



## USER'S GUIDE

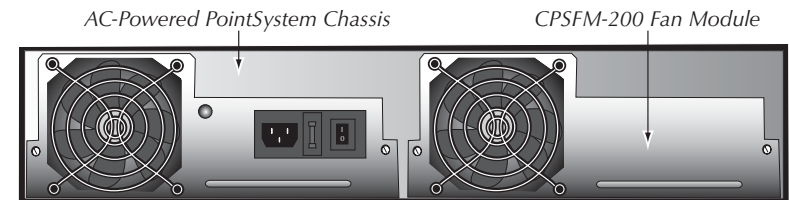
### CPSFM-200

#### Fan Module

- *PointSystem™*
- *CPSMC18xx-xxx Accessory*
- *CPSMC19xx-100 Accessory*

The Transition Networks CPSFM-200 fan module is a slide-in-module that provides optional additional cooling to the CPSMC18xx-xxx (18-slot) and the CPSMC19xx-100 (19-slot) *PointSystem™* chassis and any installed media converter slide-in-modules and management modules.

The CPSFM-200 may be installed in either the AC-powered or the DC-powered, 18-slot or 19-slot, *PointSystem™* chassis. The drawing below shows the CPSFM-200 installed in the back of a AC-powered *PointSystem™* chassis.



**NOTE:** The CPSFM-200 fan module is required in *PointSystem™* applications where the ambient temperatures approach 60°C.

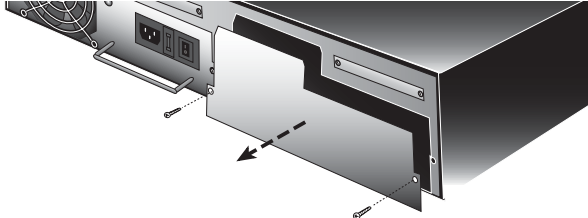
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## Installation

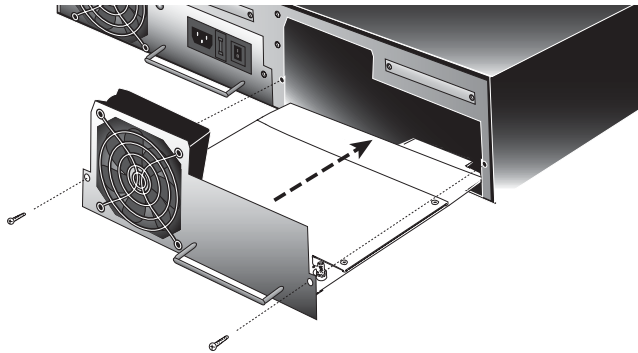
**NOTE:** The CPSFM-200 fan module may be “hot swapped” (i.e., installed in the chassis while the chassis is in operation).

To install the CPSFM-200 fan module into either the CPSMC18xx-xxx or the CPSMC19xx-100 *PointSystem*™ chassis:

1. Remove and retain the two (2) screws that secure the protective plate to the chassis.
2. Pull the plate away from the chassis.



3. Carefully slide the fan module into the installation slot, aligning the module with the installation guides.



4. Ensure that the fan module is firmly seated inside the chassis.
5. Carefully install the two (2) screws (retained in step 1) through the fan module and into the chassis, rotating clockwise to secure.
6. Verify that the fan module is powered by observing the fan operation.

## Technical Specification

For use with Transition Networks Model CPSFM-200 or equivalent.

<b>Standards</b>	FCC & CISPR Class A&B; CE Mark	
<b>Dimensions</b>	8.3" x 8.4" x 2.7" (211 mm x 211 mm x 69 mm)	
<b>Weight</b>	1 lb. (0.45 kg) (approximate)	
<b>Power Consumption</b>	4.5 watts	
<b>MTBF</b>	145,000 hours (MIL217F2 V5.0) (MIL-HDBK-217F) 639,000 hours (Bellcore7 V5.0)	
<b>Environment</b>	Tmra*:	0 to 60°C (32 to 140°F)
	Storage Temperature:	-20 to 85°C (-4 to 185°F)
	Humidity:	5 to 95%, non condensing
	Altitude:	0 to 10,000 feet
<b>Warranty</b>	Lifetime	

\*Manufacturer's rated ambient temperature: Tmra range for this fan module depends on the physical characteristics and the installation configuration of the Transition Networks *PointSystem*™ chassis in which this module will be installed.

## Contact Us

### Technical Support

Technical support is available 24 hours a day.

US 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** and click the **Transition Now** link.

### Web-Based Seminars

Transition Networks provides seminars via live web-based training.

Log onto **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**

### Address

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Minneapolis, MN 55344, USA  
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toll free: 800-526-9267  
fax: 952-941-2322

# Compliance Information

CISPR22/EN55022 Class A & B

CE Mark



## FCC Regulations

This equipment has been tested and found to comply with the limits for a Class A&B 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&B 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&B prescrites dans le Règlement sur le brouillage radioélectrique édicté par le ministère des Communications du Canada.

		<b>Declaration of Conformity</b>	
Name of Mfg:	<b>Transition Networks</b> 6475 City West Parkway, Minneapolis MN 55344 USA		
Model:	<b>CPSFM-200 Fan Module</b>		
Part Number(s):	<b>CPSFM-200</b>		
Regulation:	<b>EMC Directive 89/336/EEC</b>		
Purpose:	To declare that the <b>CPSFM-200</b> to which this declaration refers is in conformity with the following standards.		
	CISPR 22: 1993; EN 55022:1998 Class A&B; EN 55024:1998		
	<i>I, the undersigned, hereby declare that the equipment specified above conforms to the above Directive(s) and Standard(s).</i>		
		<u>July 8, 2000</u>	
	Stephen Anderson, Vice-President of Engineering	Date	

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Printed in the U.S.A.

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