Easy to install, easy to use, easy to afford

IBM Ethernet Desktop Hub (8242) Models 008 and 016

Highlights

- ***Suitable for home and small office environments***
- ***Flexible enough for use even in large establishments***
- ***Usable with all standard STP, UTP and FTP cables***
- ***Two models support 8 and 16 ports respectively***
- ***Both models can be cascaded to support larger networks via the MDI (uplink) port***
- ***Connects to 10BASE5, 10BASE2 and fiber network segments via an AUI port (Model 016 only)***
- ***Provides port-by-port link/activity and partition LEDs***
- ***Partitions ports automatically when excessive collisions or jabbering are detected***

The IBM Ethernet Desktop Hub (8242) allows you to create an affordable Ethernet LAN wherever you need it. Whether you want to link all of the computers in your home or install your first network in a small business or branch office, the 8242 offers an ideal solution. It has many of the features and problem determination aids and all of the reliability of IBM's large-network hubs, yet retains the simplicity of operation of an entry-level hub. And, as your network grows, the 8242 is flexible enough to meet your needs for years to come.

In addition to meeting all of the requirements of the IEEE 802.3 Ethernet standard and the FCC electronic emissions requirements for office environments, the 8242 also meets the more stringent FCC requirements for home installation. So now you can enjoy all the flexibility of the world's most popular LAN to connect devices in your home together. And the 8242 will give you years of trouble-free operation because the reliability has been designed in from the very beginning.

Big-box features in a small package

In addition to supplying the traditional IBM values of reliability, high function and adherence to industry standards to ensure interoperability, the 8242s bring a host of benefits to their users.

- Small Ethernet LANs can be built in a matter of minutes to serve immediate needs.
- No special environmental considerations apply.
- No special crossover cables or AUI-to-10BASE2 transceivers are required (Model 016 only).
- Auto-ranging power supplies eliminate the need for multiple models for different countries.
- Options such as jabber control, auto-partitioning and auto-reconfiguring, previously available only on higher cost devices, are available on the 8242s at one of the lowest costs per port in the industry.
- A full range of transmission media choices help speed installation and control the costs of moves, adds and changes.



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IBM Ethernet Desktop Hub at a glance

Models	008, 016
Total ports	Model 008 8 10BASE-T, 1 MDI Model 016 16 10BASE-T, 1 MDI
Physical Specifications	• Model 008 Height: 29.0 mm (1.1 in.) Width: 222.2 mm (8.7 in.) Depth: 135.0 mm (5.3 in.) Weight: 0.76 kg (1.7 lb) • Model 016 Height: 49.8 mm (1.96 in.) Width: 219.0 mm (8.62 in.) Depth: 151.0 mm (5.94 in.) Weight: 1.4 kg (3.1 lb)
Power	• Model 008 The external ac/dc power adapter supports standard voltages throughout the world. The nominal input voltage and frequency ranges are 100 - 250 V ac and output of the power adapter is dc 5 V, 1 A. • Model 016 The internal, auto-ranging power supply supports standard voltages throughout world. The nominal input voltage and frequency ranges are 100 - 240 V ac and 50 - 60 Hz, respectively. Power dissipation (maximum) is 17.5 W (59.7 BTU/hour).
Operating environment	Dry-bulb temperature: 10° - 40°C (50° - 104°F) Relative humidity: 8 - 80% Maximum wet-bulb temperature: 27°C (84°F)
Operating clearances	Front: Adequate space for viewing LEDs Sides: 50.8 mm (2.0 in.) Rear: 50.8 mm (2.0 in.)
Standards	Conforms to IEEE 802.3 10BASE-T standards.
Cabling supported	100-ohm unshielded twisted pair, 150-ohm shielded twisted pair, or 100-ohm screened twisted pair (ScTP) or foiled twisted pair (FTP) as specified in TIA/EIA/ANSI 568A or ISO IEC 11801.
Installation	Either tabletop or wall-mounted (bracket supplied for wall mounting)

Features	*Benefits*
Crossover ports	Allows use of straight-through cables for all connections. No special crossover cables are required.
Automatic partitioning	Automatically isolates a port from its segment when 32 consecutive collisions are detected. The port is re-enabled with the reception of a valid data frame.
Excellent EMI/EMC characteristics	Approved for use in both residences and offices - wherever you need a LAN.
AUI port	Allows for connection to 10BASE-2, 10BASE-5 and 10BASE-F Ethernets.
MDI port	Allows cascading of 8242s with straight-through cables.
Front-panel LEDs	Provide box-level and port-level information for operational monitoring and troubleshooting.
Jabber Lockup Protection	Jabbering ports are automatically partitioned to ensure the operation of the rest of the segment. The jabbering port is re-enabled after it receives a valid data frame.
Automatic Polarity-Reversal Correction	Prevents failures brought about by copper cable polarity reversals.

For more information

To find out more about the IBM Ethernet Desktop Hub (8242) and other high-performance IBM communications and networking products, contact your IBM representative or call IBM Direct at 1 800 IBM-CALL (1 800 426-2255). You can also obtain information from the IBM Networking Home Page at http://www.networking.ibm.com.

Copies of this and other related product specification sheets can be obtained from the IBM FAX information service by dialing 1 800 IBM-4FAX (1 800 426-4329) in the U.S. and Canada or by dialing 415 855-4329 outside the U.S. and Canada and requesting document number 9407.



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5-98
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G224-4563-00