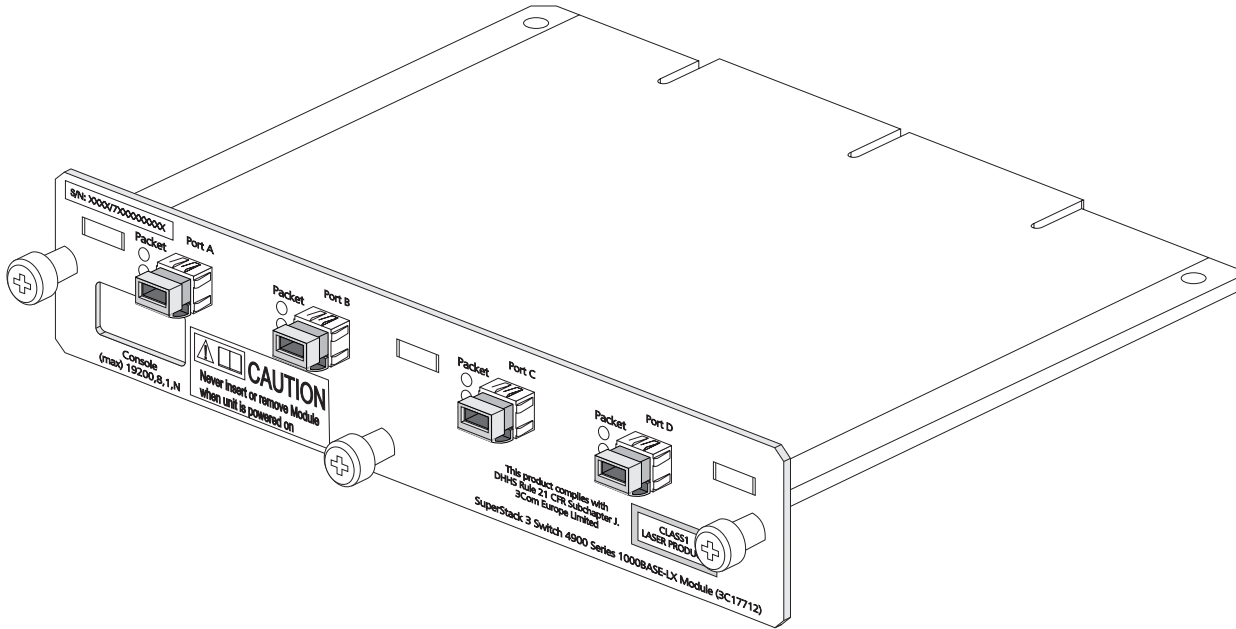


# SuperStack® 3 Switch 4900 Series 1000BASE-LX Module (3C17712) User Guide

DUA1771-2AAA01



## INTRODUCTION

The 1000BASE-LX Module (3C17712) provides your SuperStack® 3 Switch 4900 series with four Gigabit Ethernet fiber optic ports, each operating at full wire speed and set to full duplex. This allows you to provide connectivity between the Switch and remote workgroups or to create a high capacity aggregated link backbone connection.





*The module requires management software version 1.2 or later to be installed on the Switch. For instructions on upgrading management software, refer to the documentation supplied with your Switch.*


The Module conforms to the full duplex implementation of the Gigabit Ethernet standard, IEEE 802.3z. Each port provides a 1000 Mbps connections to another 1000BASE-LX device. Each port uses 62.5  $\mu\text{m}$  or 50  $\mu\text{m}$  multimode or 8-10  $\mu\text{m}$  single mode fiber optic cable with MT-RJ duplex connectors and supports the segment lengths specified in IEEE 802.3z, as shown below:


Fiber Size	Fiber Bandwidth at 1300 nm	Segment Lengths Supported
62.5 $\mu\text{m}$	500 MHz*km	2-550 m (7-1805 ft)
50 $\mu\text{m}$	400 MHz*km	2-550 m (7-1805 ft)
	500 MHz*km	2-550 m (7-1805 ft)
8-10 $\mu\text{m}$	N/A	IEEE minimum: 2 m-5 km (7-16405 ft) 3Com qualification: 2 m-10 km (7-32810 ft)


# INSTALLATION AND REMOVAL


 **WARNING:** Installation and removal of the Module must be carried out by qualified personnel only. Before installing the Module into a unit, you must first disconnect the unit from the mains power supply. For full safety instructions, refer to the user guide that accompanies the unit.

 **AVERTISSEMENT:** Confiez l'installation et la dépose de ce Module à un personnel qualifié. Avant d'installer ce Module dans un groupe, vous devez au préalable débrancher ce groupe de l'alimentation secteur. Pour prendre connaissance des consignes complètes de sécurité, consultez le guide utilisateur qui accompagne ce groupe.

 **ACHTUNG:** Die Installation und der Ausbau des Moduls darf nur durch Fachpersonal erfolgen. Vor dem Installieren des Moduls in einem Gerät muß zuerst der Netzstecker des Geräts abgezogen werden. Vollständige Sicherheitsanweisungen sind dem Benutzerhandbuch des Geräts zu entnehmen.

 **WARNING:** When the Module is inserted into the switch, the three captive thumbscrews securing the Module must be tightened with a suitable tool. Keep the blanking plate and the fixings in a safe place. If you remove the Module at any time, you must then replace the blanking plate.


 **AVERTISSEMENT:** Quand le Module est introduit dans le commutateur, il faut visser les trois vis moletées imperdables, qui bloquent le Module, avec un outil adapté. Conservez la plaque d'obturation et les fixations en lieu sûr. Si vous retirez le Module à tout instant, vous devez alors replacer la plaque d'obturation.


 **ACHTUNG:** Beim Einsetzen des Moduls in dem Switch sind die drei unverlierbaren Flügelschrauben mit einem passenden Werkzeug festzuziehen. Die Distanzplatte und die Befestigungselemente an einem sicheren Ort aufbewahren. Beim Austausch des Moduls ist auch die Distanzplatte zu ersetzen.

 **WARNING:** Fiber Optic ports - Optical Safety




Never look at the transmit laser while it is powered-up. Never look directly at the fiber TX port and fiber cable ends when they are powered-up.

 **WARNING:** Use of controls or adjustments of performance or procedures other than those specified herein may result in hazardous laser emissions.

 **AVERTISSEMENT:** Ports pour fibres optiques – sécurité sur le plan optique




Ne regardez jamais le laser tant qu'il est sous tension. Ne regardez jamais directement le port TX (Transmission) à fibres optiques et les embouts de câbles à fibres optiques tant qu'ils sont sous tension.

 **AVERTISSEMENT:** L'utilisation de contrôles, de réglages de performances ou de procédures autres que ceux qui sont spécifiés au sein du présent document risquent d'entraîner l'exposition à des rayonnements laser dangereux.

 **ACHTUNG:** Faseroptikanschlüsse – Optische Sicherheit



Niemals ein Übertragungslaser betrachten, während dieses eingeschaltet ist. Niemals direkt auf den Faser-TX-Anschluß und auf die Faserkabelenden schauen, während diese eingeschaltet sind.

 **ACHTUNG:** Die Verwendung von Steuerelementen oder die Anpassung von Leistungen und Verfahren in anderer als der hierin genannten Weise kann zu gefährlichen Laseremissionen führen.


## Handling the Module


The Module can be easily damaged by electrostatic discharge. To prevent damage, observe the following:

- Do not remove the Module from its packaging until you are ready to install it into a Switch.
- Do not touch any of the pins, connections or components on the Module.
- Handle the Module only by its edges and front panel.
- Always wear an anti-static wristband connected to a suitable earth point.
- Always store or transport the Module in anti-static packaging.

# INSTALLATION AND REMOVAL

## Installing the Module into a Switch

 **CAUTION:** This Module is not hot-insertable or hot-swappable. Always make sure that the Switch is powered down and disconnected from the mains before installing or removing a Module. Use the following instructions when installing or removing a Module.

 **CAUTION:** This Module is only designed to work with the 3Com SuperStack 3 Switch 4900 series.

To install the Module:

- 1 Ensure that the Switch is disconnected from the mains power supply and that you are wearing an anti-static wristband connected to a suitable earth point.
- 2 Place the Switch on a flat surface. Using a suitable screwdriver, remove the blanking plate from the rear of the Switch. Do not remove any other screws from the rear of the Switch.
- 3 Keep the blanking plate and screws in a safe place. If you remove the Module at any time, you must replace the blanking plate to prevent dust and debris entering the Switch and to aid the circulation of cooling air.
- 4 Hold the Module so that the text on the front panel is upright, and insert it into the Switch, ensuring the back panel is flush against the back of the Switch. Tighten the three captive thumbscrews securing the Module with a suitable tool.
- 5 To activate the Module:
  - a Ensure that the Switch is powered-up.
  - b Remove the protective stopper from the MT-RJ fiber socket on the Module. Squeeze the top and bottom of the stopper between your thumb and forefinger then remove it.
  - c Plug the MT-RJ connector on the fiber cable into the fiber port on the Module.
  - d Connect the other end of the fiber optic cable to a device fitted with a 1000BASE-LX Gigabit Ethernet connection.
- 6 Check the LEDs on the front of the Switch and the rear of the Module to ensure that the Module is operating correctly. Refer to "LEDs" below for more information.

## Removing the Module from a Switch

- 1 Ensure that the power supply and the fiber backbone connection cables are disconnected from the Switch.
- 2 Place the Switch on a flat surface. Undo the three captive thumbscrews securing the Module into the Switch. Do not remove any other screws from the Switch.
- 3 If you are not fitting another Module immediately, replace the blanking plate to ensure that dust and debris

do not enter the Switch and to aid the circulation of cooling air.

## LEDs

You can gather information about the status of the Module and its packet activity using the Expansion Module LEDs on the front of the Switch and the Port LEDs on the rear of the Module.

### Expansion Module Activity LED (Switch)

Status	Color	Meaning
On	Amber	Packets are being transmitted or received on the Module.
Off	No color	There are no packets being transmitted or received on the Module.

### Expansion Module Status LED (Switch)

Status	Color	Meaning
On	Green	N/A (cannot report status of all ports together).
Off	No color	The Module is not installed.
Flashing	Amber	The Module is installed but is not recognised (faulty or unsupported).
On	Amber	The Module is installed.

### Port Activity LED (Module)

Status	Color	Meaning
On	Amber	Packets are being transmitted or received on this port.
Off	No color	There are no packets being transmitted or received on this port.

### Port Status LED (Module)

Status	Color	Meaning
On	Green	A link is present and the port is enabled.
Off	No color	There is no link present.
Flashing	Green	A link is present and the port is disabled.

# MANAGING THE MODULE

When the Module is installed you can configure it through your Switch. Refer to the SuperStack 3 Switch Implementation Guide and the Management Interface Reference Guide supplied with your Switch for more information.

## MODULE RESTRICTIONS

When using the Module, note the following:

- The ports only operate at 1000 Mbps.
- The ports only operate in full duplex mode.
- The Module is not hot-insertable.
- The Module is not hot-swappable.

## PROBLEM SOLVING

If you suspect a problem, carry out these steps *before* contacting your supplier:

- Ensure that the Module is correctly installed in the Switch and that the three captive thumbscrews which secure the Module are tightened with a suitable tool.
- Ensure that the Switch in which the Module is fitted is powered-up.
- Ensure that the device at the far end of the link is powered-up and operating correctly.
- Check that all connectors on the fiber optic segment are correctly engaged.
- Clean the terminators by wiping them gently with a clean tissue or cotton bud moistened with a little ethanol. Dirty fiber terminators on the fiber optic segment impair the quality of the light transmitted through the cable.

For information about technical support, refer to "Technical Support" on page 7.

## TECHNICAL SPECIFICATIONS

The SuperStack 3 Switch 4900 Series 1000BASE-LX Module has been designed to the following standards:

<b>Functional</b>	ISO 8802-3, IEEE 802.3, IEEE 802.3x, IEEE 802.3z, IEEE 802.1D, IEEE 802.1Q
<b>Safety</b>	UL 1950, EN 60950, CSA 22.2#950, IEC 60950, IEC 825-1, EN 60825-1
<b>EMC</b>	CISPR 22 Class A, EN55022 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
<b>Immunity</b>	EN 55024

### Environmental

<b>Operating Temperature</b>	0–40°C (32–104°F)
<b>Storage Temperature</b>	-10 to +70°C (14–158°F)
<b>Operating Humidity</b>	10–95% (relative humidity, non-condensing)
<b>Power Consumption</b>	35 W (watts) maximum
<b>Standards</b>	EN60068 (IEC68)—various parts

### Physical

<b>Width</b>	244 mm (9.61 in.)
<b>Depth</b>	150 mm (5.91 in.)
<b>Height</b>	46 mm (1.81 in.) or 1U
<b>Weight</b>	0.37 kg (0.82 lb)

# 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.

## 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.

## CE Statement (Europe)

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

## VCCI Statement

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## BSMI Statement

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This warranty applies to customers located in the United States, Australia, Canada (except Quebec), Ireland, New Zealand, U.K., and other English language countries, and countries for which a translation into the local language is not provided

## SuperStack 3 Switch 4900 Series 100BASE-LX Module (3C17712)

### Hardware

3Com warrants to the end user ("Customer") that this hardware product will be free from defects in workmanship and materials, under normal use and service, for the following length of time from the date of purchase from 3Com or its authorized reseller:

Lifetime, for as long as the original Customer owns the product (not transferable to a subsequent end user)

3Com's sole obligation under this express warranty shall be, at 3Com's option and expense, to repair the defective product or part, deliver to Customer an equivalent product or part to replace the defective item, or if neither of the two foregoing options is reasonably available, 3Com may, in its sole discretion, refund to Customer the purchase price paid for the defective product. All products that are replaced will become the property of 3Com. Replacement products or parts may be new or reconditioned. 3Com warrants any replaced or repaired product or part for ninety (90) days from shipment, or the remainder of the initial warranty period, whichever is longer.

### Software

3Com warrants to Customer that each software program licensed from it, except as noted below, will perform in substantial conformance to its program specifications, 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, unless specifically included in the Included Services section. 3Com's sole obligation under this express warranty shall be, at 3Com's option and expense, to refund the purchase price paid by Customer for any defective software product, or to replace any defective media with software which substantially conforms to applicable 3Com 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 meet Customer's requirements or 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 or from use of the software product not in accordance with 3Com's published specifications or user manual.

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### Obtaining Warranty Service

Customer must contact a 3Com Corporate Service Center or an Authorized 3Com Service Center within the applicable warranty period to obtain warranty service authorization. Dated proof of purchase from 3Com or its authorized reseller may be required. Products returned to 3Com's Corporate Service Center must be pre-authorized by 3Com with a User Service Order (USO) number (or a Return Material Authorization (RMA) number or a Service Repair Order (SRO) number, whichever was issued) marked on the outside of the package, and sent prepaid and packaged appropriately for safe shipment, and it is recommended that they be insured or sent by a method that provides for tracking of the package. Responsibility for loss or damage does not transfer to 3Com until the returned item is received by 3Com.

The repaired or replaced item will be shipped to Customer, at 3Com's expense, not later than thirty (30) days after 3Com receives the defective product, and 3Com will retain risk of loss or damage until the item is delivered to Customer.

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.

**Dead- or Defective-on-Arrival.** In the event a product completely fails to function or exhibits a defect in materials or workmanship within the first forty-eight (48) hours of installation but no later than thirty (30) days after the date of purchase, and this is verified by 3Com, it will be considered dead- or defective-on-arrival (DOA) and a replacement shall be provided prior to 3Com receiving the defective product, but only if Customer provides a purchase order number, credit card number, or other method of payment acceptable to 3Com, to be used if 3Com needs to charge Customer for the replacement, as explained below. The replacement product will normally be shipped not later than three (3) business days after 3Com's verification of the DOA product, but may be delayed due to export or import procedures. The shipment of a replacement product prior to 3Com receiving the defective product is subject to local legal requirements and may not be available in all locations. When such a replacement is provided and Customer fails to return the original product to 3Com within fifteen (15) days after shipment of the replacement, 3Com will charge Customer for the replacement product, at list price.

**Shipment of a Replacement Prior to 3Com Receiving the Defective Product** is provided for five (5) years, after which time it may be available for a specified fee, but in either case only if Customer provides a purchase order number, credit card number, or other method of payment acceptable to 3Com, to be used if 3Com needs to charge Customer for the replacement, as explained below. 3Com will make commercially reasonable efforts to ship the replacement product not later than five (5) business days after receiving the request for a replacement, but may be delayed due to product availability or export or import procedures. The shipment of a replacement product prior to 3Com receiving the defective product is subject to local legal requirements and may not be available in all locations. When such a replacement is provided and Customer fails to return the original product to 3Com within fifteen (15) days after shipment of the replacement, 3Com will charge Customer for the replacement, at list price. This replacement prior to 3Com receiving the defective product is different from the fee-based Advance Hardware Replacement Service, which is available as a contracted service offering.

### Included Services

**3Com's Electronic Support Services**, available at no charge, include 3Com Knowledgebase, information on known bugs, documentation, release notes, and publicly available software and firmware upgrades. 3Com reserves the right to modify or cancel this offering at any time, without advance notice.

**Telephone Technical Support**, with coverage for basic troubleshooting only, will be provided at no additional charge for 12 months from the date of purchase, on a commercially reasonable efforts basis. Telephone support is provided by 3Com only if Customer purchased this product directly from 3Com, or if Customer's reseller is unable to provide telephone support. To qualify for this telephone technical support, Customer must register on the 3Com Web site at <http://support.3Com.com/index.htm>, and state the date of purchase, product number, and serial number. 3Com's response to a request for telephone technical support will be in the form of a return call from a 3Com representative by close of business the following business day, defined as 9 a.m. to 5 p.m., local time, Monday through Friday, excluding local holidays. Please refer to the Technical Support appendix in the User Guide for telephone numbers.

**Software Updates**. All software and firmware upgrades and the latest code for this product downloaded through the 3Com Software Library.

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This Limited Warranty shall be governed by the laws of the State of California, U.S.A., and by the laws of the United States, excluding their conflicts of laws principles. The United Nations Convention on Contracts for the International Sale of Goods is hereby excluded in its entirety from application to this Limited Warranty.

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3Com reserves the right to modify or cancel this offering at any time, without advance notice. This offering is not available where prohibited or restricted by law.

# 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
<b>Asia, Pacific Rim</b>			
Australia	1 800 678 515	P.R. of China	10800 61 00137 or 021 6350 1590 or 00800 0638 3266
Hong Kong	800 933 486		
India	+61 2 9937 5085 or 000800 6501111	Singapore	800 6161 463
Indonesia	001 800 61 009	S. Korea	00798 611 2230 or 02 3455 6455
Japan	03 5783 1270		
Malaysia	1800 801 777	Taiwan, R.O.C.	0798 611 2230
New Zealand	0800 446 398	Thailand	0080 611 261 or 001 800 611 2000
Pakistan	+61 2 9937 5083		
Philippines	1235 61 266 2602		
<b>Europe</b>			
From anywhere in Europe, call: +44 (0)1442 435529 phone +44 (0)1442 436772 fax			
<b>Europe, South Africa, and Middle East</b>			
From the following countries, you may use the toll-free numbers:			
Austria	0800 297468	Luxembourg	0800 3625
Belgium	0800 71429	Netherlands	0800 0227788
Denmark	800 17309	Norway	800 11376
Finland	0800 113153	Poland	00800 3111206
France	0800 917959	Portugal	0800 831416
Germany	0800 1821502	South Africa	0800 995014
Hungary	06800 12813	Spain	900 983125
Ireland	1800 553117	Sweden	020 795482
Israel	1800 9453794	Switzerland	0800 55 3072
Italy	800 8 79489	U.K.	0800 966197
<b>Latin America</b>			
Brazil	0800 13 3266	Puerto Rico	800 666 5065
Mexico	01 800 CARE	Central and South America	AT&T +800 998 2112
<b>North America</b>			
	1 800 NET 3Com (1 800 638 3266)		
	Enterprise Customers: 1 800 876-3266		

# 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

## End Of Life Statement

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

## Regulated Materials Statement

3Com products do not contain any hazardous or ozone-depleting material.

## Environmental Statement about the Documentation

The documentation for this product is printed on paper that comes from sustainable, managed forests; it is fully biodegradable and recyclable, and is completely chlorine-free. The varnish is environmentally-friendly, and the inks are vegetable-based with a low heavy-metal content.

## Environmental Statement about the Product Packaging

The packaging for this product is fully recyclable. It has a recycled (post consumer) waste content of at least 40% by weight, and no heavy-metal content.

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The SuperStack 3 Switch 4900 Series 1000BASE-LX Module is part of the extensive SuperStack 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.

## Product Registration

You can now register your 1000BASE-LX Module on the 3Com web site to receive up-to-date information on your product:

<http://support.3com.com/registration/frontpg.pl>

## Documentation Feedback

Your suggestions are very important to us. They will help make our documentation more useful to you. Please e-mail comments about this document to 3Com at:

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