

# Service Interface Module (DS3)

## Model SIM-DS3-RM

### OVERVIEW

The Service Interface Module (SIM) connects to copper facilities for termination and testing of DS3 services. Model SIM-DS3-RM (Figure 1) plugs into an Engenuity SIPP chassis in applications that do not require surge protection.

- Rear located jacks for network equipment connections
- Front located jacks for customer connections and signal monitoring
- Easy installation in an Engenuity SIPP chassis
- Operating temperature range of -40°C to +70°C

### Document Status

Revision 001 of this document adds a block diagram.

### APPLICATION

The SIM-DS3-RM module provides connectivity for DS3 services in central offices, CEVs, or outside plant cabinets. Each module occupies two slots in a SIPP chassis and can be installed in any available position.

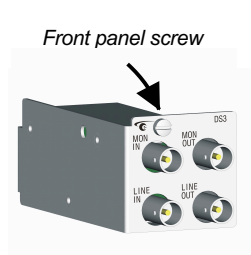
Troubleshooting can be performed through the front located monitor jacks without service interruption. Signal monitoring is provided for both directions of transmission.

The SIM does not provide surge protection for equipment or facilities.

### INSTALLATION

The SIM-DS3-RM occupies two slots in a SIPP chassis. Modules can be placed in any order or combination in available positions of the chassis.

To install a module, insert it into the front of the chassis and slide it back slowly through the card guides. After fully seating the module, tighten the screw on the front of the unit to ensure proper grounding of its front panel to the chassis frame.



### Network Connections

Connect network equipment to the BNC (EQPT) jacks on the rear of the module.

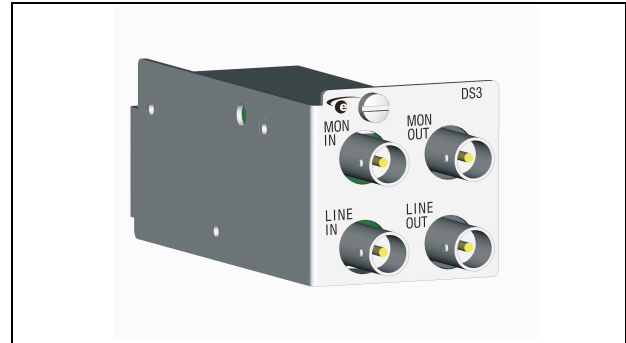


Figure 1. SIM-DS3-RM

**NOTE:** Installations with limited rear access may require cables to be fed through the chassis, from back to front, and attached to the module before inserting it into the mounting. **Be sure to provide adequate cable slack.**

### Line Connections

Connect the customer equipment to the BNC (LINE) jacks on the front of the module.

MODULE CONNECTOR	CONNECT TO
Rear (EQPT)	Network equipment
Front (LINE)	Customer equipment
Front (MON)	Test equipment

### Module Removal

To remove a SIM module, first disconnect cables from the unit. If access is limited, rear cables can be disconnected after the module is removed from the mounting. Loosen the screw on the module's front panel and slowly slide the unit forward out of the chassis, being careful to guide any cables connected to the rear.

### TESTING AND TROUBLESHOOTING

To monitor the line signal in either direction, connect test equipment to the MON jacks on the front of the unit.

To test through a module toward the network equipment, connect test equipment to the LINE jacks on the front of the unit.

To test toward the customer equipment, connect test equipment to the rear jacks of the unit.

## CUSTOMER SERVICE

If technical or customer assistance is required, please contact Engenuity at the following address or phone number:

Engenuity Communications  
 3545 Stern Avenue  
 St. Charles, Illinois 60174  
 Toll Free: 1-800-980-3266  
 Voice: (630) 444-0778  
 www.engenuitycom.com

## WARRANTY & REPAIRS

### Warranty

Engenuity warrants this product for ten (10) years from date of purchase.

The warranty does not cover any losses or damages resulting from shipment, improper installation, abuse, modification, or repair by other than Engenuity personnel.

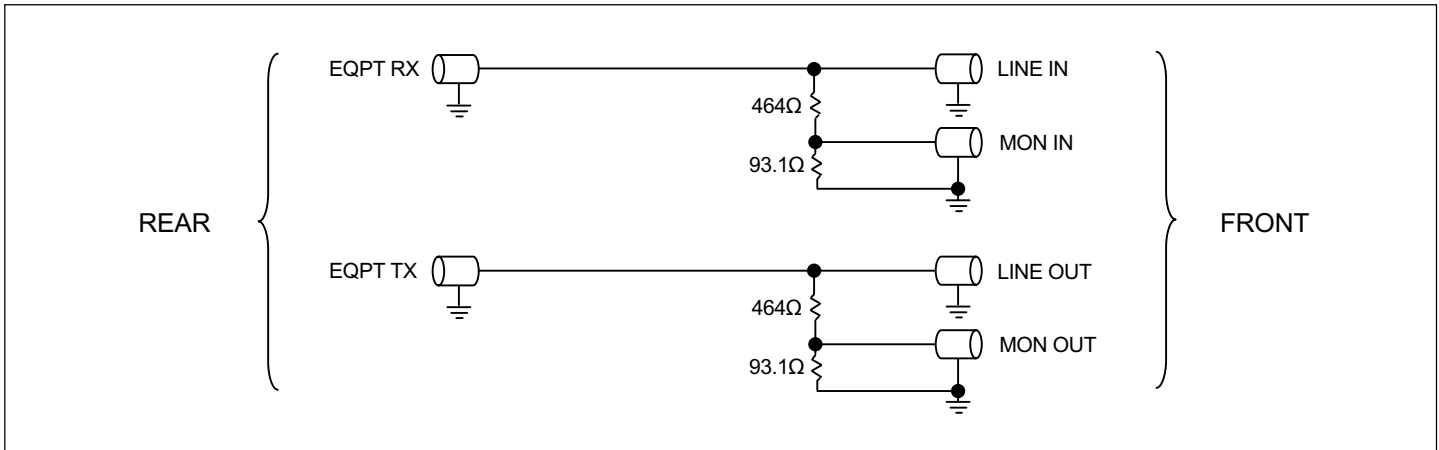
## Repair and Return

Engenuity equipment will be repaired or replaced without cost during the warranty period if the product is defective for any reason other than abuse, improper use, or improper installation. Before returning defective equipment, first request a Return Material Authorization (RMA) number from Engenuity. Once an RMA number is obtained, return the unit, freight prepaid, along with a brief description of the problem, to:

Engenuity Communications  
 3545 Stern Avenue  
 St. Charles, Illinois 60174  
 ATTN: Repair & Return Dept.

Replacements will be shipped in the fastest manner consistent with the urgency of the situation. Repair or replacement of faulty equipment beyond the warranty period is available for a nominal charge. Contact Engenuity for details.

## BLOCK DIAGRAM



## SIM-DS3-RM SPECIFICATIONS

<b>Signal</b>	AMI B3ZS Encoding, 44.736 MHz
<b>Connector</b>	75Ω BNC
<b>Signal Leads</b>	Center pin (shield grounded)
<b>Operating Temperature</b>	-40° C to +70° C
<b>Dimensions</b>	1.7" H x 1.8"W x 4.9"D (occupies two slots in SIPP chassis)
<b>Weight</b>	~ 5 ounces