T R A N S I T I O N
**n e t w o r k s**

User's Guide
CPSMP-120
AC Power Supply Module
- *PointSystem™*
- *CPSMC13xx-100 Accessory*

The Transition Networks CPSMP-120 power supply is an AC slide-in-module that provides optional, redundant power to the CPSMC13xx-100 *PointSystem™* 13-slot chassis and any installed media converter slide-in-modules and management modules.

The figure below illustrates the components of the CPSMP-120 power supply:

- An **On/Off switch** that, when set to **"I"**, allows the power supply module to supply power to the chassis, and any installed modules.

- A **panel fastener screw** that secures the power supply module to the chassis.

- A **power LED** indicator.

- A **handle** for installing and removing the power supply module to/from the chassis.

- A **fuse** installed in a fuse holder.

- An **external power connector** that supplies power from a standard AC wall outlet.
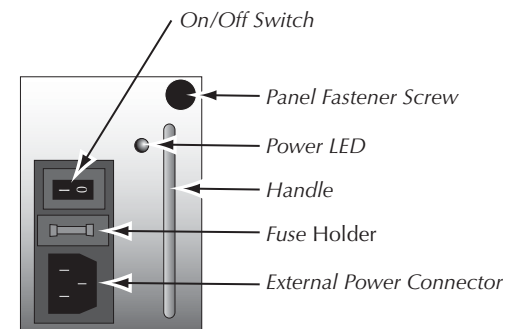

On/Off Switch

Panel Fastener Screw

Power LED

Handle

Fuse Holder

External Power Connector

CAUTION: Wear a grounding device and observe electrostatic discharge precautions when installing or servicing the power supply module. Failure to observe this caution could result in damage to, and subsequent failure of, the power supply module.

CPSMP-120 in the 13-Slot Chassis

The CPSMP-120 power supply module may replace an existing CPSMP-120 module or be installed in the second installation slot (see drawing below) of the **CPSMC1300-100** 13-slot chassis to become the optional, redundant power supply.
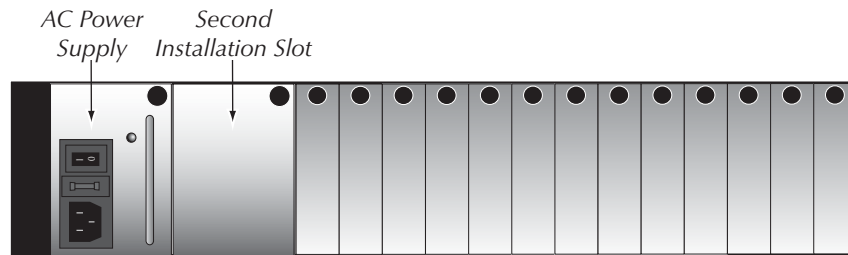
NOTE: The CPSMP-120 power supply module may also be installed as the redundant power supply in **either** DC-powered 13-slot chassis:

- CPSMC1310-100 (48-VDC chassis)
- CPSMC1320-100 (24-VDC chassis)

For more information, see the user's guide for the CPSMC13xx-100 13-slot chassis on-line at: www.transition.com.

WARNING: Do not connect the power supply module to the external power source before installing it into the chassis. Failure to observe this caution could result in equipment damage and/or personal injury or death.

Install the CPSMP-120

CAUTION: Ensure that the power supply module has been disconnected from the external power source and the module's On/Off switch has been set to "0". Failure to observe this caution could result in damage to, and subsequent failure of, the power supply module.

NOTE: The CPSMP-120 power supply module may be "hot swapped" (i.e., installed in the chassis while the chassis is in operation) **provided the module to be installed has been disconnected from its external power source and the module's On/Off switch has been set to "0".**

To install the CPSMP-120 power supply module into the CPSMC13xx-100 chassis:

1. Loosen the screw that secures the protective plate to the chassis and pull the plate away from the chassis.
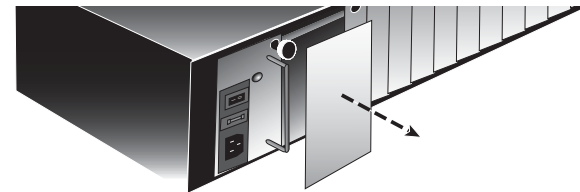
2. Ensure the On/Off switch on the power supply module is set to **"0"**.
3. Carefully slide the power supply module into the installation slot, aligning the module with the installation guides.
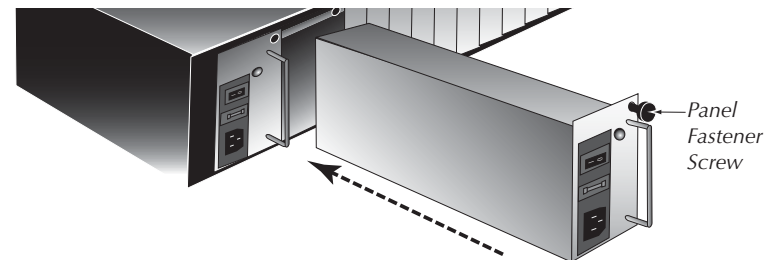

4. Ensure that the power supply module is firmly seated inside the chassis.
5. Rotate the attached panel fastener screw clockwise to secure the power supply module to the chassis.

Connect to External Power

CAUTION: Ensure that the On/Off switch on the power supply module is set to "0" when connecting to the external power source. Failure to observe this caution could result in damage to, and subsequent failure of, the power supply module.

To power the CPSMP-120 power supply module:

1. Set the On/Off switch on the power supply module to **"0"**.

2. Connect the female end of the AC power cord to the male end of the external power connector.

3. Connect the male end of the AC power cord into the correct voltage AC rack or wall socket.

4. Set the power supply module power switch to **"I"**.

5. Verify that the CPSMP-120 power supply module is powered by observing the illuminated power LED.
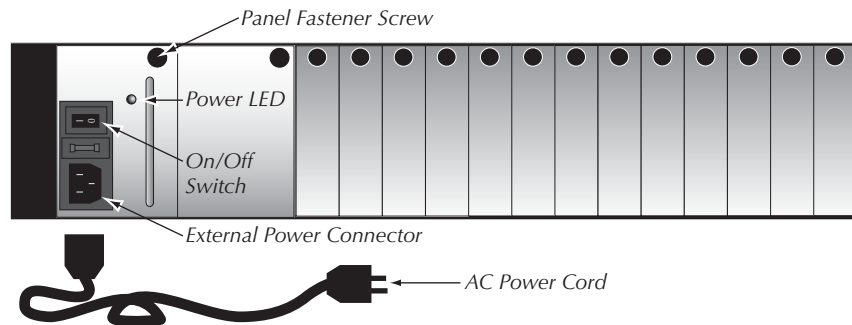
Panel Fastener Screw
Power LED
On/Off Switch
External Power Connector
AC Power Cord

WARNING: Do not connect the power supply module to the external power source before installing it into the chassis. Failure to observe this caution could result in equipment damage and/or personal injury or death.
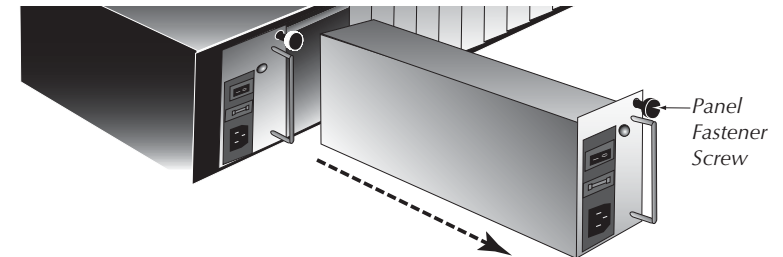
Replace the CPSMP-120

CAUTION: Ensure that the power supply module has been disconnected from the external power source and the module's On/Off switch has been set to "0". Failure to observe this caution could result in damage to, and subsequent failure of, the power supply module.

NOTE: The CPSMP-120 power supply module may be "hot swapped" (i.e., replaced while the chassis is in operation) **provided the module to be replaced has been disconnected from its external power source and the module's On/Off switch has been set to "0".**

To replace the CPSMP-120 power supply module:

1. Ensure the On/Off switch on the power supply module is set to **"0"**.

2. Disconnect the the male end of the AC power cord from the AC rack or wall socket.

3. Disconnect the female end of the AC power cord from the external power connector.

4. Rotate the attached panel fastener screw counter-clockwise.

Panel Fastener Screw

5. Carefully slide the power supply module to be replaced out of the chassis.

Replace the CPSMP-120 -- Continued

6. Carefully slide the replacement power supply module into the installation slot, aligning the module with the installation guides.

Panel Fastener Screw
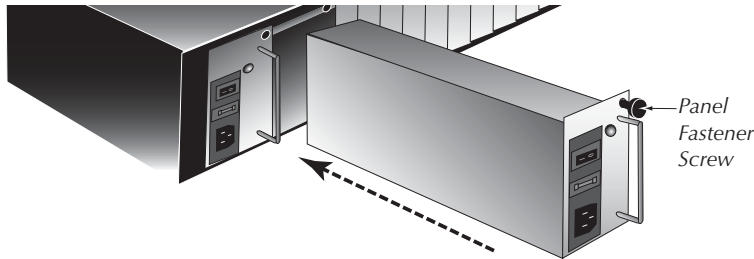
7. Ensure that the power supply module is firmly seated inside the chassis.

8. Rotate the attached panel fastener screw clockwise to secure the power supply module to the chassis.

9. See the "Connect to External Power" section (page 4) for instructions on re-connecting the power supply module to the external power source.

Replace the Fuse

CAUTION: Ensure that the power supply module has been disconnected from the external power source and the module's On/Off switch has been set to "0". Failure to observe this caution could result in damage to, and subsequent failure of, the power supply module.

NOTE: The CPSMP-120 power supply module may be "hot swapped" (i.e., serviced while the chassis is in operation) **provided the module to be serviced has been disconnected from its external power supply and the module's On/Off switch has been set to "0".**

 To replace the fuse in the CPSMP-120 power supply module:

1. Ensure the On/Off switch on the power supply module is set to **"0"**.

2. Disconnect the the male end of the AC power cord from the AC rack or wall socket.

3. Disconnect the female end of the AC power cord from the external power connector.

On/Off Switch   *Power LED*
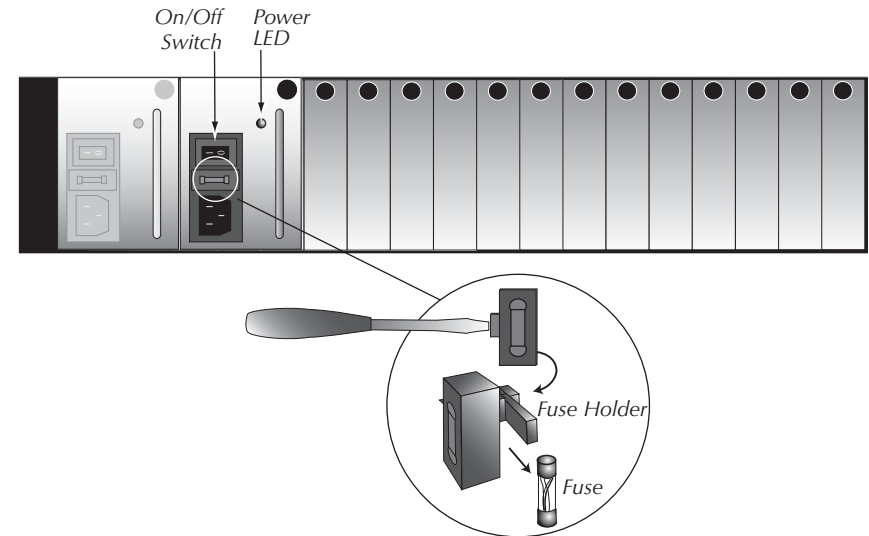
Fuse Holder

Fuse

4. From the inside edge of the power receptacle, insert a small flat blade screwdriver into the groove on the front, inside edge of the fuse holder and carefully pry the fuse holder from the power supply module.

5. Carefully remove the fuse from the fuse holder.

6. Install a **same size and rating** replacement fuse in the fuse holder.

7. Return the fuse holder and fuse to the installation position in the power supply module. Snap the fuse holder into place.

8. See the "Connect to External Power" section (page 4) for instructions on re-connecting the power supply module to the external power source.

Technical Specification

For use with Transition Networks Model CPSMP-120 or equivalent.

Standards	UL Listed; FCC & CISPR Class A; CE Mark
Dimensions	3.4" x 2.5" x 11.0" (86 mm x 64 mm x 279 mm)
Weight	1.8 lb (0.82 kg) (approximate)
Power Input	100-240 V, 50/60Hz, 0.4 to 1.0 Amp (typical with a fully-loaded chassis)
Power Output	12VDC at 10.83 Amp (maximum)
Fuse	4 Amp, 250V
MTBF	220,000 hours (MIL217F2 V5.0) (MIL-HDBK-217F) 538,224 hours (Bellcore7 V5.0)

Environment	Tmra*:	0 to 50°C (32 to 122°F)
	Storage Temp:	-20 to 85°C (-4 to 185°F)
	Humidity:	10 to 90%, non condensing
	Altitude:	0 to 10,000 feet

Warranty	Lifetime

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

For the most up-to-date information on the CPSMP-120 power supply module, view the user's guide on-line at: www.transition.com.

Troubleshooting

If the power supply module fails, isolate and correct the failure by determining the answers to the following questions and then taking the indicated action:

1. **Is the power LED on the CPSMP-120 power supply module illuminated?**
    NO
    - Is the power supply module inserted properly into the chassis?
    - Is the power supply module properly connected to the external power source?
    - Does the external power source provide power?
    - Contact Technical Support: US/Canada: 1-800-260-1312, International: 00-1-952-941-7600.

    YES
    - Proceed to step 2.

2. **Is the fuse on the CPSMP-120 power supply intact?**
    NO
    - **CAUTION: See the "Replace the Fuse" section (page 7) for the proper method for replacing the fuse to the CPSMP-120 power supply module.**
    - Contact Technical Support: US/Canada: 1-800-260-1312, International: 00-1-952-941-7600.

    YES
    - 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.
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
Transition Networks
6475 City West Parkway
Minneapolis, MN 55344, USA
telephone: 952-941-7600
toll free: 800-526-9267
fax: 952-941-2322

Compliance Information

UL Listed
C-UL Listed (Canada)
CISPR22/EN55022 Class A
CE Mark1

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 weichen Fällen der Benutzer für entsprechende Gegenmaßnahmen werantwortlich ist.

Attention!   Ceci est un produit de Classe A. Dans un environment domestique, ce produit risque de créer des interférences radioélectriques, il appartiendra alors à l'utilsateur de prende les measures spécifiques appropriées.

DECLARATION OF CONFORMITY

Name of Mfg: **Transition Networks**
                  6475 City West Parkway, Minneapolis MN 55344 USA
Model: **CPSMP-120 Redundant Power Supply 120/240 VAC**
Part Number(s):   **CPSMP-120**
Regulation: **EMC Directive 89/336/EEC**

Purpose: To declare that the **CPSMP-120** to which this declaration refers is in conformity with the following standards.

EN 55022:1998+A1:2000 Class A; EN 55024:1998; FCC Part 15 Subpart B; UL 1950; EN 61000-3-2:2000; EN 61000-3-3:1995+A1:2001; 21CFR Subpart J

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   June 8, 2001
                                                         Date