The SuperStack® II Dual Speed Hub 500 is an easy-to-use, 10/100 autosensing manageable and stackable hub (repeater). It is ideal for users that want the power of Fast Ethernet and the flexibility to connect 10Mbps devices (workstations and other equipment) in the same hub or stack.

The Dual Speed Hub 500 has 12 or 24 shielded RJ45 10/100 autosensing ports on the front panel which can both be used to connect 10BASE-T (Ethernet) or 100BASE-TX (Fast Ethernet) devices to the hub. There are two segments (10Mbps and 100Mbps) in the hub, which are linked by a switch, so your 10Mbps and 100Mbps workstations and equipment can communicate.

The hub also has two transceiver module slots that can be fitted with a Management Module, or 3Com 10Mbps or 100Mbps modules to provide you with additional types of network connection. For information on what modules can be used, refer to the “Products” section in this guide.

The Dual Speed Hub 500 comes with:
- One power cord for use with the Dual Speed Hub 500
- Four self-adhesive rubber pads
- Mounting kit
- A Warranty Registration card for you to fill out and return

The Dual Speed Hub 500 is suited for office use where it can be free standing, wall-mounted, or rack-mounted (in a wiring closet or equipment room).

The unit can be powered either from the AC mains supply, or through an optional 3Com SuperStack II Advanced Redundant Power System (3C16070). Contact your supplier for details.

To provide maximum flexibility and expandability, the Dual Speed Hub 500 can be used with a range of other equipment:

- Using Cascade Cables, you can connect up to eight Dual Speed Hub 500 units to form a logical repeater (called a stack), providing up to 208 ports per stack. The 10Mbps and 100Mbps segments in each hub are connected by the Cascade Cables. Using additional Hot Swap Cascade Units, you can add resilience to the cascade connections so that you can remove units at any time without it affecting communication across the other units in the stack.
- Using the MDI switch on the front panel, you can connect a 10BASE-T or 100BASE-TX unit or stack to the Dual Speed Hub 500.
- Using a Dual Speed Hub – PS Hub Cascade Converter Kit, you can stack Dual Speed Hub 500 units with existing SuperStack II PS Hubs. The whole stack can be managed as a single entity. The maximum number of units that you can connect this way to form a stack is eight.

Refer to the “Products” section in this guide for information on obtaining these products.
Network Connections
All ports on the Dual Speed Hub 500 are half duplex, autosensing 10Mbps and 100Mbps. The ports sense the speed of the cables and devices that are attached to them and operate at the speed required.

For a stack of Dual Speed Hub 500 units, any path through the stack counts as going through two logical repeaters.

Ethernet Network Configuration Rules
To remain within IEEE 802.3 10Mbps Ethernet rules, the maximum length of cable between the Dual Speed Hub 500 and an attached device must not exceed 100m (328ft). If you are connecting multiple repeaters together in series, ensure that there are no more than 10Mbps repeaters between any two devices on your network (as shown below).

Fast Ethernet Network Configuration Rules
To remain within IEEE 802.3 100Mbps Fast Ethernet rules, the maximum length of cable between the Dual Speed Hub 500 and an attached device must not exceed 100m (328ft). If you are connecting multiple repeaters together in series, ensure that there are no more than two 100Mbps repeaters between any two devices on your network, and that the total cable distance between the two devices does not exceed 205m (672.4ft) (as shown below).

Fast Ethernet Network Configuration Rules
To remain within IEEE 802.3 100Mbps Fast Ethernet rules, the maximum length of cable between the Dual Speed Hub 500 and an attached device must not exceed 100m (328ft). If you are connecting multiple repeaters together in series, ensure that there are no more than two 100Mbps repeaters between any two devices on your network, and that the total cable distance between the two devices does not exceed 205m (672.4ft) (as shown below).

100BASE-TX and 100BASE-FX Distance Extender Modules
These slide-in transceiver modules overcome the usual Fast Ethernet topology limitations by allowing a virtually unlimited number of Dual Speed Hub 500 units or stacks to be linked together across cable distances of up to 100m (328ft) for 100BASE-TX, or 2000m (6600ft) for 100BASE-FX. Information on using the Distance Extender Module is described in the user guide that accompanies the module. Refer to the “Products” section in this guide for information on obtaining the module.

SNMP and RMON Management Module
A user-installable Dual Speed Hub 500 Management Module can be fitted in one of the transceiver module slots, providing management where needed. A single module manages the entire stack and provides full SNMP and RMON support.

Management allows you to configure the way the Dual Speed Hub 500 operates and monitor the way your network works. You can manage the unit or stack locally or remotely using the easy-to-use web interface or Command Line Interface that are supplied. Alternatively, you may want to use an SNMP network management application (for example 3Com’s powerful Transcend® Enterprise Manager for Windows®) or RMON (remote monitoring) application.

The Management Module provides a number of other advanced features including the ability to set Resilient Links and network security. It also provides the ‘Smart Autosensing 10/100’ feature*, an enhancement of the standard autosensing. With Smart Autosensing, each port not only recognises the speed, but also the quality of the cable attached and adjusts its speed for maximum reliable transmission. (*available mid-1998)

Information on using the Management Module to manage the Dual Speed Hub 500 is described in the user guide that accompanies the Management Module. Refer to the “Products” section in this guide for information on obtaining the Management Module.

HOW TO USE THE DUAL SPEED HUB 500

Front Panel
1 12 or 24 RJ45 10/100 Ports
You can use these ports to connect 10BASE-T or 100BASE-TX devices (workstations and other equipment) to the Dual Speed Hub 500. As the ports are autosensing, the speed of the ports is determined automatically when you connect your equipment.

WARNING: RJ45 ports. These are shielded RJ45 data sockets. They cannot be used as telephone sockets. Only connect RJ45 data connectors to these sockets.


Connect one end of the TP (twisted pair) cable to the RJ45 port on the Dual Speed Hub 500 and the other end to the appropriate RJ45 port on the device. Either shielded or unshielded data cables with shielded or unshielded jacks can be connected to these data sockets.

The equipment that is connected to the Dual Speed Hub 500 must not be set up to operate in full duplex. Set it up to operate as auto-negotiate or half duplex.

10BASE-T
To connect 10BASE-T equipment, use 10BASE-T Category 3, 4 or 5 unshielded or shielded (screened) 100 Ohm TP cable.

Category 5 cable should be used with this product in structured wiring environments. This will ensure correct operation of all ports at 10Mbps or 100Mbps.

100BASE-TX
To connect 100BASE-TX equipment, use 100BASE-TX Category 5 unshielded or shielded (screened) 100 Ohm TP cable.
The Status LEDs show the state of a port and whether or not the Link Pulse signal is present on the segment connected to a port:

- **Green**: A 100Mbps Link Pulse signal is being received and the 100BASE-TX segment attached to the port is functional.
- **Yellow**: A 10Mbps Link Pulse signal is being received and the 10BASE-T segment attached to the port is functional.
- **Flashing**: The port has partitioned due to a network loop, or has been disabled by management. To remove the network loop, examine your connections and ensure that each piece of equipment is connected to your network by one connection.
- **Off**: The Link Pulse signal is not being received. Either you have nothing connected to the port, or there is a problem:
  - Check that the attached device is powered on.
  - Check that the attached transceiver is not faulty.
  - Check that the cable is the correct type and is not faulty.

If the LED is off for port 12 or 24, check the setting of the MDI switch, refer to 2.

If you have connected stacks or different units together, check that your configuration conforms to the network configuration rules for 10BASE-T and 100BASE-TX.

If these checks do not identify the cause of a problem, it may be that the unit or the device connected to the port is faulty. Contact your supplier for further advice.

The Segment LEDs indicate 10Mbps and 100Mbps activity:

- **Flashing green**: Packets are being received or transmitted.
- **Flashing yellow**: Collisions are occurring on the segment. A low level of collisions is a part of normal Ethernet and Fast Ethernet operation. Excessive collisions may indicate a network problem.
- **Off**: No packets are being received or transmitted on the segment.

The Power/Self test LED indicates a number of conditions:

- **Green**: The unit is powered on and ready for use.
- **Flashing green**: The unit is performing a management software upgrade (refer to the user guide that accompanies the Management Module), or is performing its self test after being powered on.
- **Yellow**: The unit has failed its self test. Power off the unit, wait five seconds and power on the unit. Contact your supplier if the LED continues to light yellow.
- **Flashing yellow**: There is a fault on the cascade. Check the status of the Segment LEDs; refer to 4.
- **Off**: The unit is powered off or the LED has failed.

The Mgmt/Attn LED indicates a number of conditions:

- **Green**: A Management Module is installed in the unit.
- **Flashing green**: The user’s attention is being drawn to the unit. You can use management to make this LED flash; refer to the user guide that accompanies the Management Module.
- **Off**: A Management Module is not installed in the unit.

### Rear Panel Connections

#### Power Supply

The Dual Speed Hub 500 automatically adjusts to the supply voltage. Only use the power cord that is supplied with the Dual Speed Hub 500, or a power cord of the same type.

#### Type 2 RPS Connector

Only connect a 3Com SuperStack II Advanced Redundant Power System (3C16070) to this socket. An appropriate power module and cable is required. For details, follow the installation instructions in the guide that accompany the Advanced Redundant Power System and the power module.

#### Two Transceiver Module Slots

A variety of 3Com modules and transceiver modules can be installed in the Dual Speed Hub 500, including the Management Module; refer to the “Products” section in this guide.

**WARNING:** Disconnect the unit from both the power supply and the network before installing or removing the module.

**AVERTISSEMENT:** Débranchez le groupe de l'alimentation électrique et du réseau avant d'installer ou de déposer le module.

**WARNING:** Vor dem Installieren bzw. Ausbauen des Moduls muß der Netzstecker des Geräts abgezogen und die Verbindung zum Netzwerk unterbrochen werden.

When using transceiver modules with this unit, they will only conform to EMC Class A requirements.
If your transceiver module is capable of generating SQE test signals, ensure that the SQE test function is disabled.

To install a module or transceiver module, refer to the documentation that accompanies it. If you remove the module or transceiver module in the future, you must replace the blanking plate to aid the circulation of cooling air and prevent the entry of dust and debris.

10 Console Port

Used to connect your management station to the unit for local management; refer to the user guide that accompanies the Management Module.

11 Cascade Ports

Used for connecting the unit to other Dual Speed Hub 500 units or PS Hubs, to form a stack. You can stack up to eight Dual Speed Hub 500 units.

You can have a maximum of 6m (19.6ft) of cascade cabling between the top and bottom units in the stack.

The Cascade Cables and Hot Swap Cascade Units that are used with the Dual Speed Hub 500 are not the same as those used by the PS Hub.

Connecting Dual Speed Hub 500 Units with Cascade Cables (Stacking)

To connect Dual Speed Hub 500 units together, using Cascade cables:

1 Position the units as required; rack mounting or wall mounting them if necessary.

2 Starting with the bottom unit, using a cascade cable:
   ■ Connect the cable to the UP port on the unit.
   ■ Connect the cable to the DOWN port on the unit directly above it.

3 Continue up the stack, repeating step 2 for each unit, as shown below.

Using Hot Swap Cascade Units

To increase the resilience of the stack, you can use Hot Swap Cascade Units with your Cascade Cables (one Hot Swap Cascade Unit for each Dual Speed Hub 500). For information on using Hot Swap Cascade Units, refer to the documentation that accompanies it.

Connecting to a PS Hub

You can connect your Dual Speed Hub 500 stack to the PS Hub using a Dual Speed Hub – PS Hub Cascade Converter Kit. For information on using the Cascade Converter Kit, refer to the documentation that accompanies it.

12 Self-adhesive Pads

The Dual Speed Hub 500 is supplied with four self-adhesive rubber pads.

Do not apply the pads if you intend to rack or wall mount the unit.

If the unit is to be part of a free standing stack, apply the pads to each marked corner area on the underside of the unit. Place the unit on top of the lower unit, ensuring that the pads locate with the recesses of the lower unit.

Positioning the Dual Speed Hub 500

CAUTION: When installing the Dual Speed Hub 500 in a stack of different size units, the Dual Speed Hub 500 must be installed above the larger units. Do not have a free standing stack of more than six units.

When deciding where to position the Dual Speed Hub 500 ensure:

■ It is accessible and cables can be connected easily.

■ Cabling is away from:
  ■ sources of electrical noise such as radios, transmitters and broadband amplifiers.
  ■ power lines and fluorescent lighting fixtures.

■ Water or moisture cannot enter the case of the unit.

■ Air flow around the unit and through the vents in the side of the case is not restricted (3Com recommend that you provide a minimum of 25mm (1in.) clearance).

To prolong the operational life of your units:

■ Never stack units more than six high if free standing, and ensure that cables are supported so that they do not cause the stack to fall over.

■ Do not place objects on top of any unit or stack.

■ Do not obstruct any vents at the sides of the case.

Rack or Wall Mounting

The Dual Speed Hub 500 can be mounted in a 19in. equipment rack, or wall-mounted using the Mounting Kit. Refer to the "Mounting Kit Instructions" section in this guide.

Power Up

Use the following sequence to power up the Dual Speed Hub 500:

■ Check the network connections and cables.

■ Connect the power supply cable to the appropriate power socket on the rear panel of the unit, refer to 7 or 8.

■ Connect the plug to the power supply outlet socket and switch on.

When the Dual Speed Hub 500 is powered on, the Power LED should be lit. If it is not, refer to “Power/Self test LED”, 6.

Spot Checks

At frequent intervals you should visually check the Dual Speed Hub 500. Regular checks can give you an early warning of a possible failure; any problems can then be attended to when there will be least effect on users. Check the following:

Cabling Check that all external cabling connections are secure and that no cables are pulled taut.

Cooling fans Check that the cooling fan is operating by listening to the unit. The fan is fitted near to the front right hand side of the unit (when viewed from the front).

What To Do Next?

If the Dual Speed Hub 500 fails to operate successfully, contact your supplier with the following information before returning the unit:

■ product number and serial number (printed on a label on the bottom of the unit)

■ a brief description of the fault

When returning any equipment to your supplier ensure that the equipment is packed suitably for transit.
Please read the following safety information carefully before installing the Dual Speed Hub 500.

**WARNING:** Installation and removal of the unit must be carried out by qualified personnel only.

- If installing the unit in a stack with SuperStack II units, it must be installed above the larger units.
- Connect the unit to an earthed power supply to ensure compliance with safety standards.
- It is essential that the socket outlet is near to the unit and is accessible. You can only disconnect the unit by removing the appliance coupler from the unit.
- This unit operates under SELV conditions (Safety Extra Low Voltage) according to IEC 950, the conditions of which are maintained only if the equipment to which it is connected is also operational under SELV.
- The appliance coupler, that is, the connector to the device itself and not the wall plug, must have a configuration for mating with an EN60320/IEC320 appliance inlet.
- Under no circumstances should the unit be connected to an A.C. outlet (power supply) without an earth (Ground) connection.
- Only connect an Advanced Redundant Power System (3C16070) to the Redundant Power System socket.
- UK only: The Dual Speed Hub 500 is covered by Oftel General Approval, NS/G/12345/J/100003, for indirect connection to a public telecommunications system. This can only be achieved using the console port on the unit and an approved modem.

**France and Peru only**
This unit cannot be powered from IT supplies. If your supplies are of IT type, this unit should be powered by 230V (2P+T) via an isolation transformer ratio 1:1, with the secondary connection point labelled Neutral, connected directly to Earth (Ground).

**Impédance à la terre**

**Power Cord Set**
This must be approved for the country where it will be used.

USA and Canada:
- The cord set must be UL-approved and CSA certified.
- The minimum specifications for the flexible cord are:
  - No. 18 AWG Type SV or SJ 3-conductor
  - The cord set must have a rated current capacity of at least 10A.
  - The attachment plug must be an earth-grounding type with a NEMA 5-15P (15A, 125V) or NEMA 6-15P (15A, 250V) configuration.
- Denmark:
  - The supply plug must comply with Section 107-2-D1, Standard DK2-1a or DK2-5a.
- Switzerland:
  - The supply plug must comply with SEV/ASE 1011.

---

**Wichtige Sicherheitsinformationen**
Bitte unbedingt vor dem Einbauen des Dual Speed Hub 500 Einheit die folgenden Sicherheitssanweisungen durchlesen.

**Ein- und Ausbau des Gerätes ist nur von Fachpersonal vorzunehmen.**

- Wenn die Dual Speed Hub 500 Einheit in einer Stapel mit anderen SuperStack II Einheiten eingebaut werden soll, muß die Dual Speed Hub 500 Einheit unter die schmaleren Dual Speed Hub 500 Einheiten eingebaut werden.
- Das Gerät an geerdete Stromversorgung anschließen, um eine Übereinstimmung mit den Sicherheitsbestimmungen zu gewährleisten.
- Es ist wichtig, daß der Netzstecker sich in unmittelbarer Nähe zum Gerät befindet und leicht erreichbar ist. Das Gerät kann nur durch Herausziehen des Verbindungsteckers aus der Steckdose vom Stromnetz getrennt werden.
- Das Gerät wird mit Sicherheits-Kleinspannung nach IEC 950 (SELV = Safety Extra Low Voltage) betrieben. Angeschlossen werden können nur Geräte, die ebenfalls nach SELV betrieben werden.
- Das Gerät ist unter keinen Umständen an einen Wechselstrom (A.C.) Netzstecker anzuschließen ohne Erdungsleitung.
- Die Anordnung der Gerätesteckvorrichtung, d.h. die Steckverbin dung am Gerät selbst im Gegensatz zum Wandstecker, muß in den EN60320/IEC320 Zuführungstecker am Gerät passen.
- Der Anschlußkabelsatz muß mit den Bestimmungen des Landes übereinstimmen, in dem er verwendet werden soll.
Introduction
The Dual Speed Hub 500 is supplied with two mounting brackets and four screws. These are used for rack mounting and wall mounting the unit. When mounting the unit, you should take note of the guidelines given in “Positioning the Dual Speed Hub 500” overleaf.

Wall Mounting the Units

**CAUTION:** Disconnect all cables from the unit(s) before continuing. Remove the self-adhesive pads from the underside of the unit(s), if already fitted.

The maximum number of units that you can wall mount together is two units.

Fitting the brackets to wall mount one unit:
1. Place the unit the right way up on a hard, flat surface with the front facing towards you.
2. Locate a mounting bracket over the mounting holes on one side of the unit, as shown in Figure 1 below.
3. Insert the two screws and fully tighten with a screwdriver.

Repeat the last two steps for the other side of the unit.

Fitting the brackets to wall mount two units:
1. Stack the units the right way up on a hard, flat surface with the front facing towards you.
2. Locate two mounting brackets over the mounting holes on one side of the units, as shown in Figure 2 below.
3. Insert the three screws and fully tighten with a screwdriver.

Repeat the last two steps for the other side of the units.

To wall mount the unit(s):
Ensure that the wall you are going to use is smooth, flat, dry and sturdy. Attach a piece of plywood, about 30cm x 50cm x 1.5cm (12in. x 20in. x 0.5in.) in size, securely to the wall if necessary, and mount the unit(s) as follows:

1. Position the unit(s) against the wall (or plywood) ensuring that the ventilation holes face sideways. Mark on the wall the position of the screws holes for both wall brackets. Drill the four holes.
2. Using suitable fixings and screws (not provided), attach the unit(s) securely to the wall (or plywood).

Reconnect all cables.

Rack Mounting the Units
The Dual Speed Hub 500 is 1U high and will fit a standard 19in. rack.

**CAUTION:** Disconnect all cables from the unit before continuing. Remove the self-adhesive pads from the underside of the unit, if already fitted.

1. Place the unit the right way up on a hard, flat surface with the front facing towards you.
2. Locate a mounting bracket over the mounting holes on one side of the unit, as shown in Figure 3 below.
3. Insert the two screws and fully tighten with a suitable screwdriver.
4. Repeat the two previous steps for the other side of the unit.
5. Insert the unit into the 19in. rack and secure with suitable screws (not provided).

Reconnect all cables.

---

Related Standards
The SuperStack® II Dual Speed Hub 500 has been designed and certified to the following standards:

**Functional**
ISO/IEC 8802-3, IEEE 802.3, IEEE 802.3u, IEEE 802.1D

**Safety**
UL 1950, EN 60950, CSA 22.2 #950, IEC 950

**EMC**
EN 55022 Class A*, EN 50082-1, FCC Part 15 Subpart B Class A, ICES-003 Class A, VCCI Class A*, AS/NZS 3548 Class A*

*The use of unscreened cables (Category 3 or 5 for 10BASE-T ports or Category 5 for 100BASE-TX ports) complies with the Class A requirements.

**Environmental**
EN 60068 (IEC 68)

---

**Physical**
Width 440mm (17.3in.)
Depth 230mm (9in.)
Height 44mm (1.7in.) or 1U
Weight 3C16610: 2.55kg (5.6lb) / 3C16611: 2.66kg (5.8lb)
Mounting free standing, or 19in. rack or wall mounted using the mounting kit supplied

**Electrical**

**Power Inlet**
IEC 320

**AC Line Frequency**
50/60 Hz

**Power Consumption**
3C16610: 36 VA / 3C16611: 40 VA

**Power Dissipation**
3C16610: 123 BTU/hr
3C16611: 137 BTU/hr

**Input Voltage**
100–240 VAC

**Current Rating**
1.0 Amps (maximum)
VCCI Statement


If a product does not operate as warranted above during the applicable warranty period, 3Com shall, at its option and expense, either repair the defective product or part, deliver to Customer an equivalent product or part to replace the defective item, or refund to Customer the purchase price paid for the defective product. All products that are replaced will become the property of 3Com. Replacement products may be new or reconditioned. Any replaced or repaired product or part has a ninety (90) day warranty or the remainder of the initial warranty period, whichever is longer.

LIMITATION OF LIABILITY TO THE FULL EXTENT ALLOWED BY LAW, 3COM ALSO EXCLUDES FOR ITSELF AND ITS SUPPLIERS ANY LIABILITY, WHETHER BASED IN CONTRACT OR TORT (INCLUDING NEGLIGENCE), FOR INCIDENTAL, CONSEQUENTIAL, INDIRECT, SPECIAL, OR PUNITIVE DAMAGES OF ANY KIND, OR FOR LOSS OF REVENUE OR PROFITS, LOSS OF BUSINESS, LOSS OF INFORMATION OR DATA, OR OTHER FINANCIAL LOSS CAUSED BY CUSTOMER’S OR ANY THIRD PERSON’S MISUSE, NEGLECT, IMPROPER INSTALLATION OR TESTING, UNAUTHORIZED ATTEMPTS TO REPAIR OR MODIFY, OR ANY OTHER CAUSE BEYOND THE RANGE OF THE INTENDED USE, OR BY ACCIDENT, FIRE, LIGHTNING, OR OTHER HAZARD.

GOVERNING LAW: This Limited Warranty shall be governed by the laws of the state of California.

3Com Corporation, 5400 Bayfront Plaza, Santa Clara, CA 95052-8145 U.S.A. Tel: 1 (408) 764-5000

Information To The User

If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

— Reorient the receiving antenna.
— Relocate the equipment with respect to the receiver.
— Move the equipment away from the receiver.
— Plug the equipment into a different outlet so that equipment and receiver are on different branch circuits.

If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions. The user may find the following booklet prepared by the Federal Communications Commission helpful:

How to Identify and Resolve Radio-TV Interference Problems

This booklet is available from the U.S. Government Printing Office, Washington, DC 20402, Stock No. 004-000-00345-4.

In order to meet FCC emissions limits, this equipment must be used only with cables which comply with IEEE 802.3.
The SuperStack II Dual Speed Hub 500 is part of the large SuperStack II range of 3Com products. Some of the products that you can use with the Dual Speed Hub 500 are listed here. Contact your supplier for the latest product information and to order these products.

**Dual Speed Hub 500 Units**
- 3C16610 — 12-Port TP Dual Speed Hub 500
- 3C16611 — 24-Port TP Dual Speed Hub 500

**Management**
- 3C16685 — Dual Speed Hub 500 Management Module

**Cables and Equipment for Connecting Units**
- 3C16690 — Dual Speed Hub Hot Swap Cascade Unit
- 3C16692 — Dual Speed Hub – PS Hub Cascade Converter Kit
- 3C16695 — 30cm (1ft.) Dual Speed Hub Cascade Cable

---

**Products**

**Transceiver Modules and Distance Extender Modules**

These 10Mbps modules can be used with the Dual Speed Hub 500:

- 3C12061 — Fiber-Optic (SMA) Transceiver Module
- 3C12063 — TP Transceiver Module
- 3C12064 — Fan-Out Transceiver Module
- 3C12065 — Fiber-Optic (ST) Transceiver Module
- 3C12066 — Coaxial Transceiver Module
- 3C12067 — 10BASE-FB Transceiver Module

These 100Mbps modules can be used with the Dual Speed Hub 500:

- 3C16683 — 100BASE-TX Distance Extender Module
- 3C16684 — 100BASE-FX Distance Extender Module

**Redundant Power System**

- 3C16070 — SuperStack II Advanced Redundant Power System

---

**Technical Support**

**World Wide Wide Site**

Access the latest networking information on 3Com Corporation’s World Wide Web site by entering our URL into your Internet browser:

http://www.3Com.com/

This service features news and information about 3Com products, customer service and support, 3Com Corporation’s latest news releases, NetAge® Magazine, technical documentation and more.

**3Com Bulletin Board Service**

3ComBBS contains patches, software, and drivers for all 3Com products, as well as technical articles. This service is available via modem or ISDN 24 hours a day, 7 days a week.

**Access by Digital Modem**

ISDN users can dial into 3ComBBS using a digital modem for fast access up to 56Kbps. To access 3ComBBS using ISDN, use the following number:

(1) 408 654 2703

**Access by Analog Modem**

To reach the service by analog modem, set your modem to 8 data bits, no parity, and 1 stop bit. Call the telephone number nearest you:

<table>
<thead>
<tr>
<th>Country</th>
<th>Phone Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Australia</td>
<td>61 2 9955 2073</td>
</tr>
<tr>
<td>Brazil</td>
<td>55 11 5181 9666</td>
</tr>
<tr>
<td>France</td>
<td>33 1 6986 6954</td>
</tr>
<tr>
<td>Germany</td>
<td>4989 62732 188</td>
</tr>
<tr>
<td>Hong Kong</td>
<td>852 2537 5601</td>
</tr>
<tr>
<td>Italy</td>
<td>39 2 27300680 (fee required)</td>
</tr>
<tr>
<td>Japan</td>
<td>81 3 3345 7266</td>
</tr>
<tr>
<td>Mexico</td>
<td>52 5 520 7835</td>
</tr>
<tr>
<td>P. R. of China</td>
<td>86 10 684 92351</td>
</tr>
<tr>
<td>Taiwan, R.O.C.</td>
<td>886 2 377 5840</td>
</tr>
<tr>
<td>U.K.</td>
<td>44 1442 438278</td>
</tr>
<tr>
<td>U.S.A.</td>
<td>1 408 980 8204</td>
</tr>
</tbody>
</table>

**3Com Corporation**

P.O. Box 58145
5400 Bayfront Plaza
Santa Clara
CA 95052-8145
U.S.A.

**3Com Centre**

Boundary Way
Hemel Hempstead
Herts HP2 7YU
U.K.

---

**Legal Notices**

© 3Com Technologies, 1998. All rights reserved. No part of this documentation may be reproduced in any form or by any means or used to make any derivative work (such as translation, transformation, or adaptation) without permission from 3Com Technologies.

3Com Technologies reserves the right to revise this documentation and to make changes in content from time to time without obligation on the part of 3Com Technologies to provide notification of such revision or change.

3Com Technologies provides this documentation without warranty of any kind, either implied or expressed, including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose. 3Com may make improvements or changes in the product(s) and/or the program(s) described in this documentation at any time.

**United States Government Legends:**

If you are a United States government agency, then this documentation and the software described herein are provided to you subject to the following restricted rights:

For units of the Department of Defense:

Restricted Rights Legend: Use, reproduction or disclosure is subject to restrictions set forth in subparagraph (c) (1) (ii) of the Commercial Computer Software - Restricted Rights Clause at 48 C.F.R. 52.227-19 and the limitations set forth in 3Com Corporation's standard commercial agreement for the software. Unpublished rights reserved under the copyright laws of the United States.

For civilian agencies:

Restricted Rights Legend: Use, reproduction or disclosure is subject to restrictions set forth in subparagraph (a) through (d) of the Commercial Computer Software - Restricted Rights Clause at 48 C.F.R. 52.227-19 and the limitations set forth in 3Com Corporation’s unpublished rights reserved under the copyright laws of the United States.

If there is any software on removable media described in this documentation, it is furnished under a license agreement included with the product as a separate document, in the hard copy documentation, or on the removable media in a directory file named LICENSE.TXT. If you are unable to locate a copy, please contact 3Com and a copy will be provided to you.

Unless otherwise indicated, 3Com registered trademarks are registered in the United States and may or may not be registered in other countries. 3Com and SuperStack are registered trademarks of 3Com Corporation.

Other brand and product names may be registered trademarks or trademarks of their respective holders.

**Environmental Statement**

It is 3Com’s policy to be environmentally friendly in all its operations. This manual is printed on paper that comes from sustainable, managed European forests. The production process for making the pulp has a reduced ADK level (adsorbable organic halogens) resulting in elemental chlorine free paper.

The paper is fully bio-degradable and recyclable.

Part Number: DU1661-0AA02
Revision: 00
Published: January 1998