers quick and easy. The DP-301P also has a Telnet interface for management communications. If Windows is not available on the station you choose for print server administration, then all configuration and management commands can be issued to the DP-301P, and all console messages and management report information will be returned, via Telnet.

External Features

This section describes the visible parts of the DP-301P print server.

Front

The panel on which the DP-301P's network port, DC power jack, and light-emitting diode (LED) indicators appear is referred to in this guide as the device's "front" section.



DP-301P Front Section

Network Port

The network port, an RJ-45 jack in the middle of the DP-301P's front section, provides for connection to the network through an appropriate twisted-pair cable (Category 3 or higher for 10Base-T Ethernet, Category 5 or higher for 100Base-TX Fast Ethernet).

DC Power Jack

The DC power jack is designed for a 5V/1.5A power supply. The power adapter included in your DP-301P package is correct for the DP-301P. Substitution of other equipment may void warranty.

Indicators

The DP-301P's front panel includes three indicator lights. See "Power-up and Self-Test," Chapter 2, for a description of indicator behavior upon device startup. During operation following a normal startup, the indicators provide the following status signals:

◆ **Pw/Tx**

Steady or flashing green confirms power on.

This indicator blinks (goes off briefly) when the DP-301P is transmitting to the network.

◆ **Lk/Rx**

Steady or flashing green confirms that the DP-301P has a good connection to the network.

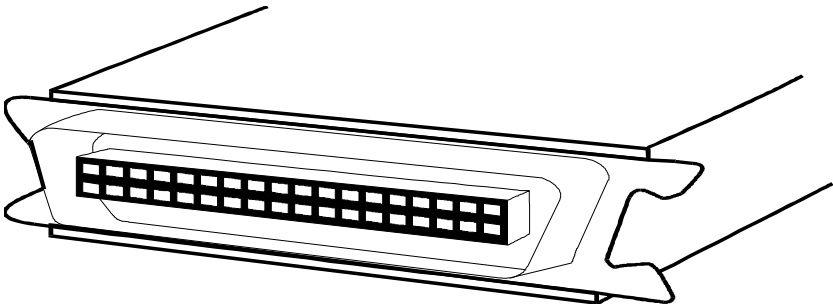
This indicator blinks (goes off briefly) when the DP-301P is receiving from the network.

◆ **LPT**

This indicator shows steady green whenever the DP-301P is transferring print data through its printer port.

Back

The "back" section of the DP-301P consists entirely of the device's printer port.



DP-301P Back End

Printer Port

The printer port can be configured using the *PS Admin* program, or by commands issued to the DP-301P via Telnet. See the *PS Admin User's Guide* for configuration procedures.

UNPACKING AND INSTALLATION

This chapter explains how to install your DP-301P print server and connect it to the network. It also describes the automatic power-on self-test.

Unpacking and Inspection

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

- ◆ One DP-301P print server
- ◆ One AC power adapter suitable for AC power in your area
- ◆ Two *PS Admin for Windows* software diskettes
- ◆ One *PS Admin User's Guide*
- ◆ One lpr software diskette
- ◆ One lpr user's guide

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

Installing the DP-301P

Follow these steps for a trouble-free start of print-server operations with your DP-301P. Please take particular notice of the warning in step 4: *the network connection should be made before supplying power to the DP-301P.*

1. Confirm proper operation of the printer to be connected to the DP-301P.
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-301P to the network through the RJ-45 jack on the print server's front panel.

WARNING: *Configuration problems may result if the DP-301P is powered up without first establishing its network connection. Follow this procedure to avoid complications at the configuration stage.*

5. While the printer is off, connect the DP-301P print server directly to the printer's parallel port.
6. Switch printer power on.
7. Plug the AC power adapter's output plug into the DP-301P's DC power input jack.
8. Plug the AC power adapter into an AC power outlet. This will supply power to the DP-301P. (The DP-301P has no power switch.) The DP-301P's self-test routines will proceed automatically.

Power-up and Self-test

Whenever the DP-301P is powered up, two testing procedures follow automatically. The first procedure is a programmed series of flashes intended to confirm proper operation of the three LED indicators. The second procedure comprises programmed tests of the DP-301P's internal circuitry. If any fault is found during the circuitry tests, testing stops and a continuous pattern of flashes signals the nature of the fault.

Indicator Test

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

Circuit Tests

The circuit tests immediately follow the indicator test. 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 circuit tests, testing will halt with the LPT indicator continuously signaling the particular error according to the following table.

| LPT Indicator Flash Pattern | Error Type |
|--------------------------------|-----------------------------|
| steady long flashes | Firmware Reload Required |
| continuously 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 print server connections and functions. This operational test can be performed after you have installed the *PS Admin* software and completed the *PS Admin* procedures for configuring the DP-301P. See the 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 PJI (Printer Job Language) standard for bidirectional communication.

Network Connection

Network Standards: IEEE 802.3 10Base-T Ethernet and IEEE 802.3u 100Base-TX Fast Ethernet.

Network Data Transfer Rate: 10 or 100 megabits per second (auto-detecting)

Network Connector: RJ-45 connector for 10Base-T or 100Base-TX 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 AC power adapter providing 5V/1.5A DC power

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

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



PORT PINOUTS

The following table lists the pinouts of the DP-301P'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 | PError | P |
| 13 | Select | P |
| 14 | nAutoFd | H |
| 15 | Not Defined | |
| 16 | Logic Gnd | |
| 17 | Chassis Gnd | |

* Least Significant Bit

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

♦ Most Significant Bit

| | | |
|----|---|---|
| 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 |

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Registration Card

Print, type or use block letters.

Your name: Mr./Ms _____
 Organization: _____ Dept. _____
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 Telephone: _____ Fax: _____
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 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. |
|---------------|--------------------|--|--|
| | | | |
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(* 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?**

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