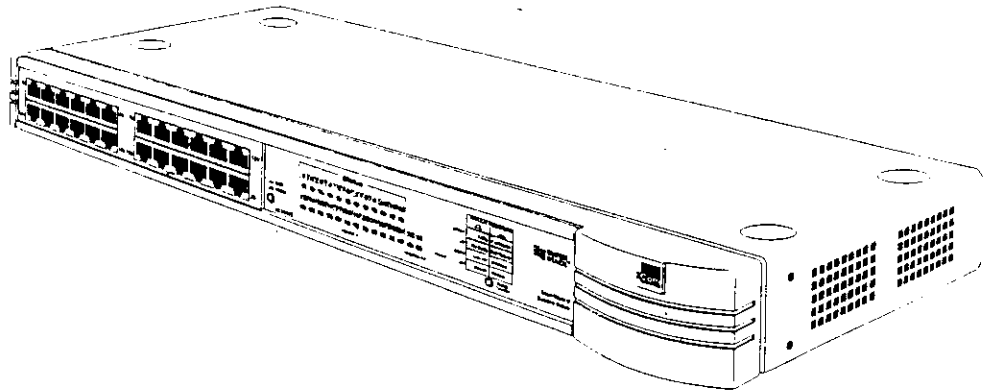


# SuperStack II

**3Com** SUPER  
STACK.



SuperStack® II Baseline Switch  
26-Port TP (3C16462)  
User Guide — BETA DRAFT



## INTRODUCTION

The SuperStack® II Baseline Switch is a versatile, easy-to-use unmanaged switch. It is ideal for users who want to build a small network or expand a larger, more established network, but do not need sophisticated management capabilities. The Baseline Switch is shipped ready for use. No configuration is necessary.

The Baseline Switch has 24 RJ45 10BASE-T ports on the front panel, and two RJ45 10/100Mbps ports on the rear panel. All ports have full duplex auto-negotiation; each port automatically determines the duplex mode (half duplex or full duplex) of the connected equipment and provides a suitable connection. In addition, each 10/100Mbps port automatically determines the speed of the connected equipment and provides either a 10BASE-T or 100BASE-TX connection.

The Baseline Switch is suited for office use where it can be free standing, wall mounted, or rack mounted (in a wiring closet or equipment room).

The Baseline Switch comes with:

- One power cord for use with the Baseline Switch
- Four standard height and two reduced height self-adhesive rubber pads
- One mounting kit
- A Warranty Registration card for you to fill in and return

The Baseline Switch can be powered either from the AC mains supply, or through an optional 3Com SuperStack® II Advanced Redundant Power System (3C16071). Contact your supplier for details.

### Switching

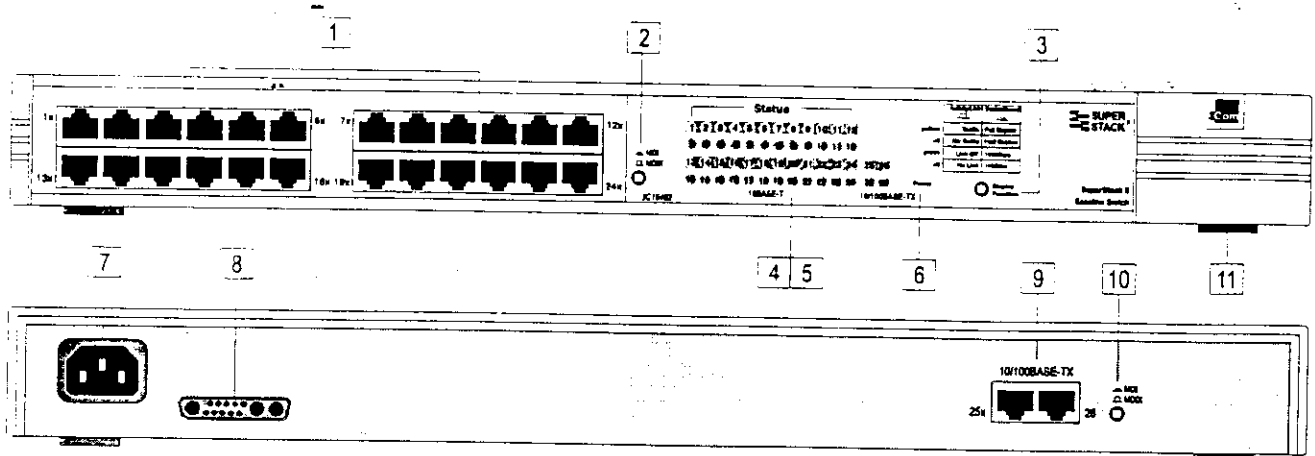
When a network of repeater hubs is in operation, any information that is sent by the workstations is passed around the whole network (regardless of the destination of the information). This results in a lot of unnecessary traffic that can slow down the network. The Baseline Switch solves this problem because it 'listens' to the network and automatically learns which workstations and network equipment can be reached through its ports. It can then selectively pass on any information by transmitting the traffic to the relevant port only (instead of all ports like a repeater hub). This operation is called *switching*.

The Baseline Switch effectively segments your network, localizing the network traffic and passing on traffic as necessary. If you have workstations that communicate frequently in the same part of the network, traffic between them is not passed to the remainder of the network, reducing the load.

DUA1646-2AAA01



# HOW TO USE THE BASELINE SWITCH



Numbered elements in this diagram refer to numbered sections in the text.

## Front Panel

### 1 24 RJ45 10BASE-T Ports



**WARNING: RJ45 ports.** These are shielded RJ45 data sockets. They cannot be used as telephone sockets. Only connect RJ45 data connectors to these sockets. Either shielded or unshielded data cables with shielded or unshielded jacks can be connected to these data sockets.

**AVERTISSEMENT: Les ports RJ45.** Il s'agit de prises femelles blindées de données RJ45. Vous ne pouvez pas les utiliser comme prise de téléphone. Branchez uniquement des connecteurs de données RJ45 sur ces prises femelles. Les câbles de données blindés ou non blindés, avec les jacks blindés ou non blindés, l'un ou l'autre, peuvent être branchés à ces prises de courant de données.

**WARNUNG: RJ45 Ports. RJ45-Anschlüsse.** Dies sind abgeschirmte RJ45-Datenbuchsen. Sie können nicht als Telefonanschlußbuchsen verwendet werden. An diesen Buchsen dürfen nur RJ45-Datenstecker angeschlossen werden. Diese Datenstecker können entweder mit abgeschirmten oder ungeschirmten Datenkabeln mit abgeschirmten oder ungeschirmten Klinkensteckern verbunden werden.

The Baseline Switch has 24 10Mbps auto-negotiating ports on the front panel. Each port's duplex mode (half duplex or full duplex) is automatically determined by the capabilities of the connected device.



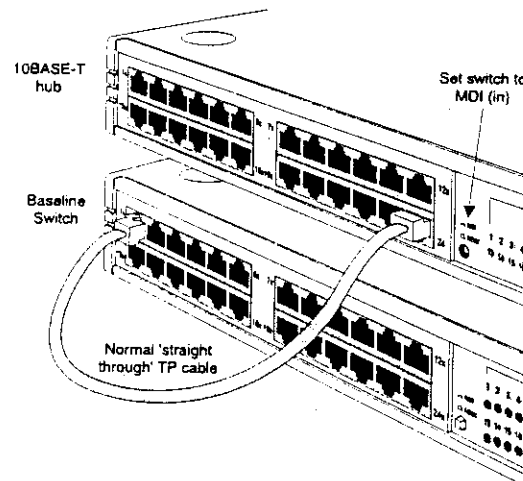
**CAUTION:** The Baseline Switch supports full duplex auto-negotiation. If the connected device does not support auto-negotiation, the Baseline Switch operates in half duplex mode (even if the connected device is operating in full duplex mode). In such a configuration, you may notice some degradation of network performance. 3Com recommends that you use devices that are capable of auto-negotiation (and that you ensure that auto-negotiation is enabled, if it is a configurable option).

Ports 1-23 are MDIX ports. Each can be connected to a device with an MDI port (such as a workstation) using a normal 'straight through' TP cable. Alternatively, you can connect to a device with MDIX ports (such as a hub) using 'cross-over' TP cable.

Port 24 is 'switch selectable' MDI/MDIX using the MDI switch, as described in 2. Using this port, you can connect to a device with MDIX ports without the need for 'cross-over' cable.

To connect a device to ports 1-24 of the Baseline Switch, use Category 3, 4, or 5 unshielded 100 Ohm TP, or shielded (screened) 150 Ohm TP, cable. The maximum length of cable for each connection is 100m (328ft). Connect one end of the cable to the chosen RJ45 port on the Baseline Switch, and the other end to the appropriate RJ45 port on the connecting device.

To connect the Baseline Switch to a SuperStack II hub using a normal 'straight through' cable, connect a port on the Baseline Switch to the MDI/MDIX port on the hub, as shown below. Ensure that the MDI switch on the hub is in (MDI).



An alternative method of connecting the Baseline Switch to a hub using a normal 'straight through' cable is to connect any MDIX port on the hub to port 24 on the Baseline Switch, ensuring that its MDI switch is set to in (MDI).

You can use 'cross-over' TP cable to connect any MDIX port on the Baseline Switch to any MDIX port on a hub.

### 2 MDI Switch (for port 24)



**Out** Port 24 is an MDIX port. It can be connected to a device with an MDI port (such as a workstation) using a normal 'straight through' TP cable.



**In** Port 24 is an MDI port. It can be connected to an MDIX port on a device (such as a hub) using a normal 'straight through' TP cable.

### 3 Display Function Switch

This switch affects the Status LEDs described in 4 and 5:



**Out** This is the normal position of the switch. The Status LEDs show the Activity and Link Status of each port.



**In** When the switch is pressed in, the Status LEDs show the Duplex and Speed Status of each port. The switch returns to the out position when released.

#### 4 Activity / Duplex Status LEDs

The first (top) and third row of LEDs, which are colored yellow, show the activity or duplex status of the related ports:

- When the Display Function switch is **out** (its normal position), these LEDs show the **activity** of each port. The LED flashes when packets are received or transmitted on the port.
- When the Display Function switch is pressed **in**, these LEDs show the **duplex status** of each port:
  - On** The port is operating in full duplex mode.
  - Off** If the link is established, the port is operating in half duplex mode.

#### 5 Link / Speed Status LEDs

The second and fourth (bottom) row of Status LEDs, which are colored green, show the link or speed status of the related ports:

- When the Display Function switch is **out** (its normal position), these LEDs show the **link status** of each port:
  - On** The link has been established and the segment attached to the port is functional.
  - Off** The link has not been established. Either nothing is connected to the port, or there is a problem:
    - Check that the attached device is powered on.
    - Check that the cable is the correct type and is not faulty.

If the LED is off for port 24 or 26, check the setting of its MDI switch. Refer to **2** or **10** respectively. Try toggling the MDI switch.

If the port is connected to another unit's MDI/MDIX port, check the other unit's MDI switch position.

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.
- When the Display Function switch is pressed **in**, these LEDs show the **speed status** of each port:
  - On** The link is operating at 100Mbps (ports 25 and 26 only).
  - Off** If the link is present, it is operating at 10Mbps.

#### 6 Power LED

The Power LED shows a number of conditions:

- Green** The unit is powered on and ready for use.
- Flashing green** The unit is performing its self test after being powered on. If the LED is still flashing green 1 minute after power up, there is a fault. Contact your supplier.
- 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.
- Off** The unit is not receiving power:
  - Check the power cord is connected correctly.
  - There may be a problem with the fuse within the power cord's plug. Try replacing the power cord with another of the same type.
  - If the unit still does not operate, contact your supplier.

### Rear Panel Connections

#### 7 Power Supply

The Baseline Switch automatically adjusts to the supply voltage. Only use the power cord that is supplied with the Baseline Switch, or a power cord of the same type.

#### 8 Socket for Redundant Power System

Only connect a 3Com SuperStack II Advanced Redundant Power System (3C16071) to this socket. An appropriate power module and cable is required. The connector on the Baseline Switch is a Type 2 socket. For details, follow the installation instructions in the guides that accompany the Advanced Redundant Power System and the power module.

#### 9 Two RJ45 10/100 Ports



**WARNING: RJ45 ports.** These are shielded RJ45 data sockets. They cannot be used as telephone sockets. Only connect RJ45 data connectors to these sockets. Either shielded or unshielded data cables with shielded or unshielded jacks can be connected to these data sockets.

**AVERTISSEMENT: Les ports RJ45.** Il s'agit de prises femelles blindées de données RJ45. Vous ne pouvez pas les utiliser comme prise de téléphone. Branchez uniquement des connecteurs de données RJ45 sur ces prises femelles. Les câbles de données blindés ou non blindés, avec les jacks blindés ou non blindés, l'un ou l'autre, peuvent être branchés à ces prises de courant de données.

**WARNUNG: RJ45 Ports. RJ45-Anschlüsse.** Dies sind abgeschirmte RJ45-Datenbuchsen. Sie können nicht als Telefonanschlußbuchsen verwendet werden. An diesen Buchsen dürfen nur RJ45-Datenstecker angeschlossen werden. Diese Datenstecker können entweder mit abgeschirmten oder ungeschirmten Datenkabeln mit abgeschirmten oder ungeschirmten Klinckensteckern verbunden werden.

The Baseline Switch has two 10/100Mbps auto-negotiating ports on the rear panel. Each can be connected to either a 10BASE-T or a 100BASE-TX device. The port's speed and duplex mode (half duplex or full duplex) are automatically determined by the capabilities of the connected device.



**CAUTION:** The Baseline Switch supports full duplex auto-negotiation. If the connected device does not support auto-negotiation, the Baseline Switch operates in half duplex mode (even if the connected device is operating in full duplex mode). In such a configuration, you may notice some degradation of network performance. 3Com recommends that you use devices that are capable of auto-negotiation (and that you ensure that auto-negotiation is enabled, if it is a configurable option).

Port 25 is an MDIX port. It can be connected to a device with an MDI port (such as a workstation) using a normal 'straight through' TP cable. Alternatively, you can connect it to a device with MDIX ports using 'cross-over' TP cable.

Port 26 is 'switch selectable' MDI/MDIX using the MDI switch, as described in **10**. Using this port, you can connect to a device with MDIX ports without the need for 'cross-over' cable.

To connect a device to port 25 or 26 of the Baseline Switch, use Category 5 unshielded or shielded (screened) 100 Ohm TP cable (or Category 3 cable for a 10Mbps-only connection). The maximum length of cable for each connection is 100m (328ft).

#### 10 MDI Switch (for port 26)



**Out** Port 26 is an MDIX port. It can be connected to a device with an MDI port (such as a workstation) using a normal 'straight through' TP cable.



**In** Port 26 is an MDI port. It can be connected to an MDIX port on a device (such as a hub) using a normal 'straight through' TP cable.

#### 11 Self-adhesive Pads

The Baseline Switch is supplied with four standard height and two reduced height self-adhesive rubber pads. Usage of the pads depends on where the Baseline Switch is placed:

- Use the four standard height pads if the unit is to be placed on a flat surface or stacked with another SuperStack II product of the same dimensions.
- Use the two reduced height pads and two of the standard height pads if the unit is to be stacked on a SuperStack II unit of different dimensions — Line up the front of the units, and use the two standard height pads at the front (to fit the recess of the unit beneath) and use the two reduced height pads at the back.



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 of the upper unit locate with the recesses of the lower unit.

## Positioning the Baseline Switch



**CAUTION:** If installing the Baseline Switch in a stack of different size SuperStack II units, the smaller units must be installed above the larger ones. Do not have a free standing stack of more than six units.

When deciding where to position the Baseline Switch 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, and away from 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 Baseline Switch can be mounted in a 19-inch equipment rack, or wall mounted using the Mounting Kit. Refer to "Mounting Kit Instructions" on page 6.

## Power Up

Use the following sequence to power up the Baseline Switch:

- 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 the power supply at the socket. If you are using the Advanced Redundant Power System, ensure it is powered on.

When the Baseline Switch is powered on, the Power LED should first flash green, then stay lit. If it does not, refer to 6.

## Spot Checks

At frequent intervals you should visually check the Baseline Switch. 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	Where possible, check that the cooling fans are operating by listening to the unit. The fans are fitted near to the front right hand side of the unit (when viewed from the front).

If you experience any problems operating the Baseline Switch, refer to "Problem Solving" on page 6.



# TECHNICAL INFORMATION

## Related Standards

The SuperStack II Baseline Switch has been designed to the following standards:

<b>Functional</b>	ISO 8802-3, IEEE 802.3 (Ethernet), IEEE 802.3u (Fast Ethernet), IEEE 802.3x (Flow Control)
<b>Safety</b>	UL 1950, EN 60950, CSA 22.2 #950, IEC 950
<b>EMC Emissions</b>	EN 55022 Class B*, FCC Part 15 Subpart B Class A, ICES-003 Class A, VCCI Class B*, AS/NZS 3548 Class B*
	*Category 5 screened (shielded) cables must be used to ensure compliance with the Class B requirements of this standard. 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.
<b>Immunity</b>	EN 50082-1

## Environmental

<b>Operating Temperature</b>	0–50°C (32–122°F)
<b>Humidity Standard</b>	10–95% (non-condensing) EN 60068 (IEC 68)

## Physical

<b>Width</b>	431mm (17.0in.)
<b>Depth</b>	169mm (6.6in.)
<b>Height</b>	44mm (1.7in.) or 1U
<b>Weight</b>	2.6kg (5.8lb)
<b>Mounting</b>	Free standing, or 19in. rack or wall mounted using the mounting kit supplied

## Electrical

<b>Power Inlet</b>	IEC 320
<b>AC Line Frequency</b>	50/60 Hz
<b>Input Voltage</b>	100–240 VAC
<b>Current Rating</b>	0.4 Amps (maximum)
<b>Maximum Power Consumption</b>	60 VA
<b>Maximum Power Dissipation</b>	205 BTU/hr



## SAFETY INFORMATION

Please read the following safety information carefully before installing the Baseline Switch.



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

- If installing the Switch unit in a stack with SuperStack II Hub units, the Baseline Switch unit must be installed below the narrower Hub units.
- The unit should never be connected to an A.C. outlet (power supply) without an earth (ground) connection.
- The unit must be connected to an earthed (grounded) outlet to comply with European safety standards.
- The appliance coupler (the connector to the unit and not the wall plug) must have a configuration for mating with an EN60320/IEC320 appliance inlet.
- The socket outlet must be near to the unit and easily accessible. You can only remove power from the unit by disconnecting the power cord from the outlet.
- This unit operates under SELV (Safety Extra Low Voltage) conditions according to IEC 950. The conditions are only maintained if the equipment to which it is connected also operates under SELV conditions.
- Only connect an Advanced Redundant Power System (3C16070) with Type 2 Power Modules and Type 2 cables to the Redundant Power System socket.

### France and Peru only

This unit cannot be powered from IT<sup>1</sup> supplies. If your supplies are of IT type, this unit must 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).

### Power Cord Set

This must be approved for the country where it will be used.

- |                   |  |
|-------------------|--|
| U.S.A. and Canada | ■ The cord set must be UL-approved and CSA certified.  |
|                   | ■ The minimum specifications for the flexible cord are:<br>No. 18 AWG<br>Type SV or SJ<br>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.   |

<sup>1</sup>Impedance à la terre



## L'INFORMATION DE SÉCURITÉ IMPORTANTE

Veillez lire à fond l'information de la sécurité suivante avant d'installer le Baseline Switch.



**AVERTISSEMENT:** L'installation et la dépose de ce groupe doivent être confiées à un personnel qualifié.

- Si vous entassez l'unité Switch avec les unités SuperStack II Hub, l'unité Baseline Switch doit être installée en dessous des unités Hub plus étroites.
- L'unité ne devrait pas être branchée à une prise de courant C.A. (source de courant) sous aucun prétexte sans un branchement mise à la terre (mise à la masse).
- Vous devez raccorder ce groupe à une sortie mise à la terre (mise à la masse) afin de respecter les normes européennes de sécurité.
- Le coupleur d'appareil (le connecteur du groupe et non pas la prise murale) doit respecter une configuration qui permet un branchement sur une entrée d'appareil EN60320/IEC 320.
- La prise secteur doit se trouver à proximité de l'appareil et son accès doit être facile. Vous ne pouvez mettre l'appareil hors circuit qu'en débranchant son cordon électrique au niveau de cette prise.
- L'appareil fonctionne à une tension extrêmement basse de sécurité qui est conforme à la norme CEI 950. Ces conditions ne sont maintenues que si l'équipement auquel il est raccordé fonctionne dans les mêmes conditions.
- Branchez uniquement un Advanced Redundant Power System (3C16070) avec Type 2 Power Modules et Type 2 câbles sur la prise femelle du Redundant Power System.

### France et Pérou uniquement:

Ce groupe ne peut pas être alimenté par un dispositif à impédance à la terre. Si vos alimentations sont du type impédance à la terre, ce groupe doit être alimenté par une tension de 230 V (2 P+T) par le biais d'un transformateur d'isolement à rapport 1:1, avec un point secondaire de connexion portant l'appellation Neutre et avec raccordement direct à la terre (masse).

### Cordon électrique

Il doit être agréé dans le pays d'utilisation.

- |                       |   |
|-----------------------|---|
| Etats-Unis et Canada: | ■ Le cordon doit avoir reçu l'homologation des UL et un certificat de la CSA.   |
|                       | ■ Le cordon souple doit respecter, à titre minimum, les spécifications suivantes:<br>calibre 18 AWG<br>type SV ou SJ<br>à 3 conducteurs                                     |
|                       | ■ Le cordon doit être en mesure d'acheminer un courant nominal d'au moins 10 A.   |
|                       | ■ La prise femelle de branchement doit être du type à mise à la terre (mise à la masse) et respecter la configuration NEMA 5-15P (15 A, 125 V) ou NEMA 6-15P (15 A, 250 V). |
| Danemark:             | ■ La prise mâle d'alimentation doit respecter la section 107-2 D1 de la norme DK2 1a ou DK2 5a.   |
| Suisse:               | ■ La prise mâle d'alimentation doit respecter la norme SEV/ASE 1011.  |



## WICHTIGE SICHERHEITSINFORMATIONEN

Bitte unbedingt vor dem Einbauen des Baseline Switch Einheit die folgenden Sicherheitsanweisungen durchlesen.



**WARNUNG:** Die Installation und der Ausbau des Geräts darf nur durch Fachpersonal erfolgen.

- Wenn die Baseline Switch Einheit in einer Stapel mit anderen SuperStack II Hub Einheiten eingebaut werden soll, muß die Baseline Switch Einheit unter die schmalere Hub Einheiten eingebaut werden.
- Das Gerät ist unter keinen Umständen an einen Wechselstrom (A.C.) Netzstecker anzuschließen ohne Erdungsleitung.
- Das Gerät muß an eine geerdete Steckdose angeschlossen werden, die die europäischen Sicherheitsnormen erfüllt.
- Der Anschlußkabelsatz muß mit den Bestimmungen des Landes übereinstimmen, in dem er verwendet werden soll.

- Der Gerätestecker (der Anschluß an das Gerät, nicht der Wandsteckdosenstecker) muß eine passende Konfiguration für einen Geräteeingang gemäß EN60320/IEC320 haben.
- Die Netzsteckdose muß in der Nähe des Geräts und leicht zugänglich sein. Die Stromversorgung des Geräts kann nur durch Herausziehen des GeräteNetzkabels aus der Netzsteckdose unterbrochen werden.
- Der Betrieb dieses Geräts erfolgt unter den SELV-Bedingungen (Sicherheitskleinstspannung) gemäß IEC 950. Diese Bedingungen sind nur gegeben, wenn auch die an das Gerät angeschlossenen Geräte unter SELV-Bedingungen betrieben werden.
- Nur ein Advanced Redundant Power System (3C16070) mit Type 2 Power Modules und Type 2 Kabel an den Redundant Power System Anschluß anschließen.



# MOUNTING KIT INSTRUCTIONS

## Introduction

The Baseline Switch 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 Baseline Switch" on page 4.

## 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.

### 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 supplied in the mounting kit and fully tighten with a screwdriver.

Repeat steps 2 and 3 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 supplied in the mounting kit and fully tighten with a screwdriver.

Repeat steps 2 and 3 for the other side of the units.

## To wall mount the unit(s):

- 1 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:
- 2 Position the unit(s) against the wall (or plywood) ensuring that the ventilation holes face sideways. (The unit can be mounted with the front panel facing upwards or downwards.) Mark on the wall the position of the screws holes for both wall brackets. Drill the four holes.
- 3 Using suitable fixings and screws (not provided), attach the unit(s) securely to the wall (or plywood).
- 4 Reconnect all cables.

## Rack Mounting the Units

The Baseline Switch is 1U high and will fit a standard 19-inch rack.



**CAUTION:** Disconnect all cables from the unit before continuing. Remove the self-adhesive pads from the underside of 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 supplied in the mounting kit 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 19-inch rack and secure with suitable screws (not provided).
- 6 Reconnect all cables.

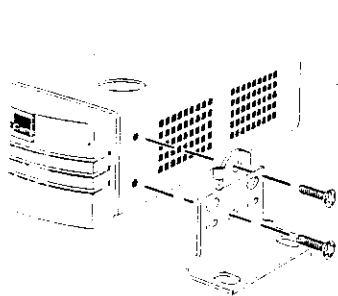


Figure 1 Wall Mounting One Unit

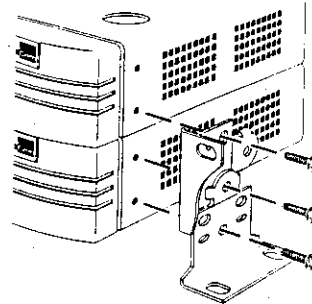


Figure 2 Wall Mounting Two Units

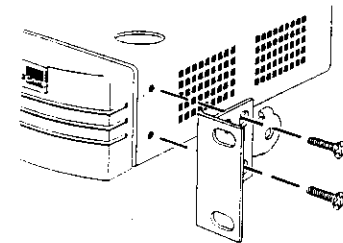


Figure 3 Rack Mounting



# PROBLEM SOLVING

Refer to the information about LEDs given earlier in this guide to see if the problem can be identified and rectified. Here are some common problems that can occur:

**Link Status LED not lit for a port that has a connection.** There is a problem with this connection. Check that:

- The device being connected to is powered on and operating correctly.
- The cable is connected at both ends.
- That you are using a TP cable that is:
  - 'Straight through', to connect an MDIX port to an MDI port.
  - 'Cross-over', to connect an MDIX port to an MDIX port, or an MDI port to an MDI port.
- The cable is not damaged.
- If the connection is to a workstation, that the workstation's network interface is installed and configured correctly.

**All Activity LEDs appear to be lit continually.** There may be broadcast storms on the network. Remove port connections one at a time, waiting a few seconds between each port. If the LEDs go off after removing a port connection, the device that was connected to that port is introducing an excessive amount of broadcast frames to the network (some pieces of network equipment operate by sending out broadcast frames regularly). Refer to the documentation that accompanies the device for information on disabling the broadcast operation.

If the problem persists and the unit still does not operate successfully, contact your supplier with the following information before returning the unit:

- Product number and serial number (printed on a label supplied with the unit)
- A brief description of the fault



## LIFETIME LIMITED WARRANTY

The duration of the warranty for the SuperStack II Baseline Switch (3C16462) is lifetime, excluding the power supply and fans which have a one (1) year warranty.

Advance hardware exchange is available during the first year from your date of purchase in accordance with 3Com's standard terms and conditions for such service. After the first year, the warranty reverts to 3Com's standard lifetime limited warranty.

To qualify for the lifetime limited warranty and the advance hardware exchange, you must submit the appropriate product warranty registration card to 3Com, otherwise this product will be warranted for a period of one (1) year without advance hardware exchange.

**HARDWARE:** 3Com warrants its hardware products to be free from defects in workmanship and materials, under normal use and service, for the following lengths of time from the date of purchase from 3Com or its Authorized Reseller:

Network adapters	Lifetime
Other hardware products	One year (unless otherwise specified above)
Spare parts and spares kits	90 days

If a product does not operate as warranted above during the applicable warranty period, 3Com shall, at its option and expense, 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.

3Com shall not be responsible for any software, firmware, information, or memory data of Customer contained in, stored on, or integrated with any products returned to 3Com for repair, whether under warranty or not.

**SOFTWARE:** 3Com warrants that the software programs licensed from it will perform in substantial conformance to the program specifications therefor for a period of ninety (90) days from the date of purchase from 3Com or its Authorized Reseller. 3Com warrants the media containing software against failure during the warranty period. No updates are provided. 3Com's sole obligation with respect to this express warranty shall be (at 3Com's discretion) to refund the purchase price paid by Customer for any defective software products, or to replace any defective media with software which substantially conforms to 3Com's applicable published specifications. Customer assumes responsibility for the selection of the appropriate applications program and associated reference materials. 3Com makes no warranty or representation that its software products will work in combination with any hardware or applications software products provided by third parties, that the operation of the software products will be uninterrupted or error free, or that all defects in the software products will be corrected. For any third party products listed in the 3Com software product documentation or specifications as being compatible, 3Com will make reasonable efforts to provide compatibility, except where the non-compatibility is caused by a "bug" or defect in the third party's product.

**STANDARD WARRANTY SERVICE:** Standard warranty service for hardware products may be obtained by delivering the defective product, accompanied by a copy of the dated proof of purchase, to 3Com's Corporate Service Center or to an Authorized 3Com Service Center during the applicable warranty period. Standard

warranty service for software products may be obtained by telephoning 3Com's Corporate Service Center or an Authorized 3Com Service Center, within the warranty period. Products returned to 3Com's Corporate Service Center must be pre-authorized by 3Com with a Return Material Authorization (RMA) number marked on the outside of the package, and sent prepaid, insured, and packaged appropriately for safe shipment. The repaired or replaced item will be shipped to Customer, at 3Com's expense, not later than thirty (30) days after receipt of the defective product by 3Com.

**WARRANTIES EXCLUSIVE:** IF A 3COM PRODUCT DOES NOT OPERATE AS WARRANTED ABOVE, CUSTOMER'S SOLE REMEDY FOR BREACH OF THAT WARRANTY SHALL BE REPAIR, REPLACEMENT, OR REFUND OF THE PURCHASE PRICE PAID, AT 3COM'S OPTION. TO THE FULL EXTENT ALLOWED BY LAW, THE FOREGOING WARRANTIES AND REMEDIES ARE EXCLUSIVE AND ARE IN LIEU OF ALL OTHER WARRANTIES, TERMS, OR CONDITIONS, EXPRESS OR IMPLIED, EITHER IN FACT OR BY OPERATION OF LAW, STATUTORY OR OTHERWISE, INCLUDING WARRANTIES, TERMS, OR CONDITIONS OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, AND SATISFACTORY QUALITY. 3COM NEITHER ASSUMES NOR AUTHORIZES ANY OTHER PERSON TO ASSUME FOR IT ANY OTHER LIABILITY IN CONNECTION WITH THE SALE, INSTALLATION, MAINTENANCE OR USE OF ITS PRODUCTS.

3COM SHALL NOT BE LIABLE UNDER THIS WARRANTY IF ITS TESTING AND EXAMINATION DISCLOSE THAT THE ALLEGED DEFECT IN THE PRODUCT DOES NOT EXIST OR WAS CAUSED BY CUSTOMER'S OR ANY THIRD PERSON'S MISUSE, NEGLIGENCE, 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.

**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 ARISING OUT OF OR IN CONNECTION WITH THE SALE, INSTALLATION, MAINTENANCE, USE, PERFORMANCE, FAILURE, OR INTERRUPTION OF ITS PRODUCTS, EVEN IF 3COM OR ITS AUTHORIZED RESELLER HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES, AND LIMITS ITS LIABILITY TO REPAIR, REPLACEMENT, OR REFUND OF THE PURCHASE PRICE PAID, AT 3COM'S OPTION. THIS DISCLAIMER OF LIABILITY FOR DAMAGES WILL NOT BE AFFECTED IF ANY REMEDY PROVIDED HEREIN SHALL FAIL OF ITS ESSENTIAL PURPOSE.

Some countries, states, or provinces do not allow the exclusion or limitation of implied warranties or the limitation of incidental or consequential damages for certain products supplied to consumers or the limitation of liability for personal injury, so the above limitations and exclusions may be limited in their application to you. This warranty gives you specific legal rights which may vary depending on local law.

**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: (408) 764-5000

9/1/96



## ELECTRO-MAGNETIC COMPATIBILITY

### FCC Statement

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference to radio communications, in which case the user will be required to correct the interference at their own expense.

### CSA Statement

This Class A digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Cet appareil numérique de la classe A respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

### VCCI Statement

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取扱説明書に従って正しい取り扱いをして下さい。

### 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.



# TECHNICAL SUPPORT

## World Wide Web 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 in to 3ComBBS using a digital modem for fast access up to 56 Kbps. 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:

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

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**3Com Centre**  
Boundary Way  
Hemel Hempstead  
Herts HP2 7YU  
U.K.



# PRODUCTS

The SuperStack II Baseline Switch is part of the extensive SuperStack II range of 3Com products. This range includes hubs, switches, power systems, and other networking equipment, and is

continually being developed. Contact your supplier for the latest product information and to order these products.



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Revision: 00  
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## Federal Communications Commission (FCC) Statement

This Equipment has been tested and found to comply with the limits for a class B digital device, Pursuant to Part 15 of the FCC rules, These Limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and no, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocated the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio /TV technician for help.

## Warning:

A shielded-type power cord is required in order to meet FCC emission limits and also to prevent interference to the nearby radio and television reception. It is essential that only the supplied power cord be used.

Used only shielded cables to connect I/O devices to this equipment.

You are cautioned that changes or modification not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

### 警告使用者:

這是甲類的資訊產品，在居住的環境中使用時，可能會造成射頻干擾，在這種情況下，使用者會被要求採取某些適當的對策。

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