
HP EtherTwist Hub/8

Technical Data

Product Number
28691 A

The HP 28691A EtherTwist Hub/8 is a 10Base-T multiport repeater that includes eight twisted-pair ports and one thin coaxial (BNC) port. The Hub/8 repeats and retimes signals, handles collision management, and monitors individual link status. In addition, the hub automatically segments individual ports disturbing the network and reconnects them when the problems are cleared.

The Hub/8 can be used in small networks with just Hub/8s. In addition, it may be cascaded from other hubs such as the HP EtherTwist Hub Plus to add more nodes in an office.

Highlights

Low-Cost LAN

Infrastructure: The HP EtherTwist Hub/8 gives you a low connection cost that used to be possible only with ArcNet and thin coax, while delivering the speed and reliability of 10Base-T (Ethernet on twisted-pair cabling).

Simple Plug-and-Play

Operation: The Hub/8 is designed to simplify the installation and startup of your LAN. Twisted-pair cable plugs directly into the RJ-45 ports, and coaxial backbone cable can be connected to the integrated BNC port. No configuration or special setup is required, which allows you to start up your LAN in minutes.

Topology Flexibility: Hub/8s can stand alone to support up to eight users or be combined to support larger networks in various configurations. Hubs can be connected using the BNC port with thin coaxial backbone cable, or cascaded with twisted-pair cable. Either way gives you growth paths for the future.

Features

- Provides eight twisted-pair ports using 8-pin modular (RJ-45) plugs and one thin coaxial (BNC) port.
- Includes self-test for fault isolation

- Supports up to 100 meters of cable (typically) between hub and twisted-pair transceiver or PC adapter card; greater distances are possible with low-loss cable.
- Includes LEDs for Port Status, Collisions, Activity, Fault, and Power, providing quick hub status checks and troubleshooting.
- Can be wall mounted or stacked on a table top.
- Operates transparently to network operating system software.
- Supports both IEEE 802.3 and Ethernet.
- Provides auto-segmentation of ports for fault isolation and improved network integrity.
- Detects wiring polarity faults on the twisted-pair cable and automatically switches polarity to compensate for the wiring error.
- Supports multi-hub configurations using either a thin coaxial backbone between BNC ports or twisted-pair cascading between twisted-pair ports.

- Supports voice and data signals in the same cable bundle.
- Installs in minutes.

Flexible Topology

The EtherTwist Hub/8s can be connected to one another by cascading with twisted-pair cables (crossover required) or daisy-chained on thin coaxial cable. The Hub/8 can be added easily to an existing ThinLAN network by plugging on to BNC port. This allows you to grow your network with a minimum of effort.

Compatibility to Meet Your Changing Needs

HP's EtherTwist hubs are fully compliant with the 10Base-T standard. Hewlett-Packard has done extensive compatibility testing with other 10Base-T equipment on the market today, giving you the confidence you need to build a multivendor network that best fits your business requirements.

Maximum Reliability Through Fault Isolation

An HP EtherTwist hub automatically identifies any segment disturbing the network and disconnects it from the rest of the network (autosegmentation), ensuring network integrity. Once the problem is corrected, the hub automatically reconnects the segment.

HP WireTest and Cabling

HP EtherTwist LANs use twisted-pair cabling (ordinary telephone wire). Two pairs of 22, 24, or 26 AWG unshielded twisted-pair wire are required for each connection. Shielded twisted-pair wire can also be used.

The HP WireTest Service is available to qualify your existing telephone cabling for use in a Type 10Base-T network. Contact your local HP Sales and Support Office or your HP Authorized LAN Dealer for information and availability of this service. If you have a large network and wish to do your own testing, you can purchase the HP 28687A Wire Test Instrument.

Specifications

Environmental Characteristics

Operating Temperature:
5°C to 40°C (41°F to 104°F)

Relative Humidity:
15% to 95% at 40°C (104°F) noncondensing

Physical and Electrical Characteristics

Dimensions: 21.3 cm by 15.1 cm by 4.6 cm (8.4 in by 5.9 in by 1.8 in)

Weight: 1.0 kg (2.2 lb)

Power Consumption:

AC Voltage: 100-120 V 200-240 V
Current: 0.2 A max 0.1 A max
Frequency: 50/60 Hz 50/60 Hz

The HP EtherTwist Hub/8 automatically adjusts to any voltage between 90 and 240 volts.

Standards

Communications:

IEEE 802.3 Type 10Base-T
IEEE 802.3 Type 10Base2

Safety:

UL 1950
CSA 220
CSA 950
Verified to IEC 950 / EN 60950

Emissions:

FCC Part 15 Class A
CISPR-22 Class A / EN 55022
VCCI Class 1

Immunity:

ESD:
IEC 801-2 Level 3 (10 kV)
EN 55101-2

Radiated Emissions:

IEC 801-3 Level 2 (3 V/m)
EN 55101-3

Warranty

The HP 28691A EtherTwist Hub/8 is warranted for two years against defects.

Ordering Information

HP 28691A EtherTwist Hub/8 includes hub, wall mount kit, "T" connector, and manual.