



## User's Guide

### TN-EX-SFP-xx-xx & TN-JX-xx-xx Juniper compatible Small Form Factor Pluggable (SFP) Transceiver Modules

Transition Networks TN-EX-SFP-xx-xx & TN-JX-xx-xx series small form factor pluggable (SFP) transceiver modules are designed to install any SFP port. These SFP modules allow a 100Base-FX, 100Base-LX and 1000Base-X interface to the network through the SFP connector. TN-EX-SFP transceivers are designed for bi-directional, serial optical data communications: Fast Ethernet, Gigabit Ethernet at speeds up to 1.25Gbps

## Installation

### Installing the transceiver module

To install the transceiver module, do the following:

1. Position the transceiver at the installation slot with the TN label side up (*standalone device*) or component side of slide-in card.
2. Carefully insert the transceiver fully into the slot.

### Fiber cable physical characteristics

The fiber cable physical characteristics must meet or exceed IEEE 802.3ae specifications:

Single mode fiber ( <i>recommended</i> ):	9 $\mu\text{m}$
Multimode fiber ( <i>recommended</i> ):	62.5/125 $\mu\text{m}$
Multimode fiber ( <i>optional</i> ):	100/140, 85/140, 50/125 $\mu\text{m}$

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

## Installation — continued

### Connecting fiber cables

To install the fiber cable, do the following:

1. Locate the appropriate fiber cable.
2. Install the cable as shown below.



## Technical Specification

For use with Transition Networks Model TN-EX-SFP-xx-xx & TN-JX-xx-xx series transceiver modules.

Dimensions:	0.52 x 2.18 x 0.33 in (13.4 x 55.5 x 8.5 mm, Fiber)
Weight:	1 oz. (28 g) approximately
Voltage:	3.3V, Fiber 0.66 W
Operating Temp:	0°C to 70°C (32°F to 158°F)
Storage Temp:	-40°C to 85°C (-40° to 185°F)
Humidity:	5% to 95%, non-condensing
Warranty:	Lifetime

## Technical Specification — continued

**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 TN-EX-SFP-xx-xx and TN-JX-xx-xx SFP modules referenced to in this manual are also compatible with all Juniper SFP-based equipment, supporting similar Juniper model SFPs. TN SFP modules ARE NOT Juniper 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

## 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.

### Trademark notice

All trademarks and registered trademarks are the property of their respective owners.

Copyright restrictions © 2010 Transition Networks. All rights reserved. No part of this work may be reproduced or used in any form or means (*graphic, electronic, mechanical*) without written permission from Transition Networks.