



## User's Guide

### CPSMC0100-226 Single-Slot Point System™ Chassis

The Transition Networks CPSMC0100-226 series single-slot, redundant power input option *PointSystem™* chassis is designed for installation of a single, selectable Transition Networks *PointSystem™* media converter slide-in-module. The

redundant power option provides the means to power the chassis from two independent power supplies.

Part Number	Description
CPSMC0100-226	Single-Slot Point System chassis with two power supplies ( <i>one grounded and one ungrounded</i> ).

**Note:** The following media converters are not compatible with the CPSMC0100-226 chassis: C4TEF, CAPTF, CBFTF 120 & 140, CEMTF, CGFEB, and CMEFG.

#### Optional Accessories *(sold separately)*

Part Number	Description
SPS-1872-SA	Optional External Power Supply; 18-60VDC Stand-Alone Output: 12.6VDC, 1.0 A
WMBP	Optional Wall Mount Bracket; 5.0 in. (127 mm)
WMBV	Optional Vertical Mount Bracket; 5.0 in. (127 mm)
WMBD	Optional DIN Rail Mount Bracket; 5.0 in. (127 mm)

Installation . . . . .	2
Technical Specifications . . . . .	4
Troubleshooting . . . . .	5
Compliance Information . . . . .	6

## Installation

### Installing a Slide-in-Module

**CAUTION:** Wear a grounding device and observe electrostatic discharge precautions when installing the media converter slide-in-module into the single-slot chassis. Failure to observe this caution could result in damage or failure of the media converter slide-in-module.

The maximum power delivery capacity for the CPSMC0100-226 is 6 watts.

To install a slide-in-module into the single-slot chassis:

1. Refer to the user's guide that comes with the slide-in-module to ensure that any switches or jumpers on the module's circuit board are set correctly for the site installation.
2. Carefully align the slide-in-module to the chassis installation guides and slide the module into the installation slot.
3. Ensure that the slide-in-module is firmly seated inside the chassis.
4. Push in and rotate the attached panel fastener screw to secure the slide-in-module to the chassis. See photo below.



### Power the chassis

#### CAUTION:

When using two power supplies to power the chassis, one must be a power supply with an ungrounded secondary. Using two power supplies (*with each secondary grounded to protective earth ground*) could cause unreliable operation of the chassis and its converters, due to installation specific Protective Ground fault conditions.

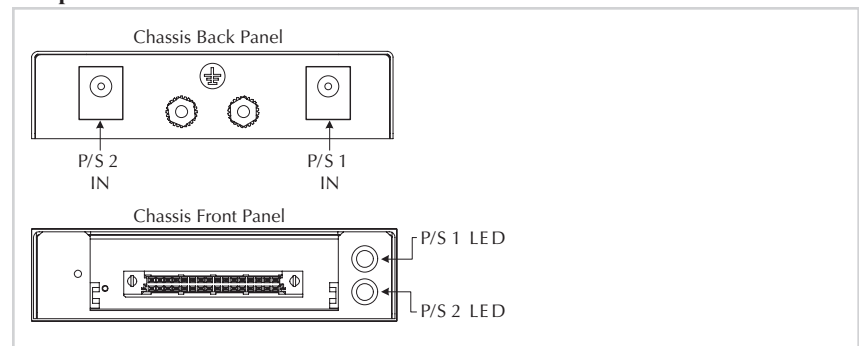
**Note:** The first power supply shipped with the chassis has its secondary connected to protective earth ground. The second power supply does not have its secondary connected to protective earth. Do Not use two power supplies (*with grounded secondaries*) to power the chassis.

To supply power to the single-slot chassis using the power supply:

1. Connect the barrel connector of the power supply (*grounded secondary*) to one of the single-slot chassis' power ports (*located on the back of the chassis*). See figure below.
2. Connect the barrel connector of the second power supply (*ungrounded secondary*) to the single-slot chassis' remaining power port.
3. Connect the power supply plug(s) into AC power.
4. Verify that the single-slot chassis is powered by observing the illuminated LED(s) on the chassis front panel. See the figure below.

**Note:** If the power supply/supplies are 11VDC or above, the associated LED/LEDs will be lit (*PS1 LED/PS2 LED*). If either power supply's output is under the 11VDC minimum requirement that LED will not turn ON, indicating a problem.

#### DC power source



To power the single-slot chassis, using the SPS1872-SA DC external power supply, consult the SPS1872-SA user manual at [TransitionNetworks.com](http://TransitionNetworks.com).

## Installation -- Continued

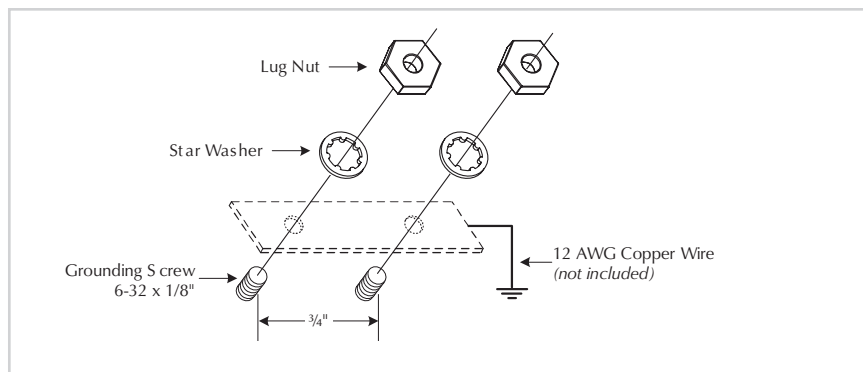
### Grounding the media converter

The single-slot chassis comes equipped with grounding lugs located on the back panel. They require a grounding conductor wire terminated with a two-hole, compression-type grounding connector. The grounding wire—which must be a copper conductor—is not included with the chassis and must be provided by the customer/installer.

The electrical conducting path from the single-slot chassis must do the following:

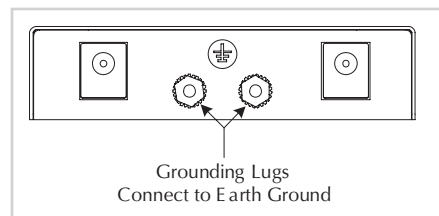
- Flow via the grounding lugs to the common bonding network (CBN) for telecom installations, or to an alternative approved grounding system (*if required*) for non-telecom installations
- Be of sufficiently low impedance to conduct fault currents likely to be imposed on the media converter
- Enable proper operation of any over-current protection devices

The conductor must be fastened to the grounding lugs with the enclosed anti-rotation star-washers and lug-nut fasteners. The applied torque required to the connector lug-nut fasteners is specified by the connector's manufacturer.



To properly ground the single-slot chassis:

1. Obtain one (1) grounding conductor (*12 AWG copper wire or larger*) with a two-hole, compression-type grounding connector.
2. Attach the grounding conductor to the converter by placing the two-hole connector onto the grounding lugs and fasten with the enclosed lock-washers / lug-nuts at the proper torque (*per the manufacturer's specification*).
3. Attach the opposite end of the grounding conductor to the common bonding network (CBN) for telecom, or to earth ground (*if required*) for non-telecom installations.



## Technical Specifications

For use with Transition Networks Model CPSMC0100-226 or equivalent.

**Note:** The CPSMC0100-226 single-slot chassis is Class B compliant ONLY if Class B compliant media converters are installed. Installation of a Class A compliant media converter reduces the chassis to Class A compliance.

Compliance	EN55022; Class A&B; CE Mark
Dimensions	3.875 x 5.5 x 1.0 in (98 x 140 x 25 mm)
Weight	16 oz. (454 g) approximately
MTBF*:	394,241 hours (MIL217F2 V5.0) (MIL-HDBK-217F) 233,811,224 hours (Bellcore7 V5.0)

### Maximum power delivery capacity

CPSMC0100-226:	6 Watts
Power supplies:	Shipped: 12VDC, 1.25A, 100-240VAC, 50/60Hz Optional: 12VDC, 2.5A, 100-240VAC, 50/60Hz

### Environment

Tmra**:	0 to 60°C (32 to 140° F)
Storage Temp:	-40 to 85°C (-40 to 185°F)
Humidity:	5 to 95%, non-condensing
Altitude:	0 to 10,000 feet
Warranty:	Lifetime

The information in this user's guide is subject to change. For the most up-to-date information on the CPSMC0100-226 single-slot chassis, view the user's guide on-line at: [www.transition.com](http://www.transition.com).

**WARNING:** Visible and invisible laser radiation when open. Do not stare into the beam or view the beam directly with optical instruments. Failure to observe this warning could result in an eye injury or blindness.

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

\*MTBF is estimated using the predictability method. This method is based on MIL-217F at 25°C ambient temperature, typical enclosure heat rise of 10°C, and nominal operating conditions and parameters. Installation and configuration specific MTBF estimates are available upon request. Contact Technical Support.

\*\*Manufacturer's rated ambient temperature is for the single-slot chassis. Refer to the user's guide of the installed media converter for its operating temperature range.

## Troubleshooting

1. Is a media converter installed in the single-slot chassis?  
NO
  - Install a slide-in-module media converter into the single-slot chassis. See page 2 for installation instructions.
  - Is the module power LED ON
  - Proceed to step 2.
 YES
  - Proceed to step 2.
  
2. Is the Power LED(s) on the media converter illuminated?  
NO
  - Is the power supply the proper type of voltage and cycle frequency for the AC outlet? (*See "Power Supply" on page 5.*)
  - If using two power supplies, If used, is the power supply with the three-prong plug installed in the chassis and in a grounded AC outlet?
  - Contact Technical Support: US/Canada: 1-800-260-1312, International: 00-1-952-941-7600.
 YES
  - Proceed to step 3.
  
3. Contact Technical Support: US/Canada: 1-800-260-1312, International: 00-1-952-941-7600.

## Contact Us

### Technical Support

Technical support is available 24 hours a day

United States: 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 click the 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



6475 City West Parkway

Minneapolis, MN 55344, U.S.A.

telephone: 952-941-7600

toll free: 800-526-9267

fax: 952-941-2322

		<b>Declaration of Conformity</b>	
Name of Mfg:	Transition Networks 6475 City West Parkway, Minneapolis MN 55344 U.S.A.		
Model:	CPSMC0100-226 Single-Slot PointSystem™ Chassis		
Part Numbers:	CPSMC0100-226		
Regulation:	EMC Directive 89/336/EEC		
Purpose:	To declare that the CPSMC0100-226 to which this declaration refers is in conformity with the following standards.		
	EN 55022:1998 Class A&B; EN 55024:1988; FCC Part 15 Subpart B; EN 61000-3-2:1995; EN 61000-3-3:1995		
I, the undersigned, hereby declare that the equipment specified above conforms to the above Directive(s) and Standard(s).			
	 Stephen Anderson, Vice-President of Engineering	July 18, 2006 Date	

---

# Compliance Information

CISPR/EN55022 Class A & B + EN55024

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.



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

© 2000, 2004 Transition Networks.

All rights reserved. No part of this work may be reproduced or used in any form or by any means – graphic, electronic or mechanical – without written permission from Transition Networks.

Printed in the U.S.A.

**33361.B**

---