



TN-GLC-T

## User's Guide

### TN-SFP-GE-x, TN-GLC-xx-xx, TN-CWDM-SFP-1xx0, TN-CWDM-100LX-1xx0 series Cisco compatible Small Form Factor Pluggable (SFP) Transceiver Modules

Transition Networks TN-SFP-GE-x, TN-GLC-xx-xx, TN-CWDM-SFP-1xx0, and TN-CWDM-100LX-1xx0 series small form factor pluggable (SFP) transceiver modules are designed to install in any SFP port. These TN-SFP modules allow a 1000Base-T, 1000Base-SX or LX interface to the network through the SFP connector. TN-SFP transceivers are designed for bi-directional, serial-optical data communications: Gigabit Ethernet or fiber channel at speeds up to 2.125 Gbps.



TN-GLC-SX-MM



TN-CWDM-SFP-1xx0



TN-GLC-BX-x-x0

Part Number	Port Description
<b>TN-GLC-T</b>	1000Base-T, RJ-45 100m (328 ft)*
<b>TN-GLC-SX-MM</b>	1000Base-SX, duplex LC, 850nm, 220 m (722 ft)* on 62.5/125 μm fiber 550 m (1840 ft)* on 50/125 μm fiber
<b>TN-GLC-SX-MM-2K</b>	1000Base-SX, duplex LC 1300nm, extended multimode up to 2 km (1.2 miles)*
<b>TN-GLC-LH-SM</b>	1000Base-LX, 1310nm, single mode 10 km (6.2 miles)*
<b>TN-GLC-LHX-SM</b>	1000Base-LX, 1310nm, single mode 40 km (24.9 miles)*
<b>TN-GLC-BX-U</b>	1000Base-BX, Simplex LC 1310nm Tx/1490nm Rx, single mode, single fiber 10 km (6.2 miles)*

**Note:** The distances listed are the typical maximum cable distances. The actual maximum cable distance is dependent on the physical characteristics of the network installation.

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Part Number	Port Description
<b>TN-GLC-BX-D</b>	1000Base-BX, Simplex LC 1490nm Tx/1310nm Rx, single mode, single fiber 10 km (6.2 miles)*
<b>TN-GLC-BX-U-40</b>	1000Base-BX, Simplex LC 1310nm Tx/1490nm Rx, single mode, single fiber 40 km (24.9 miles)*
<b>TN-GLC-BX-D-40</b>	1000Base-BX, Simplex LC 1490nm Tx/1310nm Rx, single mode, single fiber 40 km (24.9 miles)*
<b>TN-GLC-BX-U-60</b>	1000Base-BX, Simplex LC 1310nm Tx/1490 nm Rx, single mode, single fiber 60 km (37.3 miles)*
<b>TN-GLC-BX-D-60</b>	1000Base-BX, Simplex LC 1490nm Tx/1310nm Rx, single mode, single fiber 60 km (37.3 miles)*
<b>TN-GLC-FE-100BX-U</b>	100Base-BX, Simplex LC 1310nm Tx/1550nm Rx, mode, single fiber 10 km (6.2 miles)*
<b>TN-GLC-FE-100BX-D</b>	100Base-BX, Simplex LC 1550nm Tx/1310nm Rx, single mode, single fiber 10 km (6.2 miles)*
<b>TN-GLC-FE-100-FX</b>	100Base-FX, Duplex LC 1300nm, multimode 2 km (1.2 miles)*
<b>TN-GLC-FE-100-LX</b>	100Base-LX, Duplex LC 1310nm, single mode 10 km (6.2 miles)*
<b>TN-GLC-GE-100-FX</b>	100Base-FX, Duplex LC 1300nm, multimode 2 km (1.2 miles)*
<b>TN-SFP-GE-L</b>	1000Base-LX, duplex LC, 1310nm, single mode with DOM, 10km (6.2 miles)* (**)
<b>TN-SFP-GE-S</b>	1000Base-SX, duplex LC, 850nm, multimode with DOM, 550m (1804ft) on 50/125um fiber, 220m (722ft) on 62.5/125um fiber*
<b>TN-SFP-GE-Z</b>	1000Base-ZX, duplex LC, 1550nm, single mode with DOM, 80km (49.7 miles)*
<b>TN-GLC-ZX-SM</b>	1000Base-LX, 1550nm, single mode 80 km (49.7 miles)*
<b>TN-CWDM-100XL-1270</b>	1000Base-LX, 1270nm, single mode 80 km (49.7 miles)*
<b>TN-CWDM-100XL-1290</b>	1000Base-LX, 1290nm, single mode 80 km (49.7 miles)*
<b>TN-CWDM-100XL-1310</b>	1000Base-LX, 1310nm, single mode 80 km (49.7 miles)*
<b>TN-CWDM-100XL-1330</b>	1000Base-LX, 1330nm, single mode 80 km (49.7 miles)*

\*The distances listed are the typical maximum cable distances. The actual maximum cable distance is dependent on the physical characteristics of the network installation.

\*\*Provide 100Base-FX interface when plugged into a gigabit SFP slot on Cisco catalyst 3750, 3560, and 2970 series switches.

**Note:** Install simplex, single fiber SFP models in pairs in the same network where one is the local device and the other is the remote device.

Part Number	Port Description
<b>TN-CWDM-100XL-1350</b>	1000Base-LX, 1350nm, single mode 80 km (49.7 miles)*
<b>TN-CWDM-100XL-1370</b>	1000Base-LX, 1370nm, single mode 80 km (49.7 miles)*
<b>TN-CWDM-100XL-1390</b>	1000Base-LX, 1270nm, single mode 80 km (49.7 miles)*
<b>TN-CWDM-100XL-1410</b>	1000Base-LX, 1410nm, single mode 80 km (49.7 miles)*
<b>TN-CWDM-100XL-1430</b>	1000Base-LX, 1430nm, single mode 80 km (49.7 miles)*
<b>TN-CWDM-100XL-1450</b>	1000Base-LX, 1450nm, single mode 80 km (49.7 miles)*
<b>TN-CWDM-100XL-1470</b>	1000Base-LX, 1470nm, single mode 80 km (49.7 miles)*
<b>TN-CWDM-100XL-1490</b>	1000Base-LX, 1490nm, single mode 80 km (49.7 miles)*
<b>TN-CWDM-100XL-1510</b>	1000Base-LX, 1510nm, single mode 80 km (49.7 miles)*
<b>TN-CWDM-100XL-1530</b>	1000Base-LX, 1530nm, single mode 80 km (49.7 miles)*
<b>TN-CWDM-100XL-1550</b>	1000Base-LX, 1550nm, single mode 80 km (49.7 miles)*
<b>TN-CWDM-100XL-1570</b>	1000Base-LX, 1570nm, single mode 80 km (49.7 miles)*
<b>TN-CWDM-100XL-1590</b>	1000Base-LX, 1590nm, single mode 80 km (49.7 miles)*
<b>TN-CWDM-100XL-1610</b>	1000Base-LX, 1610nm, single mode 80 km (49.7 miles)*
<b>TN-CWDM-SFP-1270</b>	1000Base-LX, 1270nm, single mode 80 km (49.7 miles)*
<b>TN-CWDM-SFP-1290</b>	1000Base-LX, 1290nm, single mode 80 km (49.7 miles)*
<b>TN-CWDM-SFP-1310</b>	1000Base-LX, 1310nm, single mode 80 km (49.7 miles)*
<b>TN-CWDM-SFP-1330</b>	1000Base-LX, 1330nm, single mode 80 km (49.7 miles)*
<b>TN-CWDM-SFP-1350</b>	1000Base-LX, 1350nm, single mode 80 km (49.7 miles)*
<b>TN-CWDM-SFP-1370</b>	1000Base-LX, 1370nm, single mode 80 km (49.7 miles)*

\*The distances listed are the typical maximum cable distance. The actual maximum cable distance is dependent on the physical characteristics of the network installation.

Part Number	Port Description
<b>TN-CWDM-SFP-1390</b>	1000Base-LX, 1270nm, single mode 80 km (49.7 miles)*
<b>TN-CWDM-SFP-1410</b>	1000Base-LX, 1410nm, single mode 80 km (49.7 miles)*
<b>TN-CWDM-SFP-1430</b>	1000Base-LX, 1430nm, single mode 80 km (49.7 miles)*
<b>TN-CWDM-SFP-1450</b>	1000Base-LX, 1450nm, single mode 80 km (49.7 miles)*
<b>TN-CWDM-SFP-1470</b>	1000Base-LX, 1470nm, single mode 80 km (49.7 miles)*
<b>TN-CWDM-SFP-1490</b>	1000Base-LX, 1490nm, single mode 80 km (49.7 miles)*
<b>TN-CWDM-SFP-1510</b>	1000Base-LX, 1510nm, single mode 80 km (49.7 miles)*
<b>TN-CWDM-SFP-1530</b>	1000Base-LX, 1530nm, single mode 80 km (49.7 miles)*
<b>TN-CWDM-SFP-1550</b>	1000Base-LX, 1550nm, single mode 80 km (49.7 miles)*
<b>TN-CWDM-SFP-1570</b>	1000Base-LX, 1570nm, single mode 80 km (49.7 miles)*
<b>TN-CWDM-SFP-1590</b>	1000Base-LX, 1590nm, single mode 80 km (49.7 miles)*
<b>TN-CWDM-SFP-1610</b>	1000Base-LX, 1610nm, single mode 80 km (49.7 miles)*

**xx = center wavelength ( $\lambda_c$ )** (See technical specifications for more details.)

27 = 1270nm	39 = 1390nm	53 = 1530nm
29 = 1290nm	41 = 1410nm	55 = 1550nm
31 = 1310nm	43 = 1430nm	57 = 1570nm
33 = 1330nm	47 = 1470nm	59 = 1590nm
35 = 1350nm	49 = 1490nm	61 = 1610nm
37 = 1370nm	51 = 1510nm	

**Note:** All Transition Networks' SFP modules fully comply with the Multi-Sourcing Agreement (MSA). This compliance allows our SFP modules to be used in other MSA compliant SFP platforms. In addition, the SFP modules referenced in this manual ( *TN-SFP-GE-x*, *TN-GLC-xx-xx*, *TN-CWDM-SFP-1xx0*, *TN-CWDM-XL100-1xx0*) are also compatible with all Cisco SFP-based equipment supporting similar Cisco model SFPs, as well as its IOS software and SMARTnet. TN SFP modules ARE NOT Cisco OEM brand modules.

\*The distances listed are the typical maximum cable distance. The actual maximum cable distance is dependent on the physical characteristics of the network installation.

## Installation

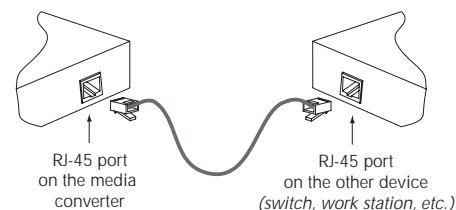
### Installing the SFP transceiver

To install the SFP module into a network switch or media converter, do the following:

1. Position the module at the installation slot with the label side facing up.
2. Carefully slide the module into the installation slot, aligning it with the internal installation guides.

### Installing copper cables

1. Locate a compliant copper cables with male RJ-45 connectors installed at both ends.
2. Connect the RJ-45 connector at one end of the cable to the RJ-45 port on the media converter.
3. Connect the RJ-45 connector at the other end of the cable to the RJ-45 port on the other device.



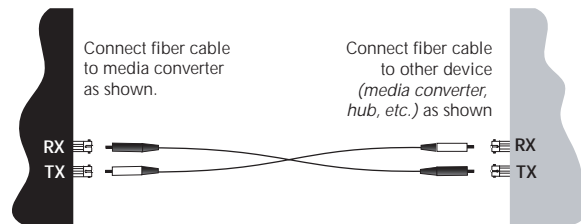
## Installation — continued

### Installing copper cables

1. Locate a 1000Base-T compliant copper cable with male RJ-45 connectors installed at both ends.
2. Connect the RJ-45 connector at one end of the cable to the RJ-45 port on the media converter.
3. Connect the RJ-45 connector at the other end of the cable to the RJ-45 port on the other device.

### Installing the fiber cables

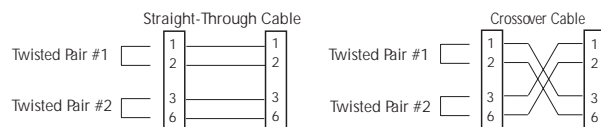
1. Locate a 100/1000Base-SX or 100/1000Base-LX compliant fiber cable with male TX to RX connectors installed at both ends.
2. Install the fiber cable as shown below.



## Cable Specification

### Copper cable (Category 5 – minimum requirement)

- Gauge = 24 to 22 AWG; Attenuation = 22.0 dB /100m @ 100 MHz
- Straight-through or crossover cable may be used.
- Shielded twisted-pair (STP) or unshielded twisted-pair (UTP) may be used
- All pin pairs (1&2, 3&6, 4&5, 7&8) are active in a gigabit network.
- Use only dedicated wire pairs for the active pins; e.g., blue/white and white/blue, orange/white and white/orange, etc.
- Do not use flat or silver satin wire.



## Fiber cable

The physical characteristics must meet or exceed IEEE 802.3z™ specifications.

Single mode fiber ( <i>recommended</i> ):	9 μm
Multimode fiber ( <i>recommended</i> ):	62.5/125 μm
Multimode fiber ( <i>optional</i> ):	100/140, 85/140, 50/125 μm

TN-GLC-SX-MM	850 nm multimode
Fiber Optic Transmitter Power:	min: -9.5 dBm      max: -3.5 dBm
Fiber Optic Receiver Sensitivity:	min: -18.0 dBm    max: -1.0 dBm
Link Budget:	8.5 dB

TN-GLC-SX-MM-2K	1300 nm multimode
Fiber Optic Transmitter Power:	min: -9.0 dBm      max: -1.0 dBm
Fiber Optic Receiver Sensitivity:	min: -19.0 dBm    max: -1.0 dBm
Link Budget:	18 dB

TN-GLC-LH-SM	1310 nm single mode
Fiber Optic Transmitter Power:	min: -9.5 dBm      max: -3.0 dBm
Fiber Optic Receiver Sensitivity:	min: -20.0 dBm    max: -3.0 dBm
Link Budget:	10.5 dB

TN-GLC-LHX-SM	1310 nm single mode
Fiber Optic Transmitter Power:	min: -3.0 dBm      max: -2.0 dBm
Fiber Optic Receiver Sensitivity:	min: -25.0 dBm    max: -3.0 dBm
Link Budget:	22 dB

TN-GLC-BX-U	1310 nm Tx/1490 nm Rx single mode
TN-GLC-BX-D	1490 nm Tx/1310 nm Rx single mode
Fiber Optic Transmitter Power:	min: -9.0 dBm      max: -1.0 dBm
Fiber Optic Receiver Sensitivity:	min: -21.0 dBm    max: -1.0 dBm
Link Budget:	12 dB

TN-GLC-BX-U-40	1310 nm Tx/1490 nm Rx single mode
TN-GLC-BX-D-40	1490 nm Tx/1310 nm Rx single mode
Fiber Optic Transmitter Power:	min: -3.0 dBm      max: 2.0 dBm
Fiber Optic Receiver Sensitivity:	min: -23.0 dBm    max: -1.0 dBm
Link Budget:	20 dB

TN-GLC-BX-U-60	1310 nm Tx/1490 nm Rx single mode
TN-GLC-BX-D-60	1490 nm Tx/1310 nm Rx single mode
Fiber Optic Transmitter Power:	min: -2.0 dBm      max: 4.0 dBm
Fiber Optic Receiver Sensitivity:	min: -25.0 dBm    max: -1.0 dBm
Link Budget:	23 dB

TN-GLC-FE-100BX-U	1310 nm Tx/1550 nm Rx single mode
TN-GLC-FE-100BX-D	1550 nm Tx/1310 nm Rx single mode
Fiber Optic Transmitter Power:	min: -14.0 dBm    max: -8.0 dBm
Fiber Optic Receiver Sensitivity:	min: -32.0 dBm    max: -0.0 dBm
Link Budget:	18 dB

**Fiber cable — continued**

TN-GLC-FE-100-FX	1300 nm multimode
TN-GLC-GE-100-FX	1300 nm multimode
Fiber Optic Transmitter Power:	min: -23.5 dBm    max: -14.0 dBm
Fiber Optic Receiver Sensitivity:	min: -32.0 dBm    max: -8.0 dBm
Link Budget:	8.5 dB

TN-GLC-FE-100-LX	1310 nm single mode
Fiber Optic Transmitter Power:	min: -15.0 dBm    max: -8.0 dBm
Fiber Optic Receiver Sensitivity:	min: -34.0 dBm    max: 0.0 dBm
Link Budget:	19 dB

TN-SPF-GE-L	1310 nm single mode
Fiber Optic Transmitter Power:	min: -9.0 dBm    max: -3.0 dBm
Fiber Optic Receiver Sensitivity:	min: -20.0 dBm    max: 0.0 dBm
Link Budget:	11 dB

TN-SFP-GE-S	850 nm multimode
Fiber Optic Transmitter Power:	min: -9.0 dBm    max: -3.0 dBm
Fiber Optic Receiver Sensitivity:	min: -18.0 dBm    max: -3.0 dBm
Link Budget:	9 dB

TN-SFP-GE-Z	1550 nm single mode
Fiber Optic Transmitter Power:	min: 0.0 dBm    max: -5.0 dBm
Fiber Optic Receiver Sensitivity:	min: -24.0 dBm    max: -3.0 dBm
Link Budget:	24 dB

TN-GLC-ZX-SM	1550 nm single mode
Fiber Optic Transmitter Power:	min: 0.0 dBm    max: +5.0 dBm
Fiber Optic Receiver Sensitivity:	min: -24.0 dBm    max: -3.0 dBm
Link Budget:	24 dB

TN-CWDM-SFP-1xx0 series	1270nm to 1610nm single mode
TN-CWDM-100LX-1xx0 series	1270nm to 1610nm single mode
Fiber Optic Transmitter Power:	min: 5.0 dBm    max: 0.0 dBm
Fiber Optic Receiver Sensitivity:	min: -34 dBm    max: -0.0 dBm
Link Budget:	29 dB

**Fiber cable — continued**

For the most up-to-date information on the TN-SFP-GE-x, TN-GLC-xx-xx, TN-CWDM-SFP-1xx0, and TN-CWDM-100XL-1xx0 transceiver SFP modules, view the user's guide on-line at: [www.transition.com](http://www.transition.com) and then click Product/Product Finder.

**WARNING:** Visible and invisible laser radiation when open. DO NOT stare into beam or view directly with optical instruments. Failure to observe this warning could result damage to your eyes or blindness.

**WARNING:** Use of controls, adjustments or the performance of procedures other than those specified herein could result in hazardous radiation exposure.

The fiber optic transmitters on this device meet Class I Laser safety requirements per IEC-825/CDRH standards and comply with 21 CFR1040.10 and 21CFR1040.11.

**Technical Specification**

For use with Transition Networks Model TN-GLC and TN-CWDM SFPs.

Standard: IEEE 802.3 2003; ANSI X3.297-1997

TN-GLC-FE-xxx, TN-GLC-GE-xxx, TN-CWDM-100LX-1xx0:

Compliant with IEEE 802.3 100Base-Fx; IEEE802.3ah; 100Base-Bx; Intermediate - Reach Sonet OC-3/SDH STM-1 (*s-1-1*)

TN-GLC-xx-xx, TN-SFP-GE-x, and TN-CWDM-SFP-1xx0 modules:

Compliant with IEEE 802.3z Gigabit Ethernet; FC-1x/2x SM-LC-L FC-PI.

TN-GLC-T modules:

Compliant with IEEE 802.3ab Gigabit Ethernet (*1000Base-T*)  
TN-CWDM-xx-1xx0 output wavelength  $-6.0 < \lambda_c < +7.5$  nm

Dimensions: 0.52 x 2.18 x 0.33 in (*13.4 x 55.5 x 8.5 mm, Fiber*)  
0.95 x 2.8 x 0.54 in (*14-0 x 71.1 13.7 mm, Copper*)

Weight: 1 oz. (28 g) approximately

Power: 3.3V, Fiber 0.66 W; Copper 1.0 W

Operating Temp: TN-GLC-xx-xx, TN-CWDM-xx-1xx0  
0°C to 70°C (*32°F to 158°F*)

Operating Temp: TN-SFP-GE-x -40°C to 85°C (*-40° to 185°F*)

Storage Temp: -40°C to 85°C (*-40° to 185°F*)

Humidity: 5% to 95%, non-condensing

Warranty: Lifetime

**Note:** All Transition Networks' SFP modules fully comply with the Multi-Sourcing Agreement (MSA). This compliance allows our SFP modules to be used in other MSA compliant SFP platforms. In addition, the SFP modules referenced in this manual (*TN-SFP-GE-x, TN-GLC-xx-xx, TN-CWDM-SFP-1xx0, TN-CWDM-XL100-1xx0*) are also compatible with all Cisco SFP-based equipment supporting similar Cisco model SFPs as well as its IOS software and SMARTnet. TN SFP modules ARE NOT Cisco OEM brand modules.

## Contact Us

### Technical support

Technical support is available 24 hours a day.  
U.S.A. and Canada: 1-800-260-1312  
International: 00-1-952-941-7600

### Transition now

Chat live via the Web with Transition Networks Technical Support.  
Log onto [www.transition.com](http://www.transition.com) and then click the Tech Support/Transition Now link.

### Web-Based seminars

Transition Networks provides seminars via live web-based training.  
Log onto [www.transition.com](http://www.transition.com) and click the Learning Center link.

### E-Mail

Ask a question anytime by sending an e-mail to our technical support staff.  
[techsupport@transition.com](mailto:techsupport@transition.com)

### Address

Transition Networks  
10900 Red Circle Drive  
Minnetonka, MN 55343, U.S.A.  
telephone: 952-941-7600  
toll free: 800-526-9267  
fax: 952-941-2322



## Declaration of Conformity

Name of Mfg: Transition Networks  
10900 Red Circle Drive, Minnetonka MN 55343 U.S.A.

Model Number(s): TN-GLC-T, TN-GLC-SX-MM, N-GLC-SX-MM-2K,  
TN-GLC-LH-SM, TN-GLC-LHX-SM, TN-GLC-BX-U,  
TN-GLC-BX-D, TN-GLC-BX-U-40, TN-GLC-BX-D-40,  
TN-GLC-BX-U-60, TN-GLC-BX-D-60,  
TN-GLC-FE-100BX-U, TN-GLC-FE-100BX-D,  
TN-GLC-FE-100-FX, TN-GLC-FE-100-LX,  
TN-GLC-GE-100-FX, TN-SFP-GE-L,  
TN-SFP-GE-S, TN-SFP-GE-Z, TN-GLC-ZX-SM,  
TN-CWDM-SFP-1xx0, TN-CWDM-100XL-1xx0

Purpose: To declare that the TM-SFPs to which this declaration refers are in compliance with the following directive(s) and standard(s):  
EMC Directive 2004/108/EC; EN 55022:2006+A1:2007 Class A;  
EN55024:1998+A1:2001+A2:2003; EN6100-2-3; EN6100-3-3; CFR Title 47 Part 15 Subpart B Class A. Low Voltage Directive: 2006/95/EC; IEC 60950-1:2005; CFR Title 21 Section 1040.10 Class I.

I, the undersigned, hereby declare that the model number(s) listed in this declaration of conformity are in compliance with the directive(s) and standard(s) herein.

  
Stephen Anderson, Vice-President of Engineering

March 2010  
Date

## Compliance Information

### FCC regulations

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 instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at the user's own expense.

### Canadian regulations

This digital apparatus does not exceed the Class A limits for radio noise for digital apparatus set out on the radio interference regulations of the Canadian Department of Communications.  
Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de la Class A prescrites dans le Règlement sur le brouillage radioélectrique édicté par le ministère des Communications du Canada.

### European regulations

#### Warning

This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

#### Achtung !

Dieses ist ein Gerät der Funkstörgrenzwertklasse A. In Wohnbereichen können bei Betrieb dieses Gerätes Rundfunkstörungen auftreten. In diesem Fall ist der Benutzer für Gegenmaßnahmen verantwortlich.

#### Attention !

Ceci est un produit de Classe A. Dans un environnement domestique, ce produit risque de créer des interférences radioélectriques, il appartiendra alors à l'utilisateur de prendre les mesures spécifiques appropriées.



In accordance with European Union Directive 2002/96/EC of the European Parliament and of the Council of 27 January 2003, Transition Networks will accept post usage returns of this product for proper disposal. The contact information for this activity can be found in the 'Contact Us' portion of this document.



CAUTION: RJ connectors are NOT INTENDED FOR CONNECTION TO THE PUBLIC TELEPHONE NETWORK. Failure to observe this caution could result in damage to the public telephone network.

Der Anschluss dieses Gerätes an ein öffentliches Telekommunikationsnetz in den EG-Mitgliedstaaten verstösst gegen die jeweiligen einzelstaatlichen Gesetze zur Anwendung der Richtlinie 91/263/EWG zur Angleichung der Rechtsvorschriften der Mitgliedstaaten über Telekommunikationsendeinrichtungen einschliesslich der gegenseitigen Anerkennung ihrer Konformität.

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