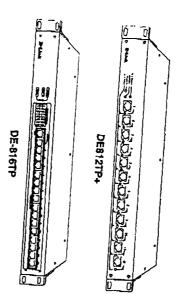
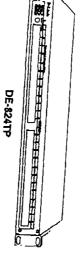
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## About this Guide

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

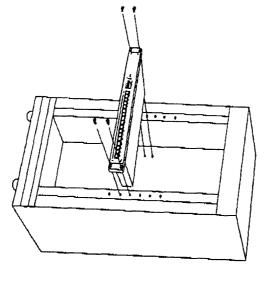




only describes the details of cable connection. necessary to strictly observe the Ethernet cabling fundamental Ethernet cabling rules and limits; it When designing your cable configuration, it is rules. This manual assumes familiarity with the

# Rack Mounting

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



or 16-port, or 24-port Ethernet Hub according to the number of its front-panel 10BaseT ports. Your Ethernet Hub is denominated as an 12-port,

the front panel of the Ethernet Hub. logically equivalent with the numbered ports on These two un-numbered rear-panel ports are connector), and one 10Base5 port (AUI connector). on the rear panel: one 10Base2 port (BNC Additionally it has two ports whose connectors are

a ∞axial cable and thus can only be connected to the hub through adapters have no 10BaseT port (RJ-45 connector), when you have some station equipment whose connections. It is useful to keep this in mind remain available for coaxial station-cable connection, then both of the rear panel connectors When the Ethernet Hub has no coaxial trunk coaxial cable). connect a second coaxial cable (alternative type of panel connector always remains available to panel ports). In either case, the unused rearalso be supported by the Ethernet Hub's frontto a rear-panel connector of the Ethernet Hub ilrrespective of any star-topology subnet that may bus-topology subnet by connecting the subnet bus panel port of the Ethernet Hub, and then add on a into an existing star-topology through a front connected through the Ethernet Hub's numbered cable, you can add on a star-topology subnet, front-panel ports. Alternatively, you can connect Hub to connect into an existing coaxial network By using a rear-panel connector of the Ethernet

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

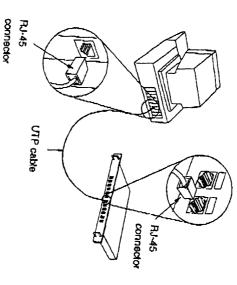
## (F.P. No: 129-197) Installing Network Cables

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### Station Connections with Twisted-Pair Cable

The state of the s

Connect each station to the Ethernet Hub by means of a twisted-pair straight cable (10BaseT cable, Category 3, 4, or 5). Plug one RJ-45 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 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

The connector numbered as Port 1 is equipped with a switch labeled "Uplink" When the Port 1 connector is wired "straight" to the supporting circuitry, and Port 1 is then identical with each of the twenty-three other in the "on" (depressed) position, a pin interport 1 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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Answers to the following quasitions facilities our technical support to your producted Where and how will the product primarily be used? Final methods protocolle) does your organisation west How many employees work at installation sits? [] (angulypee [] 2-9 [] 10-49 [] 30-58 [] 100-489 [] 403-999 [] 1000 preson ☐ Home ☐ Othor ☐ Trans! ☐ Company Business ☐ Home Business ☐ Personal Use 

5. What network management program does your organisation use?

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19 Your comments for this product?

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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

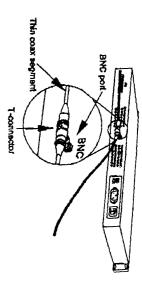
cross-over cable, Uplink must not be selected at either end of the cable. To make a hub-to-hub connection with a

# Thin Coaxial Cable Connections

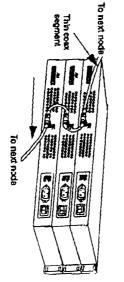
connector onto either leg of the BNC T. onto the rear-panel BNC connector of the standard name, RG58A/U, and a variety of other cable (10Base2 cable, also known by its wireinformal names), first twist a BNC T-connector To connect the Ethernet Hub to a thin coaxial Ethernet Hub. Then twist the shell of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

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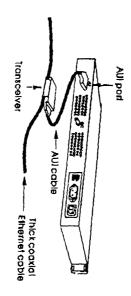
can be handled by a single Ethernet Hub. Then it case of thin coaxial cable connection as treated located to support a larger array of stations than Sometimes several Ethernet Hubs must be co-50-ohm terminator must be substituted for the above, and the terminator rule is the same: thin coaxial cable.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



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# Thick Coaxial Cable Connections

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



# Connecting Power

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

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

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

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

### LED indicators

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

### Jabber LED

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

## Collision LED

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

### Link/Rx LEDs

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

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

## Specifications

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

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W x H x L, mm brackets):	$W \times H \times L$ , 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
DE-812TP+:	2.0 kg
DE-816TP:	2.0 kg
DE-824TP:	3.03 kg
0° - 55° C	
10 - 90 % non-condensing	ndensing
Type 1 (US) or T	Type 1 (US) or Type 2 (Europe) per purchase order
Type 1	Туре 2
125V, 7A	250V, 10A
125V, 7A	1830mm (6ff)
1830mm (6ft)	VDE ,
UL, CSA	
	W x H x L, mm brackels): DE-812TP+: DE-816TP: DE-824TP DE-816TP: DE-824TP: Co - 55° C Type 1 (US) or I purchase order Type 1 125V, 7A 1830mm (6ft) UL, CSA

Prance

Germany

Sweden

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	DE-812TP+:	4B3 x 44 x 125
	DE-816TP:	483 x 44 x 125
	DE-824TP	483 x 44 x 211
ght:	DE-812TP+:	2.0 kg
	DE-816TP:	2.0 kg
	DE-824TP:	3.03 kg
srating perature:	0° - 55° C	
nidity:	10 - 90 % non-condensing	ndensing
ver cond:	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)	VDE ,
Safety	UL, CSA	
Standard		

## 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.1-714-455-2533
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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, 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 fontenty Le Fleury, France Tel. 44-181-235-5555 Fax. 44-181-235-5500 Fel. 1-905-828-0260 Far. 1-905-828-5669 andon HA7 IDP, U.K. Fax 91-32-617-2476 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-(0B-219640

WORKGROUP HUB

10BASE-T STANDARD

Australia

imple blug and play instal

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

Taiwan

Tel. 886-2-9161600 Taiwan, R.O.C.

Fax, 886-2-9146299

India

China

Japan

Singapore Denmari

mountable & sultable for desktop

Flexible design that's rack-

User's Guide



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