



Model DP-300
Multiprotocol
Ethernet/Fast Ethernet
Print Server

Hardware User's Guide

Rev. 03 (October, 2000)

Limited Warranty

Hardware:

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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 Zubehöerteile 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.
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 Reparatur 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 größer 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 an residential area is likely t cause harmful interference in which case the user will vbe required to correct the interference at his own expense.

1. This device may not cause harmful interference.
2. This device must accept any interfeerence 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 Funkstoerungen 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 case, 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

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ABOUT THIS GUIDE

This manual describes the DP-300 Ethernet/Fast 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-300 to allow it to be used with your network, consult the *Print Server Administration User's Guide* included with your DP-300.

INTRODUCTION

The DP-300 Print Server is a compact print server which connects to your Ethernet or Fast 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-300 Print Server

DP-300 Print Server Features

DP-300 print servers improve network printing services in three ways:

- ◆ The DP-300 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-300 without increasing the load of another workstation or server.
- ◆ The DP-300'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-300's parallel ports can be operated at full their capacity.
- ◆ Because the DP-300 is very portable and inexpensive compared to a PC-based print server, and because the DP-300 connects to your file servers through the network, printers can be deployed to locations of maximum convenience to users.

The DP-300 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-300, making configuration and management quick and easy. The DP-300 also supports configuration and management via the `telnet` protocol for networks without Windows-compatible machines.

External Features

This section describes the externally visible features of the DP-300 print server.

Port Connectors

The DP-300'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.)

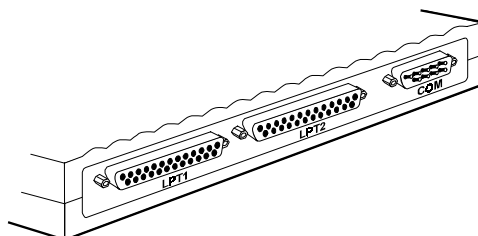


Figure 1 -2 Port Connectors

Network Cable Connector

The DP-300's right side panel features an RJ-45 connector for connection to 10Base-T Ethernet cabling or 100Base-TX Fast Ethernet cabling (which should be Category 5 twisted-pair cable). The port supports the NWay protocol, allowing the print server to automatically detect or negotiate the transmission speed of the network.

DC Power Connector

The DC power input connector is located on the DP-300's right side panel and is labeled DC 12V.

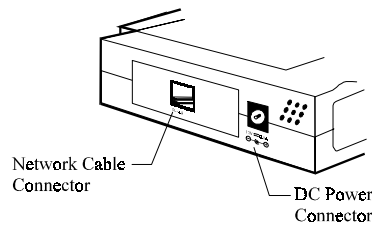


Figure 1 -3 Print Server Right Side Panel

LED Indicators

The front panel of the DP-300 features five LED indicators:

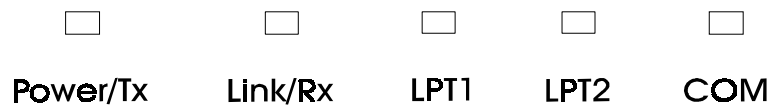


Figure 1 -4 Front Panel LED Indicators

◆ Power/Tx

- ◇ Steady or flashing green confirms that the DP-300 is powered on.
- ◇ The indicator blinks off briefly to indicate that the DP-300 is transmitting to the network.

◆ Link/Rx

- ◇ Steady or flashing green confirms that the DP-300 has a good connection to the Ethernet or Fast Ethernet network.
- ◇ The indicator blinks off briefly to indicate that the DP-300 is receiving from the network.

◆ LPT1, LPT2, COM

- ◇ These LED indicators light to show that the DP-300 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.

UNPACKING AND INSTALLATION

This chapter explains how to install your DP-300 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.

Unpacking and Inspecting the Print Server

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-300

WARNING: *Configuration problems may result if the DP-300 is powered up without first establishing its network connection. Follow this procedure to avoid complications at the configuration stage.*

1. Confirm proper operation of each of the printers to be connected to the DP-300. 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-300.
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-300 to the network, using the RJ-45 (10Base-T/100Base-TX) connector on the print server's side panel.
5. While each printer is powered off, connect its tested and confirmed port to a like printer port of the DP-300. 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-300.
8. Plug the power adapter into an electric service outlet. This will supply power to the DP-300, as it has no external power switch. The Power/Tx LED on the DP-300's front panel should light steady green, and the DP-300's self-test will proceed.

Power On Self-Test

When the DP-300 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 |

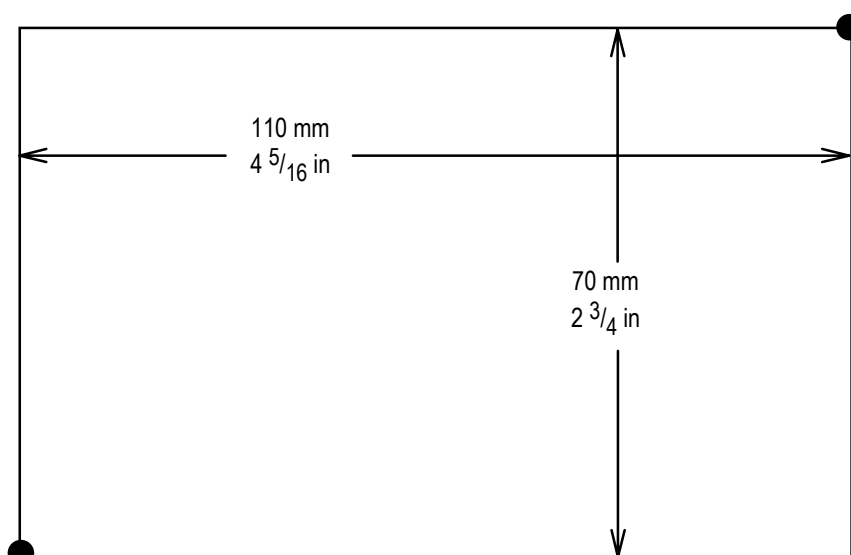
Testing Your DP-300

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-300 and its ports. See the *Testing Your Print Server* section of the *Print Server Administration User's Guide*.

Wall-Mounting the DP-300

The bottom of the DP-300's case has a pair of wall-mount sockets, and screws and nylon anchors are supplied, to facilitate mounting the DP-300 to a wall or partition adjacent to your printers.

To mount the DP-300 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-300 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.



PRODUCT SPECIFICATIONS

Printer Connection

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

Ports: Bi-directional 25-pin parallel ports × 2, 9-pin DTE serial port × 1

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

Network Connection

Network Standards: IEEE 802.3 10Base-T Ethernet, IEEE 802.3u 100BASE-TX Fast Ethernet

Network Data Transfer Rate: 10/100Mbps

Network Connector: RJ-45 connector for 10Base-T or 100BASE-TX unshielded twisted pair connection; NWay automatic speed negotiation supported.

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

Management and Diagnostics

Standard: SNMP

MIBs: MIB-II (RFC 1213)

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

Environmental and Physical

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

Dimensions: 190mm × 116.8mm × 30.9mm

Weight: approx. 360g

Operating Temperature: 0 to 50°C

Storage Temperature: -10 to 50°C

Humidity: 10% to 90% non-condensing

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

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



PORT PINOUTS

This appendix shows the pinouts of the DP-300 parallel and serial printer ports.

Parallel Ports

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 |
| 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 | |

Serial Port

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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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. |
|---------------|--------------------|--|--|
| | | | |
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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? _____



TO:

Three vertical lines for an address.

D-Link®