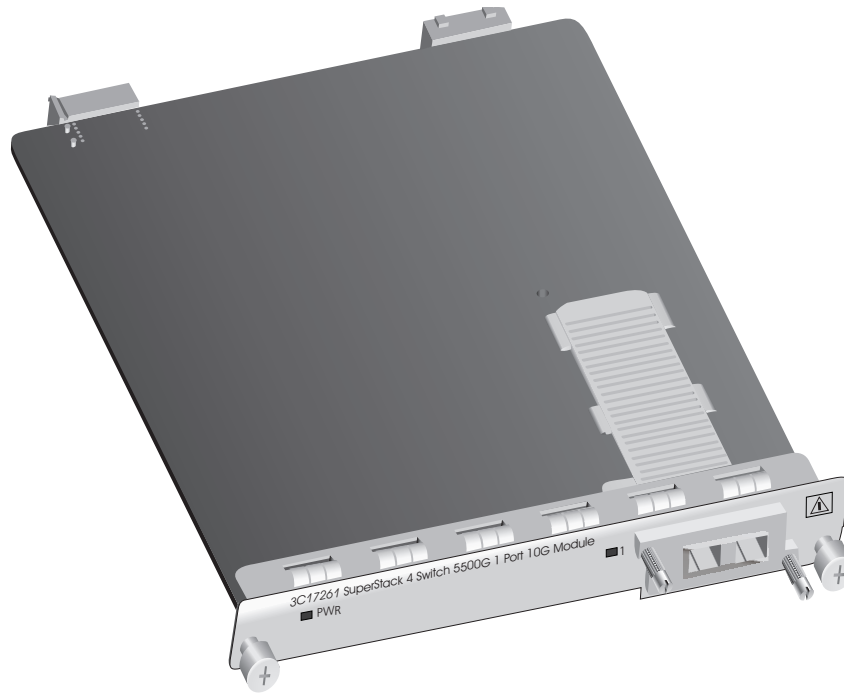


# 3Com® SuperStack 4 Switch 5500G 1-Port 10 Gigabit Module (3C17261) User Guide


DUA1726-1AAA01



## INTRODUCTION

The 10 Gigabit Module (3C17261) provides your 3Com SuperStack 4 Switch 5500G-EI Family unit with one 10 Gigabit Ethernet port. The Module conforms to the 10 Gigabit Ethernet standard, IEEE 802.3ae, when it is fitted with an approved XENPAK transceiver. The Module only operates at 10 Gbps in full duplex mode.

The Module supports pluggable XENPAK transceivers. This allows you to provide 10 Gigabit/sec connectivity between a Switch 5500G-EI Family unit and another switch using the 10 Gigabit Ethernet standard.

 *3Com recommends that you only use XENPAK transceivers supplied by 3Com. If the transceiver is not a supported media type, it will not be recognised by the Switch.*

Auto-negotiation is not supported in the 10 Gigabit Ethernet standard, IEEE 802.3ae. The flow control setting must be manually configured. Flow control is disabled by default.

### LEDs

You can gather information about the status of the Module using the Module LEDs on the front of the Switch and the Port LED on the Module.

LEDs	Color	Indicates
<b>Module LED</b>		
Port 'Status'	Green	1000Mbps link is present and enabled.
	Green flashing (irregular)	On for 30ms for every packet in full duplex.
	Yellow flashing	The port has failed POST.
	Off	No link is present.
Power/Self Test	Green	The module has passed POST and is operating normally.
	Green flashing	Self Test (POST) or Software Download is in progress.
	Red	The module is faulty.
	Off	The module has a power fault.
<b>Front Panel LED</b>		
	Green	The Module is installed and supported.
	Yellow flashing	The Module is installed but not supported or has failed POST.
	Off	The Module is not installed.

# SAFETY PRECAUTIONS

Be sure you follow all safety precautions when you install or replace the Module or an XENPAK Transceiver. To avoid electric shocks and burns to yourself and damage to the equipment, read and follow these warnings:



**WARNING:** When the system is on:

- Never insert a metal object such as a screwdriver or a finger with jewelry into open module slots.
- Do not touch any connections inside the chassis with your hands or fingers.



**AVERTISSEMENT:** Quand le système est allumé:

- Ne jamais introduire d'objet métallique, tel qu'un tournevis ou même votre doigt si vous portez un bijou dans le logement du module.
- Ne touchez aucun engrenage à l'intérieur du châssis avec le doigt ou la main.



**VORSICHT:** Wenn das Betriebssystem angeschaltet ist:

- Führen Sie niemals einen Metallgegenstand wie z.B. einen Schraubenzieher oder einen beringten Finger in den offenen Modulschlitz ein.
- Berühren Sie keine Verbindungen innerhalb des Gehäuses mit Ihren Händen oder Fingern.



**ADVERTENCIA:** Cuando el sistema esté encendido:

- No introduzca ningún objeto metálico, como un destornillador, ni un dedo donde lleve un anillo, en la ranura del módulo.
- No toque ninguna conexión del interior del chasis con las manos ni con los dedos.



**AVVERTENZA:** Quando il sistema è acceso:

- Non inserire oggetti metallici come cacciaviti o dita con gioielli negli slot dei moduli aperti.
- Non toccare con le mani o le dita le connessioni all'interno del telaio.



**OSTRZEŻENIE:** Gdy system jest włączony: Nie wolno wkładać metalowych przedmiotów, na przykład śrubokręta lub palca z pierścionkami, do otwartych gniazd modułu. \* Nie wolno dotykać rękoma żadnych połączeń wewnątrz obudowy.



**WARNING:** Installation and removal of the Module must be carried out by qualified personnel only. 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. Pour prendre connaissance des consignes complètes de sécurité, consultez le guide utilisateur qui accompagne ce groupe.



**VORSICHT:** Die Installation und der Ausbau des Moduls darf nur durch Fachpersonal erfolgen. Vollständige Sicherheitsanweisungen sind dem Benutzerhandbuch des Geräts zu entnehmen.



**ADVERTENCIA:** La instalación y la extracción del módulo sólo debe llevarla a cabo personal cualificado. Para obtener instrucciones de seguridad detalladas,

consulte la guía del usuario que se incluye con la unidad.



**AVVERTENZA:** Le operazioni di installazione e rimozione del modulo devono essere eseguite esclusivamente da personale qualificato. Per informazioni complete sulla sicurezza, consultare la guida per l'utente fornita con l'unità.



**OSTRZEŻENIE:** Instalacja i demontaż modułu mogą być wykonywane tylko przez wykwalifikowany personel. Przepisy bezpieczeństwa znajdują się w podręczniku użytkownika dostarczonym z urządzeniem.



**WARNING:** When an Module is not installed, ensure the blanking plate is fitted to the slot by tightening all screws with a suitable tool. Failure to fit a blanking plate may void the product warranty.



**AVERTISSEMENT:** Si le Bloc d'alimentation n'est pas installé, veillez à bien installer la plaque d'obturation dans son emplacement et serrez toutes les vis à l'aide d'un outil approprié. L'absence ou l'installation défectueuse de la plaque d'obturation peut entraîner l'annulation de la garantie du produit.



**VORSICHT:** Wenn kein Erweiterungsmodul installiert wird, stellen Sie sicher, dass die Blende befestigt ist, indem Sie sämtliche Schrauben mit dem entsprechenden Werkzeug anziehen. Wenn die Blende nicht befestigt ist, erlöschen möglicherweise die Gewährleistungsansprüche für das Produkt.



**ADVERTENCIA:** Si no hay instalado un Expansion Module, asegúrese de que se monta la placa de cegamiento en la ranura apretando todos los tornillos con una herramienta adecuada. Si no se acopla una placa de cegamiento se anularía la garantía.



**AVVERTENZA:** Quando non è installato alcun modulo di espansione, fissare il pannello di copertura nello slot serrando tutte le viti con un cacciavite idoneo. La mancata installazione di un pannello di copertura potrebbe invalidare la garanzia del prodotto.



**OSTRZEŻENIE:** Gdy nie jest zainstalowany zasilacz, należy się upewnić, że panel zaślepiający jest zamontowany poprzez dokręcenie wszystkich śrub za pomocą właściwego narzędzia. Brak panelu zaślepiającego może spowodować unieważnienie gwarancji produktu.



**WARNING:** When the Module is inserted into the switch, the two 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 deux 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.





**VORSICHT:** Beim Einsetzen des Moduls in dem Switch sind die zwei 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.


 **ADVERTENCIA:** Cuando el módulo está insertado en el conmutador, los dos tornillos que fijan el módulo deben apretarse con una herramienta apropiada. Guarde la placa de cegamiento y sus complementos en un lugar seguro. Si extrae el módulo en algún momento, tendrá que volver a colocar después la placa de cegamiento.


 **AVVERTENZA:** Una volta inserito il modulo nello switch, stringere le due viti trattenute utilizzando un cacciavite idoneo. Conservare il pannello di copertura e i pezzi di montaggio in un luogo sicuro. Se il modulo viene rimosso sarà necessario ricollocare il pannello.


 **OSTRZEŻENIE:** Po włożeniu modułu do przełącznika należy dokręcić – używając odpowiedniego narzędzia – dwie śruby mocujące moduł. Płytkę zaślepiającą i łączniki należy przechowywać w bezpiecznym miejscu. W przypadku wyjęcia modułu konieczne jest ponowne założenie płytki zaślepiającej.


 **WARNING:** You must only insert a 3Com approved XENPAK transceiver into the Module. These are listed in the "Approved XENPAK Transceivers" section of this User Guide.


 **AVERTISSEMENT:** Le module accepte exclusivement des émetteurs-récepteurs XENPAK agréés 3Com. La liste de ces types d'émetteur-récepteur figure à la section "Émetteurs-récepteurs agréés XENPAK" du présent guide d'utilisateur.


 **VORSICHT:** Setzen Sie nur von 3Com genehmigte XENPAK-Empfänger in das Modul. Diese finden Sie in dieser Bedienungsanleitung im Abschnitt „Genehmigte XENPAK-Empfänger“ aufgeführt.


 **ADVERTENCIA:** Inserte en el módulo únicamente un transceptor XENPAK aprobado por 3Com. Estos aparecen enumerados en la sección "Transceptores XENPAK aprobados" de esta Guía del usuario


 **AVVERTENZA:** Inserire nel modulo soltanto transceiver XENPAK approvati da 3Com, elencati nella sezione "Transceiver XENPAK approvati" della presente guida per l'utente.


 **OSTRZEŻENIE:** W module należy instalować wyłącznie urządzenia nadawczo-odbiorcze XENPAK zatwierdzone przez firmę 3Com. Lista urządzeń znajduje się w sekcji „Zatwierdzone urządzenia nadawczo-odbiorcze XENPAK” tego podręcznika.


 **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.


 **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.


 **VORSICHT:** 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.


 **ADVERTENCIA:** Puertos de fibra óptica - seguridad óptica. Nunca mire el láser de transmisión a través de una lente de aumento mientras está encendido. No mire nunca directamente al puerto de transmisión de fibra óptica ni a los extremos del cable de fibra óptica mientras estén conectados.


 **AVVERTENZA:** Porte a fibre ottiche - Protezione degli occhi. Non guardare il laser di trasmissione attraverso uno strumento ottico di ingrandimento quando è acceso. Non guardare direttamente la porta TX a fibre ottiche e le estremità del cavo a fibre ottiche quando sono accese.


 **OSTRZEŻENIE:** Porty światłowodowe – bezpieczeństwo. Nie wolno nigdy patrzeć na włączoną diodę laser transmisyjny przez urządzenie wzmacniające. Nie wolno nigdy patrzeć bezpośrednio na port włókna TX i końcówki światłowodów, jeśli są zasilane.


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

 **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.

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

 **ADVERTENCIA:** El uso de controles, ajustes de rendimiento o procedimientos distintos a los especificados en este documento puede producir emisiones de láser peligrosas.

 **AVVERTENZA:** L'esecuzione di procedure o regolazioni non previste dalle istruzioni fornite in questa guida può provocare emissioni laser nocive.

 **OSTRZEŻENIE:** Używanie regulatorów, zmiana ustawień pracy lub procedur innych niż opisane niniejszym dokumencie może spowodować niebezpieczną emisję światła laserowego.

# INSTALLATION AND REMOVAL

## Handling the Module

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

- Always wear an anti-static wristband connected to a suitable earth point.
- 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 store or transport the Module in anti-static packaging.

## Installing the Module



**CAUTION:** This Module is only designed to work with the 3Com SuperStack 4 Switch 5500G-EI Family.

To install the Module:

- 1 Your Switch can be either powered-up or powered-down.
- 2 Ensure that you are wearing an anti-static wristband connected to a suitable earth point.
- 3 Undo the two captive thumbscrews securing the blanking plate at the front of the Switch. Do not remove any other screws from the front of the Switch.
- 4 Remove the blanking plate.
- 5 Keep the blanking plate 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 help the circulation of cooling air.
- 6 Hold the Module so that the text on the front panel is upright. Insert it into the Switch, pushing firmly to ensure the Module is seated correctly so that the front panel is flush with the front of the Switch. Tighten the two captive thumbscrews securing the Module with a suitable tool.
- 7 If necessary, power-up your Switch.

## Activating the Module

There is only one way in which a XENPAK transceiver can be installed correctly into the Module. It is not necessary to power down your Switch.

- 1 Insert one of the following XENPAK transceivers into the port on the Module:
  - **10GBASE-CX4 transceiver**  
Use this transceiver to connect the Module directly to an 8 pair twinaxial copper cable terminated in IEC 61076-3-113 connectors (between 1m and 15m supported).

- **10GBASE-ER transceiver**

Use this transceiver to connect the Module directly to a single-mode fiber-optic cable (up to 40km).

- **10GBASE-LR transceiver**

Use this transceiver to connect the Module directly to a single-mode fiber-optic cable (up to 10km).



*To ensure optimal performance, compatibility, and regulatory compliance, use only XENPAK transceivers that 3Com supports. See "Approved XENPAK Transceivers" on page 5.*

- 2 Hold the XENPAK transceiver so that the text on the transceiver is upside down and the module text is shown upright. Insert the transceiver, inverted, into the module.
- 3 Slide the XENPAK transceiver into the XENPAK port on the module, pushing firmly to ensure it is seated correctly.
- 4 Tighten the two captive thumbscrews securing the XENPAK transceiver with a suitable tool.
- 5 Remove the plastic protective cover if fitted.
- 6 Use an appropriate cable to connect the XENPAK transceiver to a suitable device.
- 7 Check the LEDs on the front of the Switch and the front of the Module to ensure that the Module is operating correctly. Refer to "LEDs" on page 1 for more information.

## Removing the Transceiver

It is not necessary to power-down your Switch.

- 1 Disconnect the cable from the transceiver.
- 2 Pull the sleeve around connector towards you to release the catch mechanism; the transceiver will then easily slide out.

## Removing the Module

It is not necessary to power-down your Switch.

- 1 Ensure that you are wearing an anti-static wristband connected to a suitable earth point.
- 2 Undo the two captive thumbscrews securing the Module into the Switch using a suitable tool. Do not remove any other screws from the Switch.
- 3 Remove the Module.
- 4 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 help the circulation of cooling air.

# APPROVED XENPAK TRANSCEIVERS

The 3Com approved XENPAK transceivers are:

- 10GBASE-CX4 (3CXENPAK95)
- 10GBASE-ER (3CXENPAK96)
- 10GBASE-LR (3CXENPAK92)

To access the latest list of approved XENPAK transceivers for the Module on the 3Com Corporation World Wide Web site, enter this URL into your Internet browser:

<http://www.3com.com/XENPAK>

When the Module is installed you can configure it through your Switch. Refer to the "Configuration Guide" and the "Command Reference Guide" supplied on the CD-ROM that accompanies your Switch for more information.

## MANAGING THE MODULE

### Troubleshooting XENPAK Transceivers

After you insert the XENPAK transceiver into the port, the Switch management software verifies the transceiver operation. If the transceiver is not working properly, the software displays one of the following error messages:

- **Invalid transceiver fitted**

The XENPAK transceiver is invalid and will not be recognised by the Module.

To be recognised as valid, the XENPAK transceiver must conform to the XENPAK MSA.

- **Faulty transceiver fitted**

The XENPAK transceiver is faulty and will not operate within the Module.

To correct these problems, completely remove the transceiver and then reinsert it. If the problem persists, contact 3Com Technical Support.

## 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 two 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.
- Ensure 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.

- If you are using non-3Com XENPAK transceivers, try using a 3Com XENPAK transceiver instead to test if the problem continues.
- Ensure that you are using 24-28 AWG Infiniband copper cabling that is recommended on the 3Com web site (10GBASE-CX4 transceiver only):

<http://www.3com.com/xenpak>

For more general problem solving information, refer to the documentation supplied with your Switch.

For information about technical support, refer to "Obtaining Support For Your Product" on page 6.

## TECHNICAL SPECIFICATIONS

The 3Com SuperStack 4 Switch 5500G 1 Port 10 Gigabit Module has been designed to the following standards:

<b>Functional Safety</b>	IEEE 802.3, IEEE 802.3ab, IEEE 802.3ae, IEEE802.3ak, IEEE 802.1D, IEEE 802.1Q EN60950-1:2001 plus Annexes ZB & ZC, IEC60950-1:2001 + Corr.1:2002 + ALL National Deviations, CAN/CSA-C22.2 No. 60950-1-03, UL60950-1:2003, NOM-019 SCFI, AS/NZS 60950:2000/Amdt 1-2003
<b>EMC Immunity</b>	ICES-003 Class A, FCC Part 15 Class A, EN55022 1998 Class A, VCCI Class A, CISPR 22 Class A, Korean EMI Class A EN 55024
<b>Environmental</b>	
<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>	30 W (watts) maximum
<b>Standards</b>	EN60068 to 3Com schedule (Package testing: paras 2.1, 2.2, 2.30, and 2.32. Operational testing: paras 2.1, 2.2, 2.30 and 2.13).

# 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.

You must only insert a 3Com approved XENPAK transceiver into the Module. These are listed in the "Approved XENPAK Transceivers" section of this User Guide.

## VCCI Statement

この装置は、情報処理装置等電波障害自主規制協議会（VCCI）の基準に基づくクラスA情報技術装置です。この装置を家庭環境で使用すると電波妨害を引き起こすことがあります。この場合には使用者が適切な対策を講ずるよう要求されることがあります。

# OBTAINING SUPPORT FOR YOUR PRODUCT

## Register Your Product to Gain Service Benefits

To take advantage of warranty and other service benefits, you must first register your product at <http://eSupport.3com.com/>. 3Com eSupport services are based on accounts that you create or have authorization to access. First time users must apply for a user name and password that provides access to a number of eSupport features including Product Registration, Repair Services, and Service Request.

## Purchase Value-Added Services

To enhance response times or extend warranty benefits, contact 3Com or your authorized 3Com reseller. Value-added services can include 24x7 telephone technical support, software upgrades, onsite assistance or advance hardware replacement. Experienced engineers are available to manage your installation with minimal disruption to your network. Expert assessment and implementation services are offered to fill resource gaps and ensure the success of your networking projects. More information on 3Com Extended Warranty and Professional Services is available at <http://www.3com.com/>

Contact your authorized 3Com reseller or 3Com for additional product and support information.

## Troubleshoot Online

You will find support tools posted on the 3Com web site at <http://www.3com.com/>

- **3Com Knowledgebase** helps you troubleshoot 3Com products. This query-based interactive tool is

located at <http://knowledgebase.3com.com> and contains thousands of technical solutions written by 3Com support engineers.

- **Connection Assistant** helps you install, configure and troubleshoot 3Com desktop and server NICs, wireless cards and Bluetooth devices. This diagnostic software is located at: [http://www.3com.com/prodforms/software/connection\\_assistant/ca\\_thankyou.html](http://www.3com.com/prodforms/software/connection_assistant/ca_thankyou.html)

## Access Software Downloads

- **Software Updates** are the bug fix / maintenance releases for the version of software initially purchased with the product. In order to access these Software Updates you must first register your product on the 3Com web site at <http://eSupport.3com.com/>. First time users will need to apply for a user name and password. A link to software downloads can be found at <http://eSupport.3com.com/>, or under the Product Support heading at <http://www.3com.com/>
- **Software Upgrades** are the software releases that follow the software version included with your original product. In order to access upgrades and related documentation you must first purchase a service contract from 3Com or your reseller.

## Contact Us

3Com offers telephone, e-mail and internet access to technical support and repair services. To access these services for your region, use the appropriate telephone number, URL or e-mail address from the list below. You will find a current directory of support telephone

numbers posted on the 3Com web site at  
<http://csoweb4.3com.com/contactus/>

- Details about recent configuration changes, if applicable

## Telephone Technical Support and Repair

To obtain telephone support as part of your warranty and other service benefits, you must first register your product at <http://eSupport.3com.com/>

When you contact 3Com for assistance, please have the following information ready:

- Product model name, part number, and serial number
- Proof of purchase, if you have not pre-registered your product
- A list of system hardware and software, including revision level
- Diagnostic error messages

To send a product directly to 3Com for repair, you must first obtain a return authorization number (RMA). Products sent to 3Com, without authorization numbers clearly marked on the outside of the package, will be returned to the sender unopened, at the sender's expense. If your product is registered and under warranty, you can obtain an RMA number online at <http://eSupport.3com.com/>. First time users will need to apply for a user name and password.

Telephone numbers are correct at the time of publication. Find a current directory of support telephone numbers posted on the 3Com web site at <http://csoweb4.3com.com/contactus/>

Country	Telephone Number	Country	Telephone Number
<b>Asia, Pacific Rim Telephone Technical Support and Repair</b>		<b>Europe, Middle East, and Africa Telephone Technical Support and Repair</b>	
Australia	1 800 678 515	From anywhere in these regions, call:	+44 (0)1442 435529
Hong Kong	800 933 486	From the following countries, you may use the numbers shown:	
India	+61 2 9424 5179 or 000800 650 1111	Austria	01 7956 7124
Indonesia	001 803 61009	Belgium	070 700 770
Japan	00531 616 439 or 03 3507 5984	Denmark	7010 7289
Malaysia	1800 801 777	Finland	01080 2783
New Zealand	0800 446 398	France	0825 809 622
Pakistan	+61 2 9937 5083	Germany	01805 404 747
Philippines	1235 61 266 2602 or 1800 1 888 9469	Hungary	06800 12813
P.R. of China	800 810 3033	Ireland	1407 3387
Singapore	800 6161 463	Israel	1800 945 3794
S. Korea	080 333 3308	Italy	199 161346
Taiwan	00801 611 261	Luxembourg	342 0808128
Thailand	001 800 611 2000	Netherlands	0900 777 7737
		Norway	815 33 047
		Poland	00800 441 1357
		Portugal	707 200 123
		South Africa	0800 995 014
		Spain	9 021 60455
		Sweden	07711 14453
		Switzerland	08488 50112
		U.K.	0870 909 3266
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