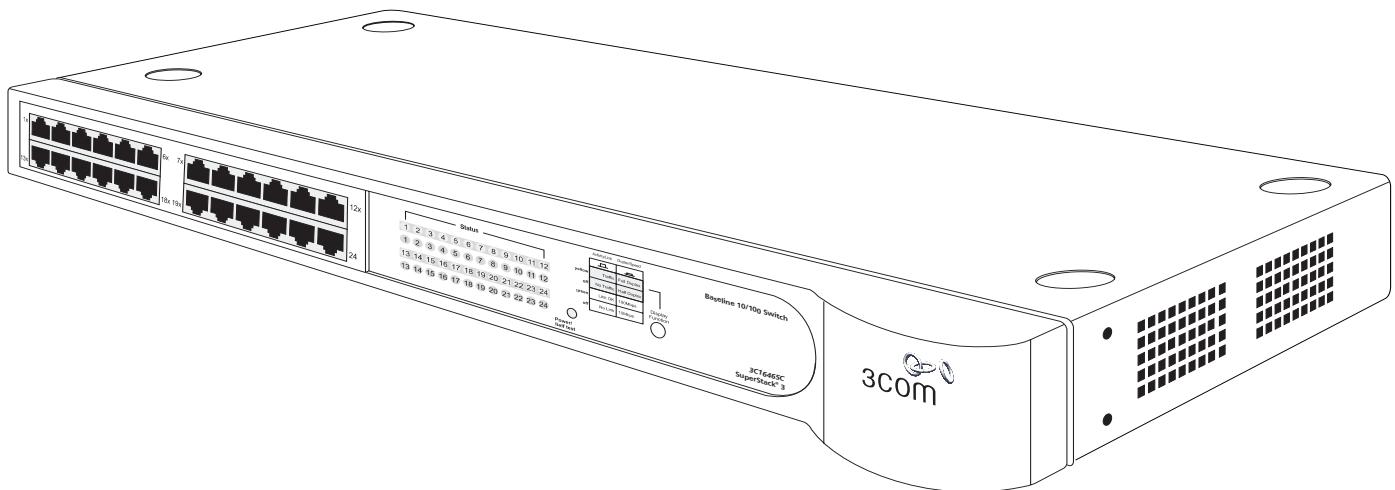


SuperStack® 3 Baseline 10/100 Switch 12-Port (3C16464C) and 24-Port (3C16465C) User Guide

DUA1646-4AAA05



INTRODUCTION

The SuperStack® 3 Baseline 10/100 Switch is a versatile, easy-to-use unmanaged switch. It is ideal for users who want the high-speed performance of 10/100 switching but do not need sophisticated management capabilities. The Baseline 10/100 Switch is shipped ready for use. No configuration is necessary.

The Baseline 10/100 Switch has 12 or 24 shielded RJ-45, 10/100 Mbps auto-negotiating ports on the front panel. Each port automatically determines the speed and duplex mode of the connected equipment and provides a suitable switched connection. Each port also provides Auto MDIX.

The Baseline 10/100 Switch is suited for office use where it can be free standing, or rack mounted (in a wiring closet or equipment room).

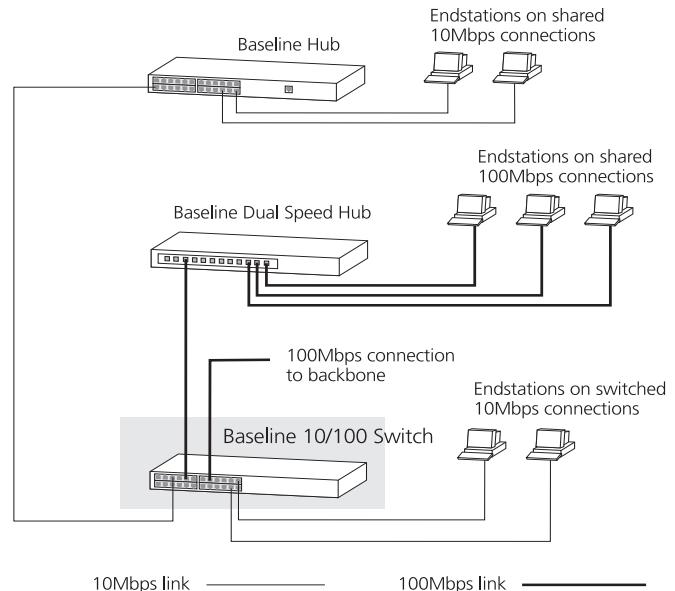
The Baseline 10/100 Switch comes with:

- One power cord for use with the Baseline 10/100 Switch
- Four self-adhesive rubber pads
- One mounting kit

The Switch can be powered either from the AC mains supply, or through an optional 3Com SuperStack 3 Advanced Redundant Power System (3C16071B). Contact your supplier for details.

The Baseline 10/100 Switch provides high performance switched connections to 10 Mbps and 100 Mbps hubs, servers and workstations that require a dedicated switched link.

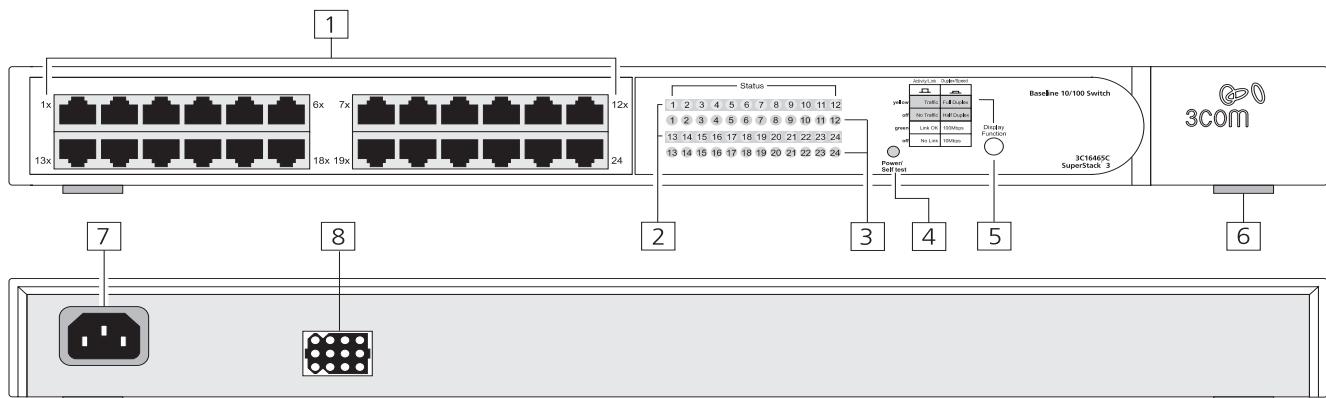
The diagram below shows an example configuration:



10Mbps link —————

100Mbps link —————

HOW TO USE THE BASELINE 10/100 SWITCH



Numbered elements in this diagram refer to numbered sections in the text. A 24-port unit is shown.

Front Panel

1 24 RJ-45 10/100 Ports

WARNING: RJ-45 ports. These are shielded RJ-45 data sockets. They cannot be used as standard traditional telephone sockets, or to connect the unit to a traditional PBX or public telephone network. Only connect RJ-45 data connectors, network telephony systems, or network telephones to these sockets. Either shielded or unshielded data cables with shielded or unshielded jacks can be connected to these data sockets.

AVERTISSEMENT: Les ports RJ-45. Ceux-ci sont protégés par des prises de données. Ils ne peuvent pas être utilisés comme prises de téléphone conventionnelles standard, ni pour la connection de l'unité à un réseau téléphonique central privé ou public. Raccorder seulement connecteurs de données RJ-45, systèmes de réseaux de téléphonie ou téléphones de réseaux à ces prises. Il est possible de raccorder des câbles protégés ou non protégés avec des jacks protégés ou non protégés à ces prises de don.

WARNUNG: RJ-45-Porte. Diese Porte sind geschützte Datensteckdosen. Sie dürfen weder wie normale traditionelle Telefonsteckdosen noch für die Verbindung der Einheit mit einem traditionellem privatem oder öffentlichem Telefonnetzwerk gebraucht werden. Nur RJ-45-Datenanschluß, Telefonnetzsysteme or Netztelefone an diese Steckdosen anschließen. Entweder geschützte oder ungeschützte Buchsen dürfen an diese Datensteckdosen angeschlossen werden.

10BASE-T/100BASE-TX Ports

The Baseline 10/100 Switch has 12 (3C16464C) or 24 (3C16465C) 10/100 Mbps auto-negotiating ports.

To connect a device to the Baseline 10/100 Switch, use Category 5 unshielded or shielded (screened) 100 Ohm TP cable (or Category 3 cable for a 10 Mbps connection). The maximum length of cable for each connection is 100m (328ft). Connect one end of the cable to an RJ-45 port on the Baseline 10/100 Switch, and the other end to the appropriate RJ-45 port on the connecting device.

Each port on the Baseline 10/100 Switch is auto-negotiating: its speed and duplex mode (half duplex or full duplex) are automatically determined by the capabilities of the connected device.

Each port is Auto MDIX and can be connected to either a 10BASE-T or a 100BASE-TX device.



If you connect two Baseline 10/100 Switch units together, the link between them operates at 100Mbps full duplex. You must use Category 5 cable when connecting the units.



CAUTION: The Baseline 10/100 Switch supports full duplex auto-negotiation. If the connected device does not support auto-negotiation, the Switch will operate in half duplex mode (even if the 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).

2 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:

Status	Meaning
Yellow	The port is operating in full duplex mode.
Off	If the link is established, the port is operating in half duplex mode.

3 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:

Status	Meaning
Green	The link has been established and the segment attached to the port is functional.
Off	If the link has not been established, either nothing is connected to the port, or there is a problem: <ul style="list-style-type: none">Check that the attached device is powered on.Check that the cable is the correct type and is not faulty. If these checks do not identify the cause of the 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:

Status	Meaning
Green	The link is operating at 100 Mbps.
Off	If the link is present, it is operating at 10 Mbps.

4 Power/Self Test LED

The Power/Self test LED shows the power status of the Switch:

Status	Meaning
Green	The unit is powered on and ready for use.
Off	The unit is not receiving power: <ul style="list-style-type: none"> Check the power cord is connected correctly. If the unit still does not operate, contact your supplier.

5 Display Function Switch

This switch affects the Status LEDs described in **2** and **3**.

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

INSTALLING THE SWITCH

Positioning the Baseline 10/100 Switch



CAUTION: If installing the Baseline 10/100 Switch in a stack of different size SuperStack 3 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 10/100 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 recommends that you provide a minimum of 25 mm (1 in.) 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 Mounting

The Baseline 10/100 Switch can be mounted in a 19-inch equipment rack using the Mounting Kit. Refer to ["Mounting Kit Instructions"](#) on [page 5](#).

6 Self-adhesive Pads

The unit is supplied with four self-adhesive rubber pads.



You do not need to apply the pads if you intend to rack 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.

Rear Panel Connections

7 Power Supply

The Baseline 10/100 Switch automatically adjusts to the supply voltage. Only use the power cord that is supplied with the Baseline 10/100 Switch.

8 Socket for Redundant Power System (RPS)

Only connect a 3Com SuperStack 3 Advanced RPS (3C16070, 3C16071, 3C16071A or 3C16071B) to this socket. An appropriate power module and cable is required. The connector on the Baseline 10/100 Switch is a Type 1, 60W socket. For details, follow the installation instructions in the guides that accompany the Advanced RPS and the power module.

Power Up

Use the following sequence to power up the Baseline 10/100 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 switch is powered on, the Power/Self Test LED should first flash green, then stay lit. If it does not, refer to **4**.

Spot Checks

At frequent intervals you should visually check the Baseline 10/100 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 that all external cabling connections are secure and that no cables are pulled taut.

If you experience any problems operating the Baseline 10/100 Switch, refer to ["Problem Solving"](#) on [page 5](#).

SAFETY INFORMATION

Please read the following safety information carefully before installing the Baseline 10/100 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 3 Hub units, the Baseline 10/100 Switch unit must be installed below the narrower Hub units.
- The unit must be connected to an earthed (grounded) outlet to comply with international safety standards.
- Do not connect the unit to an A.C. outlet (power supply) without an earth (ground) connection.
- 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 60. 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, 3C16071, 3C16071A or 3C16071B) or Redundant Power System (3C565047) to the Redundant Power System socket.

France and Peru only

This unit cannot be powered from IT[†] 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).

[†] Impédance à la terre

Power Cord Set

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

- | | |
|-------------------|--|
| U.S.A. 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. |
| UK | ■ The supply plug must comply with BS1363 (3-pin 13-amp) and be fitted with a 5A fuse which complies with BS1362. |
| Europe | ■ The mains cord must be <HAR> or <BASEC> marked and be of type HO3VVF3GO.75 (minimum). |
| | ■ The supply plug must comply with CEE7/7 ("SCHUKO") |
| | ■ The mains cord must be <HAR> or <BASEC> marked and be of type HO3VVF3GO.75 (minimum). |

L'INFORMATION DE SÉCURITÉ IMPORTANTE

Veuillez lire à fond l'information de la sécurité suivante avant d'installer le Baseline 10/100 Switch .



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

- Si vous entassez l'unité Switch avec les unités SuperStack 3 Hub, l'unité Baseline 10/100 Switch doit être installée en dessous des unités Hub plus étroites.
- Ne branchez pas votre appareil sur une prise secteur (alimentation électrique) lorsqu'il n'y a pas de connexion de 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 internationales 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 IEC60950. 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, 3C16071, 3C16071A ou 3C16071B) ou un Redundant Power System (3C565047) 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:
calibre 18 AWG
type SV ou SJ
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. |
| Europe | ■ La prise secteur doit être conforme aux normes CEE 7/7 ("SCHUKO")
■ LE cordon secteur doit porter la mention <HAR> ou <BASEC> et doit être de type HO3VVF3GO.75 (minimum). |

WICHTIGE SICHERHEITSINFORMATIONEN

Bitte unbedingt vor dem Einbauen des Baseline 10/100 Switch Einheit die folgenden Sicherheitsanweisungen durchlesen.



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

- Wenn die Baseline 10/100 Switch Einheit in einer Stapel mit anderen SuperStack 3 Hub Einheiten eingebaut werden soll, muß die Baseline 10/100 Switch Einheit unter die schmaleren Hub Einheiten eingebaut werden.
- Das Gerät nicht an eine Wechselstromsteckdose anschließen, die nicht geerdet ist.
- Das Gerät muß an eine geerdete Steckdose angeschlossen werden, die die internationalen Sicherheitsnormen erfüllt.
- 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 60. 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, 3C16071, 3C16071A oder 3C16071B) oder Redundant Power System (3C565047) an den Redundant Power System Anschluß anschließen.

Stromkabel. Dies muss von dem Land, in dem es benutzt wird geprüft werden:

- | | |
|---------|---|
| Schweiz | ■ Dieser Stromstecker muß die SEV/ASE 1011 Bestimmungen einhalten. |
| Europe | ■ Das Netzkabel muß vom Typ HO3VVF3GO.75 (Mindestanforderung) sein und die Aufschrift <HAR> oder <BASEC> tragen.
■ Der Netzstecker muß die Norm CEE 7/7 erfüllen ("SCHUKO"). |

MOUNTING KIT INSTRUCTIONS

Introduction

The Baseline 10/100 Switch is supplied with two mounting brackets and four screws. These are used for rack mounting the unit. When mounting the unit, you should take note of the guidelines given in ["Positioning the Baseline 10/100 Switch"](#) on [page 3](#).

Rack Mounting the Units

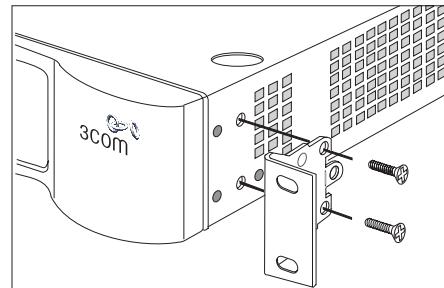
The Baseline 10/100 Switch is 1U high and will fit a standard 19-inch rack.



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 (refer to the figure following step 6).

- 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.



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.
- 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

TECHNICAL INFORMATION

Related Standards

The SuperStack 3 Baseline 10/100 Switch has been designed to the following standards:

Functional	ISO 8802-3, IEEE 802.3 (Ethernet), IEEE 802.3u (Fast Ethernet), IEEE 802.3x (Flow Control)
Safety	UL 1950, EN 60950, CSA 22.2 #950, IEC 60950
EMC Emissions	EN 55022 Class A, FCC Part 15 Subpart B Class A, ICES-003 Class A, VCCI Class A, AS/NZS 3548 Class A, CNS 13438 Class A
Immunity	EN 55024

Environmental

Operating Temperature 0–50°C (32–122°F)

Humidity 10–95% (non-condensing)

Physical

Width	440 mm (17.3 in.)
Depth	173 mm (6.8 in.)
Height	44 mm (1.7 in.) or 1U
Weight	2.6 kg (5.8 lb)
Mounting	Free standing, or 19in. rack mounted using the mounting kit supplied

Electrical

Power Inlet	IEC 320
AC Line Frequency	50/60 Hz
Input Voltage	100–240 VAC
Current Rating	1 Amps (maximum)
Maximum Power Consumption	3C16464C: 49 VA 3C16465C: 88 VA
Maximum Power Dissipation	3C16464C: 165 BTU/hr 3C16465C: 300 BTU/hr

REGULATORY NOTICES

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.

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.

CE Statement (Europe)

This product complies with the European Low Voltage Directive 73/23/EEC and ETIC Directive 89/336/EEC as amended by European Directive 93/68/EEC/.

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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BSMI Statement

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。

TECHNICAL SUPPORT

The following options are available for technical support:

- In the first instance contact your Network Supplier.
- Check the 3Com knowledgebase at
<http://knowledgebase.3com.com>
- Browse the 3Com web site on <http://www.3com.com>

Please have your product model name, part number, hardware revision number and serial number along with all relevant details of the problem to hand before calling your Network Supplier or 3Com on the numbers below.

Country	Telephone Number	Country	Telephone Number	Country	Telephone Number
Asia, Pacific Rim				Latin America	
Australia	1 800 678 515	P.R. of China	10800 61 00137 or 021 6350 1590 or 00800 0638 1590	Brazil	0800 13 3266
Hong Kong	800 933 486			Mexico	01 800 849CARE
India	+61 2 9937 5085 or 000800 6501111	Singapore	800 6161 463	Puerto Rico	800 666 5065
Indonesia	001 800 61 009	S. Korea	00798 611 2230 or 02 3455 6455	Central and South America	AT&T +800 998 2112
Japan	03 5783 1270	Taiwan, R.O.C.	0080 611 261		
Malaysia	1800 801 777	Thailand	001 800 611 2000		
New Zealand	0800 446 398				
Pakistan	+61 2 9937 5083				
Philippines	1235 61 266 2602				
<hr/>					
Europe, Middle East and Africa					
From anywhere in these regions, call:	+44 (0) 1442 435529 phone +44 (0) 1442 436772 fax				
<hr/>					
Europe and South Africa From the following countries, you may use the following toll-free numbers:					
Austria	0800 297468	Ireland	1800 553117	Portugal	0800 831416
Belgium	0800 71429	Israel	1800 9453794	South Africa	0800 995014
Denmark	800 17309	Italy	800 8 79489	Spain	900 983125
Finland	0800 113153	Luxembourg	0800 3625	Sweden	020 795482
France	0800 917959	Netherlands	0800 0227788	Switzerland	0800 55 3072
Germany	0800 1821502	Norway	800 11376	U.K.	0800 966197
Hungary	06800 12813	Poland	00800 3111206		
<hr/>					
North America					
	1 800 NET 3Com (1 800 638 3266)				
	Enterprise Customers: 1 800 876 3266				

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ENVIRONMENTAL STATEMENTS

General Environmental Statement

It is the policy of 3Com Corporation to be environmentally-friendly in all operations. To uphold our policy, we are committed to:

- Establishing environmental performance standards that comply with national legislation and regulations
- Conserving energy, materials and natural resources in all operations
- Reducing the waste generated by all operations
- Ensuring that all waste conforms to recognized environmental standards
- Maximizing the recyclable and reusable content of all products
- Ensuring that all products can be recycled, reused and disposed of safely
- Ensuring that all products are labelled according to recognized environmental standards
- Improving our environmental record on a continual basis

Product Registration

You can now register your SuperStack 3 Baseline 10/100/1000 Switch on the 3Com web site:

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End Of Life Statement

3Com processes allow for the recovery, reclamation and safe disposal of all end-of-life electronic components.

Regulated Materials Statement

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