



# E-MCR-05 Media Converter Rack

## User Guide

- Supports up to twelve media converters
- Powered by a single internal universal power supply
- Media converters are hot swappable
- Includes twelve Shelf Support Panels

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## Introduction

Transition Networks E-MCR-05 series media converter rack provides space and power in a rack-mountable chassis for twelve (12) separate and independent Transition Networks stand-alone media converters, each with power requirements of 12 VDC.

**Note:** The E-MCR-05 media converter rack is intended for the installation of media converters designed and built by Transition Networks only.

The E-MCR-05 provides installation space for up to twelve (12) Transition Networks stand-alone media converters that require an external power supply.

## Package Contents

Contact your sales representative if you have not received the following:

- One E-MCR-05 Media Converter Chassis
- One Power Supply
- Twelve Shelf Support Panels
- One country-specific Power Cord
- Kit, Rack Mount Ears
- Nine Rubber Feet
- One Documentation Postcard

Save the packing material for possible future use.

## Optional Accessories (sold separately)

### *Optional Converter Mounting Brackets*

<b>RMBU</b>	Universal Rack Mount Bracket for Stand-Alone Converters
<b>RMBM</b>	Rack Mount Bracket for Mini Media Converters

## Installation

### *Table Top Installation*

The E-MCR-05 is shipped with nine (9) black rubber feet for optional installation on a table or other flat, stable surface. When installing on a table top, remove the rubber feet from the card and place them evenly spaced on the bottom of the chassis. The E-MCR-05 must be installed in a well-ventilated area.

### *Rack Installation*

The E-MCR-05 ships with four (4) attachment screws for installation in a standard rack.

**Warning:** Take care to mount the E-MCR-05 so that it will not fall. Failure to observe this warning could result in an injury or damage to the equipment.

**Caution:** Follow the rack manufacturer's recommendation for mounting the E-MCR-05 into the rack.

**Caution:** Ensure that proper airflow around the E-MCR-05 is maintained.

### *Power Cord Included*

To order the corresponding country-specific power cord, add the extension to the end of the SKU; Ex: E-MCR-05-NA = -NA = North America, -LA = Latin America. -EU = Europe, -UK = United Kingdom, -SA = South Africa, -JP = Japan, -OZ = Australia, -BR = Brazil.

## Safety Instructions for Rack Mount Installations

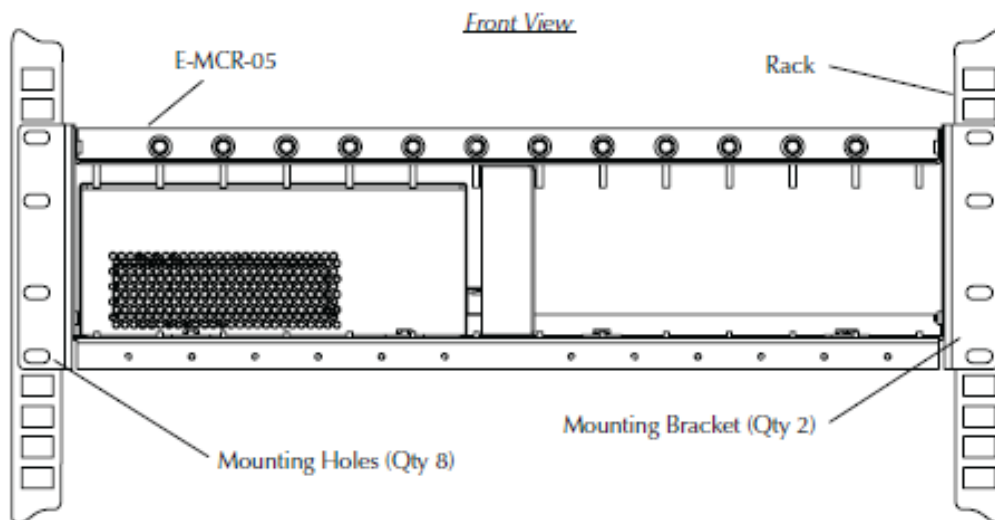
The instructions below (or similar) are intended for rackmount installation environments:

1. Elevated Operating Ambient: if installed in a closed or multi-unit rack assembly, the operating ambient temperature of the rack environment may exceed room ambient. Install the equipment in an environment compatible with the maximum ambient temperature (T<sub>ma</sub>) specified.
2. Reduced Air Flow: install the equipment in a rack so that the amount of air flow required for safe operation is not compromised.
3. Mechanical Loading: Mount the equipment in the rack so that a hazardous condition does not occur due to uneven mechanical loading (weight distribution/rack balance).
4. Circuit Overloading: consider the connection of the equipment to the supply circuit and the effect that overloading of the circuits might have on overcurrent protection and supply wiring. Consider all equipment nameplate ratings when addressing this concern.
5. Reliable Earthing: maintain reliable earthing of rack-mounted equipment; pay attention to supply connections other than direct connections to the branch circuit (e.g., use of power strips).

## Mount the E-MCR-05 into a Rack

The E-MCR-05 is 4.725" (2.7U) high which can be mounted as follows:

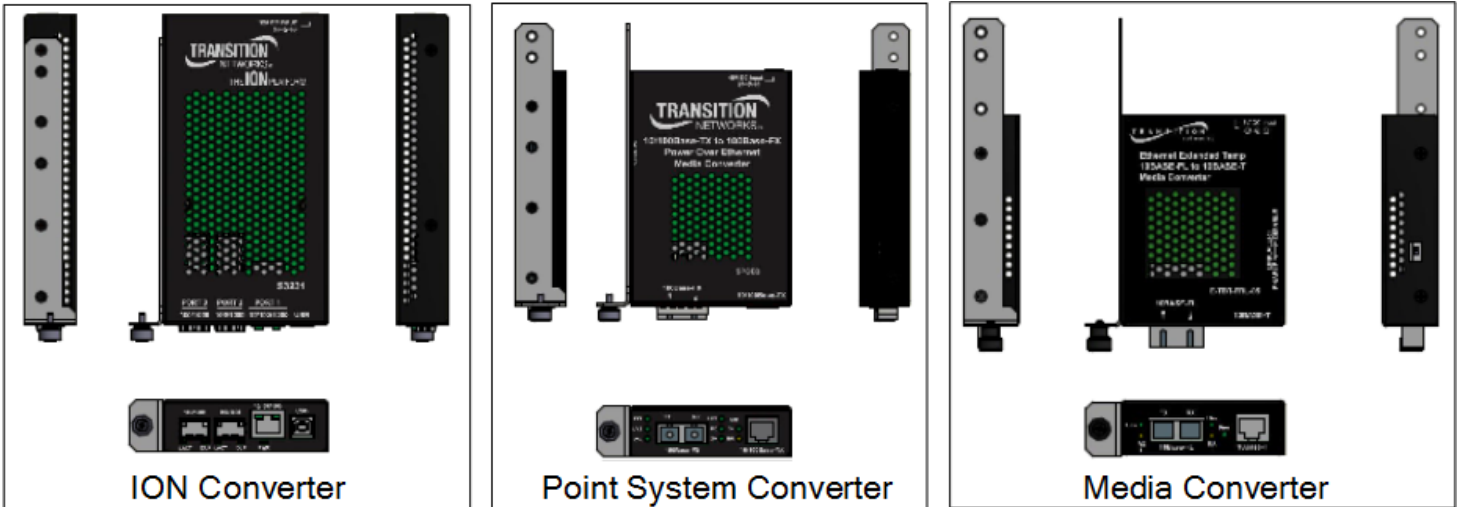
1. Locate four (4) screws (provided) and optional clip-nuts (not provided) for each E-MCR-05 Media Converter Rack.
2. Carefully align the E-MCR-05 at a level position between the rack mounting rails as shown on the next page.
3. Install two (2) screws through the right front bracket and two (2) screws through the left front bracket; use the clip nuts to secure the E-MCR-05 to the rack.



### Install Shelf Support Panel to Media Converter(s)

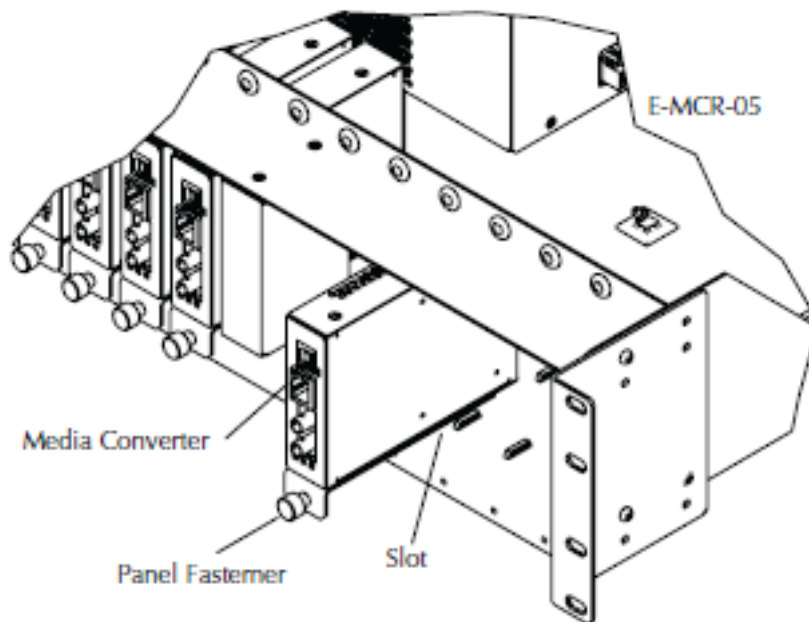
The E-MCR-05 comes with 12 self-support panels that must be mounted to each media converter before it can be installed.

1. Set the media converter on its bottom as shown below.
2. Remove the two (2) screws securing the cover to the media converter.
3. Position the shelf support panel as shown below.
4. Insert the two screws as shown below and tighten to secure to the media converter.





### Install Media Converters into E-MCR-05

1. Position the media converter in the E-MCR-05 as shown below and then carefully slide it into the slot.
2. Tighten the panel fastener located directly under the media converter to secure it to the E-MCR-05.



### Input Power / Fuse Label

Input Power: 110-240 VAC ~,50/60 Hz 3.3Arms Max.	FUSE  4A, 250V	
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**Caution: For continued protection against risk of fire, replace only with same type and rating of fuse : 250V 4A. Disconnect power before replacing fuse.**

**Achtung!: Zum anhaltenden Schutz vor Feurgefahr, Sicherung nur mit einer gleichnamiger Stromstärke und Spannung ersetzen: 250V, 4A**

**Achtung!: Stromleitung ausschalten bevor Sicherung ersetzen!**

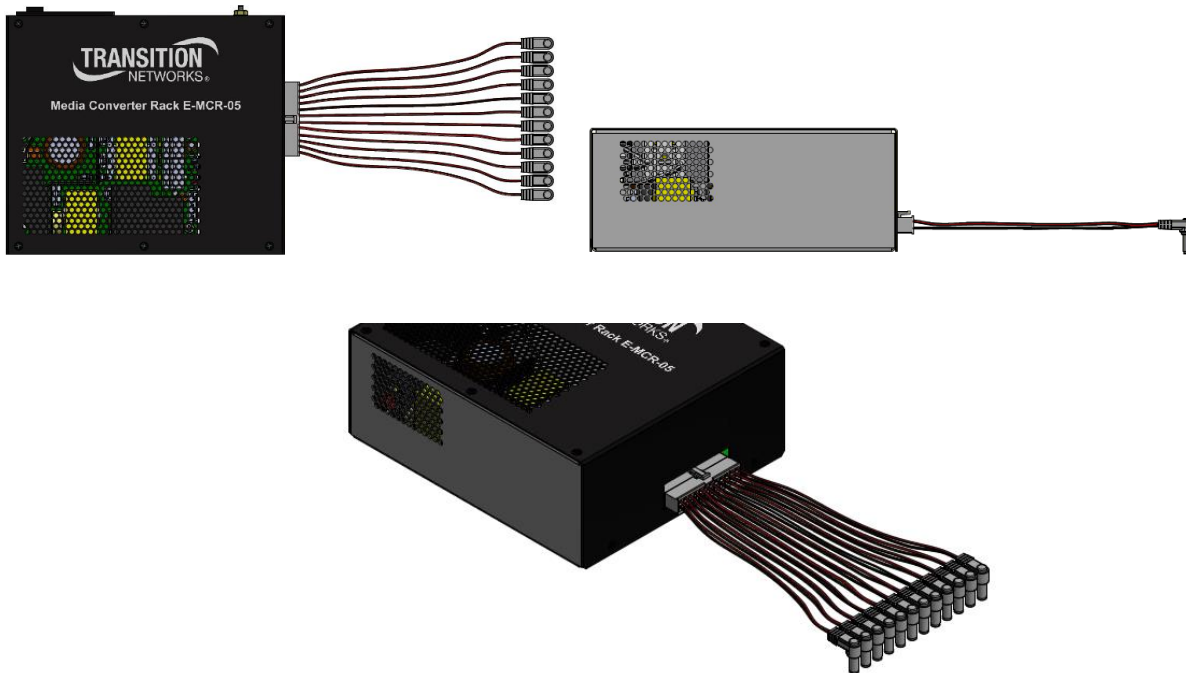
**ATTENTION: Couper le courant avant de replacer le fusible.**

### Connect Power to Media Converters

1. Select a barrel connector end of one power supply cable that is inserted into the harness as shown below.



2. Insert the octopus power supply cable into the media converter as shown below.



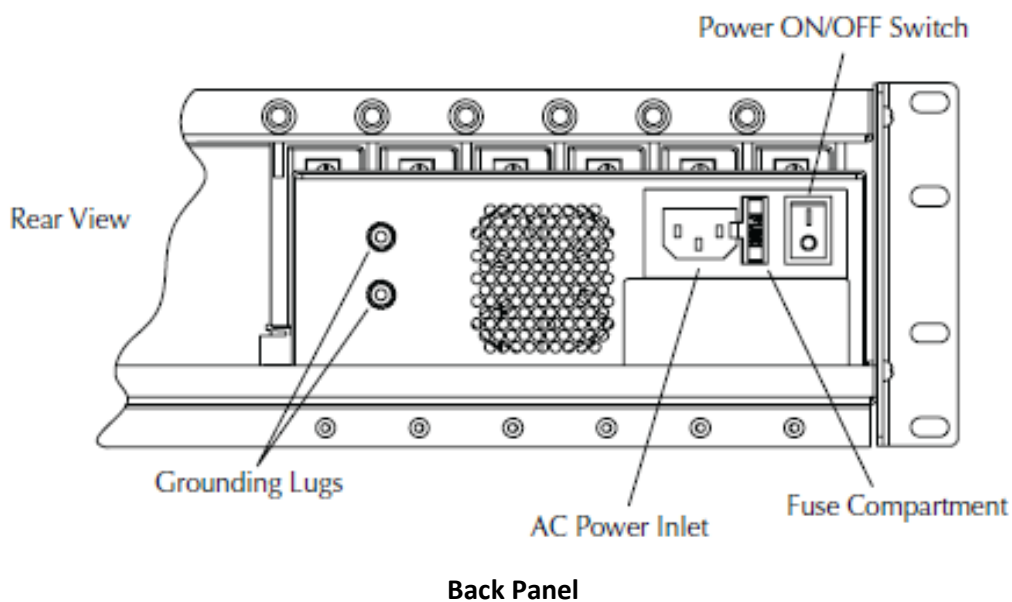
Cable Assembly, 24 Pin-to DC Barrel

## Connect Power to the E-MCR-05

**WARNING:** Make sure that the E-MCR-05 will not overload the circuit used to supply power. See [Technical Specifications](#) on page 8 for current and power maximums.

**WARNING:** Make sure that the E-MCR-05 is properly grounded. Failure to observe this warning could result in an electrical shock.

1. Locate the power cord.
2. Insert the female end of the power cord into the power supply AC power inlet shown below.
3. Insert the other end of the power cord into the AC wall outlet.
4. Press the power ON/OFF rocker switch to the ON position to supply power to E-MCR-05; media converter power LEDs should turn ON.

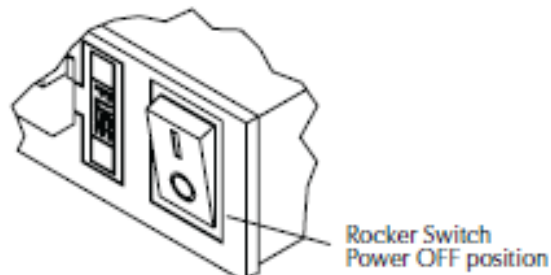


## Maintenance

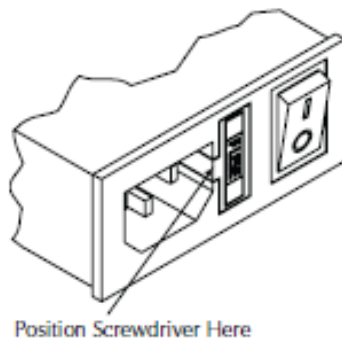
### Replace Fuse

Description: FUSE, 4A, 250V, 5X20MM, FAST-BLO. See [Input Power / Fuse Label](#) on page 5 above.

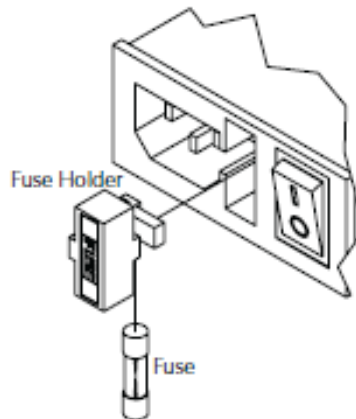
1. Turn the power rocker switch to the OFF position (O) as shown below.



2. Remove the power cord from the power supply of the E-MCR-05.
3. Insert a small flat-blade screwdriver at the fuse holder as shown below and pull or carefully pry outward to dislodge the fuse holder.



4. Remove the fuse from the fuse holder.



5. Install a new 4A fuse "ONLY" into the fuse holder.
6. Install the fuse holder into E-MCR-05.
7. Plug the power cord into the E-MCR-05 AC power inlet.
8. Press the power switch to the ON position (I) and media converter power LEDs should turn ON.

## Technical Specifications

### *E-MCR-05 Specifications*

The E-MCR-05 was designed to meet the following specifications.

Compliance:	UL Listed, cUL Listed (Canada), CISPR/EN55022 Class A, FCC Class A, CE Mark
Dimensions:	Width: 17" [432 mm] x Depth: 15" [381 mm] x Height: 4.725" [120 mm] (2.7U) high
Weight:	12 lbs. [5.2 kg]
Power Requirements:	Ensure that the available power circuits are not overloaded and that the media converter rack is reliably grounded.
Input Voltage:	110 to 240VAC
Input Current:	3.3A maximum (360 watts maximum)
Input Frequency:	50 to 60 Hz
Output Voltage:	12 VDC
Output Current:	630 mA per port maximum
MTBF:	46,000 MIL-HDBK-217F Hours 126,500 Bellcore Hours
Environment:	Operating Temp: 0 to 50°C (32 to 122°F) Humidity: 10 to 90%, non-condensing Altitude: 0 – 10,000 ft.
Warranty:	Lifetime

**Note:** Information in this document was deemed accurate at the time of publication. For the most current information on the E-MCR-05, view the online user guide at <https://www.transition.com/>.



### *Power Supply Specifications*

Power Supply:	Universal, internal power supply; AC 85 – 264V, 47 – 63 Hz.
25077	(PS, 160W, UNIV AC, 12VDC, 3X5X1.25, PFC)



## Compliance Information

### *Declaration of Conformity*

 <b>Declaration of Conformity</b>	
Name of Mfg:	Transition Networks 10900 Red Circle Drive, Minnetonka MN 55343 U.S.A.
Model:	E-MCR-05 Media Converter Rack
Part Number:	E-MCR-05
Regulation:	EMC Directive 2004/108/EC, LVD 2006/95/EC
Purpose:	To declare that the E-MCR-05 to which this declaration refers is in conformity with the following standards.
	EN 55022: 2006 Class A; EN 55024:1998+A1:2001+A2:2003, IEC 60950-1:2005, C-UL Listed, CE Mark
I, the undersigned, hereby declare that the equipment specified above conforms to the above Directive(s) and Standard(s).	
 Stephan Anderson, Vice-President of Engineering	September, 2010 Date

### *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 verantwortlich ist.

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.



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 EGMitgliedstaaten 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.



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.

## **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

**Main Office :** tel: +1.952.941.7600 | toll free: 1.800.526.9267 | fax: 952.941.2322

[sales@transition.com](mailto:sales@transition.com) | [techsupport@transition.com](mailto:techsupport@transition.com) | [customerservice@transition.com](mailto:customerservice@transition.com)

**Address :** Transition Networks | 10900 Red Circle Drive | Minnetonka, MN 55343, U.S.A.

## **Warranty**

### ***Limited Lifetime Warranty***

Effective for Products Shipped May 1, 1999 and After. Every Transition Networks labeled product purchased after May 1, 1999, and not covered by a fixed-duration warranty will be free from defects in material and workmanship for its lifetime. This warranty covers the original user only and is not transferable.

This warranty does not cover damage from accident, acts of God, neglect, contamination, misuse or abnormal conditions of operation or handling, including over-voltage failures caused by use outside of the product's specified rating, or normal wear and tear of mechanical components. If the user is unsure about the proper means of installing or using the equipment, contact Transition Networks' free technical support services.

Transition Networks will, at its option:

- Repair the defective product to functional specification at no charge
- Replace the product with an equivalent functional product
- Refund a portion of purchase price based on a depreciated value

***Return Instructions***

Send the defective product postage and insurance prepaid to the following address:

Transition Networks, Inc.  
 10900 Red Circle Drive  
 Minnetonka, MN 55343 USA  
 Attn: RETURNS DEPT: CRA/RMA # \_\_\_\_\_

Failure to properly protect the product during shipping may void this warranty. The return authorization number must be written on the outside of the carton to ensure its acceptance. We cannot accept delivery of any equipment that is sent to us without a CRA or RMA number.

CRA's are valid for 60 days from the date of issuance. An invoice will be generated for payment on any unit(s) not returned within 60 days.

Upon completion of a demo/ evaluation test period, units must be returned or purchased within 30 days. An invoice will be generated for payment on any unit(s) not returned within 30 days after the demo/ evaluation period has expired.

The customer must pay for the non-compliant product(s) return transportation costs to Transition Networks for evaluation of said product(s) for repair or replacement. Transition Networks will pay for the shipping of the repaired or replaced in-warranty product(s) back to the customer (any and all customs charges, tariffs, or/and taxes are the customer's responsibility).

Before making any non-warranty repair, Transition Networks requires a \$200.00 charge plus actual shipping costs to and from the customer. If the repair is greater than \$200.00, an estimate is issued to the customer for authorization of repair. If no authorization is obtained, or the product is deemed not repairable, Transition Networks will retain the \$200.00 service charge and return the product to the customer not repaired. Non-warranted products that are repaired by Transition Networks for a fee will carry a 180-day limited warranty. All warranty claims are subject to the restrictions and conventions set forth by this document.

Transition Networks reserves the right to charge for all testing and shipping incurred, if after testing, a return is classified as "No Problem Found."

THIS WARRANTY IS YOUR ONLY REMEDY. NO OTHER WARRANTIES, SUCH AS FITNESS FOR A PARTICULAR PURPOSE, ARE EXPRESSED OR IMPLIED. TRANSITION NETWORKS IS NOT LIABLE FOR ANY SPECIAL, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES OR LOSSES, INCLUDING LOSS OF DATA, ARISING FROM ANY CAUSE OR THEORY. AUTHORIZED RESELLERS ARE NOT AUTHORIZED TO EXTEND ANY DIFFERENT WARRANTY ON TRANSITION NETWORKS'S BEHALF.

**Record of Revisions**

Rev	Date	Notes
A	5/12/08	Initial release.
B	9/7/10	Update text and graphics.
C	8/20/19	Update to current build and format.

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