TRANSITION NETWORKS®

User's Guide

CPSMC0200-22x

Dual-Slot *PointSystem*™ Chassis

The Transition Networks CPSMC0200-22x series dual-slot *PointSystem*™ chassis is designed for installation of two selectable Transition Networks *PointSystem*™ media converter slide-in-modules. The redundant power option provides the means to power the chassis from two independent power supplies.

Part Number	Description
CPSMC0200-221	Dual-Slot Point System chassis with two power supplies *(one grounded and one ungrounded)*. The chassis provides Last Gasp trap generation.
CPSMC0200-226	Dual-Slot Point System chassis with two power supplies *(one grounded and one ungrounded)*.

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; Length: 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

Installing a slide-in-module

CAUTION: DO NOT install Two (2) Point System media converter slide-in-modules with a total power requirement exceeding 12 W *(with an average of 6 W per slot)*. Failure to observe this caution could result in data losses and media converter failure.

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

Note: If only installing one slide-in-module, ensure network standards compliance by obtaining a custom faceplate *(P/N CPSFP-200)* from Transition Networks for installation into the second, unused slot.

To install a slide-in-module into the dual-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 slide-in-module circuit board are set correctly for the site installation.
2. Carefully align the slide-in-module with 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 faster screw clockwise to secure the slide-in-module to the chassis front.
5. Repeat steps 1-4 for the second slide-in-module.

Installation -- Continued

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.

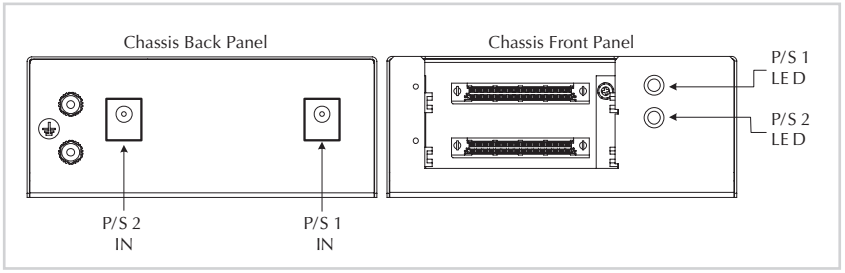
Note: The power supply shipped with the chassis has its secondary connected to protective earth ground. The optional power supply does not have its secondary connected to protective earth. Do Not use two power supplies *(with grounded secondaries)* to power the chassis.

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

1. Connect the barrel connector of the power supply *(grounded secondary)* to one of the dual-slot chassis' power ports *(located on the back of the chassis)*. See figure below. If using the *(grounded secondary)* power supply only, go to step 3.
2. Connect the barrel connector of the second power supply *(ungrounded secondary)* to the dual-slot chassis' remaining power port.
3. Connect the power supply plug(s) into AC power.
4. Verify that the dual-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 dual-slot chassis using the SPS1872-SA DC external power supply, consult the SPS1872-SA user manual at Transition Networks.com.

Last Gasp Option *(CPSMC0200-221 models only)*

The CPSMC0200-221 models feature the Last Gasp option, which enables the device to send an SNMP trap in the event of a power failure, alerting the management console that the device has failed.

Installation -- Continued

Grounding the Media Converter

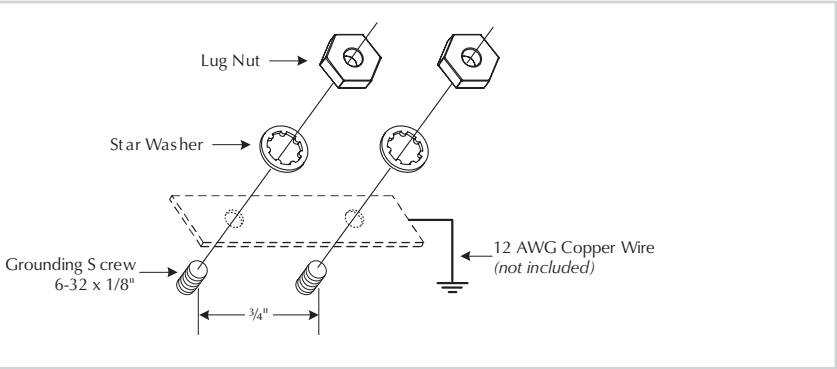
The dual-slot chassis comes equipped with grounding lugs located on the back panel. They require a grounding conductor wire terminated with a two-hole, compression-type, grounding connector. The grounding wire -- which must be a copper conductor -- is not included with the chassis and must be provided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

The electrical conducting path from the dual-slot chassis must:

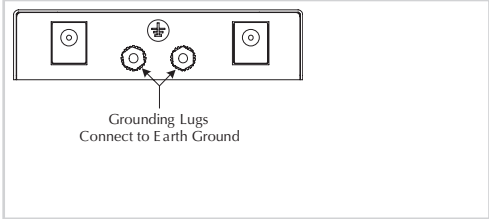
- Flow via the grounding lugs to the common bonding network (CBN) for telecom installations, or to an alternative approved grounding system *(if required)* for non-telecom installations.
- Be of sufficiently low impedance to conduct fault currents likely to be imposed on the media converter, and
- Enable 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 dual-slot chassis:



1. Obtain one (1) grounding conductor *(12 AWG copper wire gauge 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 CPSMC0200-22x or equivalent.

Note: The CPSMC0200-22x dual-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.

The maximum power delivery capacity for each chassis slot is 12 Watts with an aggregate chassis maximum of 6 watts per slot. Example: A 12-Watt media converter would require the power of both slots. In this example, the second slot must remain unused.

Compliance	EN55022; Class A&B; CE Mark
Dimensions	5.7 x 5.5 x 2.2 in *(145 x 139.7 x 56 mm)*
Weight	1.8 lb. *(0.817kg.)* approximately
*MTBF:	48,501 hours *(MIL217F2 V5.0) (MIL-HDBK-217F)* 128,553 hours *(Bellcore7 V5.0)*
Maximum power delivery capacity:	
CPSMC0200-22x:	12 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: -20° to 85°C Humidity: 10 to 90%, 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 CPSMC0100-22x dual-slot chassis, view the user's guide on-line at: 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 for the dual-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 dual-slot chassis?
   NO
   - Install a slide-in-module media converter into the dual-slot chassis. See page 2 for installation instructions.
   - Proceed to step 2.

   YES
   - Proceed to step 2.

2. Is the Power LED on the installed media converter illuminated?
   NO
   - Is the power supply the proper type of voltage and cycle frequency for the AC outlet? *(See "Power Supply DC Output" on page 5.)*
   - Is the power supply properly installed in the chassis and in the grounded AC outlet?
   - Contact Technical Support: US/Canada: 1-800-260-1312, International: 00-1-952-941-7600.

   YES
   - Proceed to step 3.

3. Are two gigabit media converters installed in the dual-slot chassis?

   YES
   - The CPSMC0200-22x dual-slot chassis can accommodate only one gigabit media converter. Remove one of the two gigabit media converters.
   - Contact Technical Support: US/Canada: 1-800-260-1312, International: 00-1-952-941-7600.

   NO
   - 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: 800-260-1312
International: 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
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

TRANSITION NETWORKS

Declaration of Conformity

Name of Mfg:	Transition Networks 6475 City West Parkway, Minneapolis MN 55344 U.S.A.
Model:	CPSMC0200-22x Serues Dual-Slot PointSystem™ Chassis
Part Numbers:	CPSMC0200-221, CPSMC0200-226
Regulation:	EMC Directive 89/336/EEC
Purpose:	To declare that the CPSMC0200-2x0 to which this declaration refers is in conformity with the following standards: EN 55022:1998 Class A & B; FCC Part 15 Subpart B

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
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 öffentlickes Telekommunikationsnetz in den EG-Mitgliedstaaten verstösst gegen die jeweligen 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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