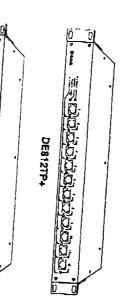
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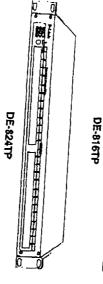
INSTITUTIONS FOR VIOLE PT No'S 1867 (F.P. NO: 129-185)

(F.P. No: 129-197)

About this Guide

This guide provides instructions for instal-ling all of the products described below. These D-Link® Ethernet Hubs are all Plug and Play compliant for easy installation.

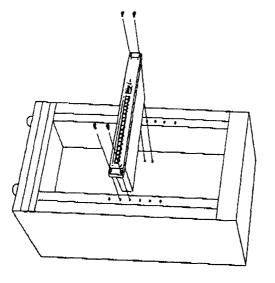




When designing your cable configuration, it is necessary to strictly observe the Ethernet cabling rules. This manual assumes familiarity with the fundamental Ethernet cabling rules and limits; it only describes the details of cable connection.

Rack Mounting

The Ethernet Hub may stand alone, or may be mounted in a standard 19-inch equip-ment rack. Rack mounting produces an orderly installation when you have a number of related network devices. Use the six supplied screws to fasten the supplied mounting brackets to either end of the hub, then fasten the hub into the rack.



Installing Network Cables

Your Ethernet Hub is denominated as an 12-port, or 16-port, or 24-port Ethernet Hub according to the number of its front-panel 10BaseT ports, additionally it has two ports whose connectors are connector), and one 10Base5 port (AUI connector). These two un-numbared rear-panel ports are logically equivalent with the numbered ports on the front panel of the Ethernet Hub.

By using a rear-panel connector of the Ethernet Hub to connect into an existing coaxial network connected through the Ethernet Hub's numbered front-panel ports. Alternatively, you can connect panel port of the Ethernet Hub's numbered into an existing star-topology through a front panel port of the Ethernet Hub, and then add on a to a rear-panel connector of the Ethernet Hub also be supported by the Ethernet Hub's front-panel ports). In either case, the unused rear-panel connector always remains available to coaxial cable).

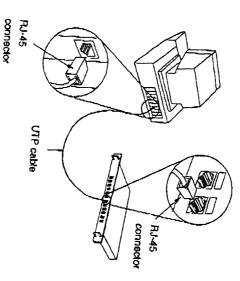
When the Ethernet Hub has no coaxial trunk connection, then both of the rear panel connectors remain available for coaxial station-cable connections. It is useful to keep this in mind when you have some station equipment whose adapters have no 10BaseT port (RJ-45 connector), a coaxial cable.

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Station Connections with Twisted-Pair Cable

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Connect each station to the Bthernet Hub by means of a twisted-pair straight cable (10BaseT cable, Category 3, 4, or 5). Plug one RJ-45 Connector into a front-panel port of the Ethernet Hub, and plug the other RJ-45 connector into the station's Ethernet adapter.



Hub-to-Hub Connections with Twisted-Pair Cable

Hub-to-hub connection between Model DE-812TP+ Ethernet Hubs requires a 10BaseT crossover cable. In making a hub-to-hub

connection involving a Model DE-816TP or Model DE-824 Ethernet Hub, there is the alternative of using a straight cable.

Internal Crossover Features

The Model DE-816TP Ethernet Hub and DE-824TP Ethernet Hub feature internal cross-over alternatives for Port 1:

Model DE-816TP Ethernet Hub

The port numbered as Port 1 is identical with each of the other numbered ports. But Port 1 is specially equipped with an alternative connector, labeled "Uplink." The Uplink the Port 1 connector, but with certain pin over, and thus allow use of a straight cable to make a hub-to-hub connection.

Keep in mind that the Uplink connector is not an independent port. It is only an alternative connector to Port 1, to facilitate hub-to-hub cabling. Port 1 is fully occupied whenever (1) a hub-to-hub connection is made through its connection is made through of lonnection is made directly through the Port 1 connector

Below in this manual, the term "Uplink selected" will mean, as to the Model DE-subject connection is made through the Uplink connector

Model DE-824TP Ethernet Hub

With a switch labeled "Uplink" When the Uplink switch is in the "off" (tail) position, the Port I connector is wired "straight" to the supporting circuitry, and Port I is then identical with each of the twenty-three other numbered ports. When the Uplink switch is change is switched into the wiring for the Port I connector, to provide a cross-over, and hub-to-hub connection.

Below in this manual, the term "Uplink selected" will mean, as to the Model DE-824TP Ethernet Hub in question, that the subject connection is made through Port 1 and the Uplink switch is in its "on" (depressed) position.

Rules for Using the Uplink Feature

Uplink should never be selected for a station cable connection. And Uplink should never be selected for a hub-to-hub connection through a crossover cable (because the crossover in the connector wiring would cancel out the crossover in the cable).

Uplink should be selected only for making a hubto-hub connection with a straight cable. When
Uplink is selected at one end of a straight cable,
Uplink must not be selected at other end of that
cable. (If Uplink were selected at both ends of a
straight cable, then the built-in crossovers of the

Registration Card

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5. What network management program does your organisation use?

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Windows NTAS

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10. Your comments for this product?

hub-to-hub connection would fail.) two connectors would cancel one another, and the

with twisted-pair cable is as follows: Thus the rule for making a hub-to-hub connection

one end of the cable, and Uplink must not straight cable, Uplink must be selected at be selected at the other end of the cable. To make a hub-to-hub connection with

selected at either end of the cable. cross-over cable, Uplink must not be To make a hub-to-hub connection with a

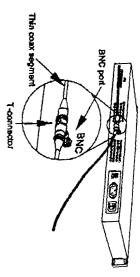
Thin Coaxial Cable Connections

connector onto either leg of the BNC T. onto the rear-panel BNC connector of the standard name, RG58A/U, and a variety of other cable (10Base2 cable, also known by its wire-Ethernet Hub. Then twist the shell of the cable's informal names), first twist a BNC T-connector To connect the Ethernet Hub to a thin coaxial

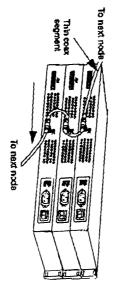
cable onto the remaining leg of the BNC T. It nodes, then twist the shell of the continuation open leg of the BNC T. twist a 50-ohm terminator onto the remaining the end of the coaxial cable), then it is necessary to there is no continuation (the Ethernet Hub is at If the thin coaxial cable continues on to other

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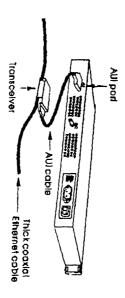


can be handled by a single Ethernet Hub. Then it case of thin coaxial cable connection as treated located to support a larger array of stations than Sometimes several Ethernet Hubs must be co-50-ohm terminator must be substituted for the above, and the terminator rule is the same: If the thin coaxial cable. Such stacking is just a special their BNC connectors with 0.5 meter patches of is useful to stack the Ethernet Hubs by joining continuation cable shown in the stacking diagram stack is at the end of the incoming cable, then a



Thick Coaxial Cable Connections

To connect the Ethernet Hub to a thick coaxial cable (10Base5 cable), it is necessary to have a 10Base5 Ethernet transceiver (tap) on the cable at the Ethernet Hub's position. Then run an AUI cable between the transceiver's AUI connector and the AUI connector on the rear panel of the Ethernet Hub.



Connecting Power

For compatibility with electric service in most areas of the world, the Ethernet Hub's power supply automatically adjusts to line power in the range 100 - 240 VAC and 50 - 60 Hz.

Per ordering option, either a Type 1 (US) or Type 2 (European) power cord is supplied with your Ethernet Hub. See Spefications, below, for power cord details.

Ascertain that the power switch on the rear panel of the Ethernet Hub is in the off position. Plug the female end of the power cord firmly into the

receptacle on the rear panel of the Ethernet Hub. Plug the other end of the power cord into an electric service outlet. Turn on power to the Ethernet Hub by switching its rear-panel power switch to the on position.

LED Indicators

LED indicators are located on the front panel of the Ethernet Hub.

Jabber LED

One Jabber LED for all ports. This LED flashes red when the Ethernet Hub detects a data packet that is defective (exceeds allowable length). This kind of error will ordinarily be managed by the offending Ethernet adapter itself, in which case the Jabber LED will return to its normal off (dark) state.

Collision LED

One Collision LED for all ports. A collision occurs when two stations within a collision domain attempt to transmit at the same time. Intermittent flashing yellow of the Collision LED is normal; the contending adapters resolve each collision by means of a wait-then-retransmit algorithm. Frequency of collisions is an indicator of heavy traffic on the network.

Link/Rx LEDs

One Link/Rx LED for each numbered port. Steady green (Link state) indicates that the port has good linkage to its partner device. Flashing green (Receive state) indicates that the port is receiving data from its partner

If the port is connected but the Link/Rx LED is dark, check whether (1) the Ethernet Hub and the partner device both have power, (2) the port's cable is firmly seated in its connectors in the Ethernet Hub and in the partner device, (3) the connecting cable is good and is of the correct type, and (4) the partner device, including any network adapter, is functioning.

Specifications

Data transfer rate: Protocol: Topologies: EMI Certification:	10 Mbps CSMA/CD Star, Bus FCC Class A, VCCI 1, CE A	11, CE A
	Star, Bus FCC Class A, VCC	11, 02/
AC power:	100 - 240 V , 50 - 60 Hz	2H C
Power consumption: DE-812TP+:	DE-812TP+:	18 W
	DE-816TP:	18 W
	DE-824TP:	20 W

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Dimensions:	W x H x L, mm brackels):	$W \times H \times L$, mm (including mounting brackets):
	DE-812TP+:	4B3 x 44 x 125
	DE-816TP:	483 x 44 x 125
	DE-824TP	4B3 x 44 x 211
Weight:	DE-812TP+:	2.0 kg
	DE-816TP:	2.0 kg
	DE-824TP:	3.03 kg
Operating temperature:	0° - 55° C	
Humidity:	10 - 90 % non-condensing	xndensing
Power cord:	Type 1 (US) or T purchase order	Type 1 (US) or Type 2 (Europe) per purchase order
	Type 1	Туре 2
Plug Rating	125V, 7A	250V, 10A
Cord Rating	125V, 7A	1830mm (6ft)
Length	1830mm (6ft)	VD#
Safety	UL, CSA	
Standard		

Prance

Germany

Sweden

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D-Link Office

YSO

Canada

77 Science Park Drive, #03-03 CINTECH III, World Trade Center, P.O.Box 70396, 107 24 Stockholm, Tel. 1-714-455-1688 Fax.1-714-455-2521
2180 Durwin Driver, Unit#6, Mississauga, Oatario,
L5L 5M8, Canada 5 Musick, Irvine, CA92618, U.S.A. 2F, No.233-2, Pao-Chiao Road, Hsin-Tica, Taipri, OFF CST Rd., Santacruz (E) Bombay-400 098 India Plot No.5, Kurla-Bandra Comples Rd, 15° Floor, Science & Technology Tower Naverland 2 DK-2600 Glostrup Copenhagen, Denmark Unit 16, 390 Eastern Valley Way, Roseville, NSW 2069, Beijing 100081, China No. 11 Baisbiqiao Road, Haidian District, Tel. 81-3-5434-9678 10F, 8-8-15 Nishgotanda, Shinagwa-ku, Tokyo 141, Singapore Science Park, Singapore 118256 Tel. 45-43-96-90-40 Tel. 61-2-9417-7100 Tel. 46-08-7006211 Auf Der Krautweide 32, 65812 Bad Soden, Germany D-Link House, 6 Garland Road, Stanmore, Taiwan, R.O.C. Tel. 91-22-611-2788 Tel. 86-10-68467106 Tel. 65-7746233 Tel. 33-1-30.23.86.88 Fax. 33-1-30-23.86.89 Le Florilege 2, Allee de la Fresnerie, 78330 Tel. 49-6196-643031 Tel. 1-905-828-0260 Far. 1-905-828-5669 fontenty Le Fleury, France Tel. 44-181-235-5555 Fax. 44-181-235-5500 andon HA7 IDP, U.K. Fax 91-22-617-2476 Fax. 86-10-68467110 Fat. 49-6196-28049 Fax. 65-7746322 Pan. 45-43-43-43-47 Pax. 81-3-5434-9868 Fax. 61-2-9417-1077 Pax. 46-08-219640

物の思想を表現を見るという。

WORKGROUP HUB

10BASE-T STANDARD

Australia

imple plug and play instal

detection and correction Easy to use with built-in error REE lifetime customer support

Taiwan

Tel. 886-2-9161600

Fax, 886-2-9146299

India

Chips

Japan

Singapore Denmari

mountable & suitable for desktop Flexible design that's rack-

User's Guide



Ethernet Inmanaged

P.05 TOTAL