RTS™ TECHNICAL BULLETIN

RTS-TB-014   **15-May-2013**

Field Replacement of new MADI Back Card and mating with existing MADI Front Card

Issue Severity:	Product(s) Affected:
☐ **High:** URGENT – Immediate Action Required	• MADI Back Cards Deployed in the field prior to 2013
☒ **Medium:** Bosch Security Systems, Inc. strongly recommends you take the action(s) described below.	
☐ **Low:** Advisory	

Notification Applies To:	Access Restrictions:
☒ Technical Support (TSS)	☐ Internal Distribution **ONLY**
☒ Repair (ASA)	☒ **No** Restrictions (Internal & External Distribution)
☒ Sales (NSO / RSO)	

1.0   Issue

In January of 2013 a new version of the MADI Back Card was released. This incorporated features and corrections related to the coax receive level sensitivity, transmit level output, Word Clock detection level and several other enhancements. Customers who had received the original version of the MADI Back Card may desire to replace that Back Card with the newer version being offered. This is particularly valid if the customer has experienced reliability issues with the coax ports on the original MADI cards.

Replacement of the old MADI Back Card in the field with the new design involves 3 basic steps:

1) A firmware update on the MADI Front Card for compatibility with the new MADI Back Card.

2) Changing of the mating key on the MADI Front Card to be compatible with the new MADI Back Card. As part of the introduction of this new card, the mating key was changed so that the MADI mating connectors no longer matched the Tribus card set.

3) Mating of the new MADI Back Card with the field installed Front Card.

2.0 Resolution / Corrective Actions

The MADI Back Card can be replaced with the new card, but the MADI Front Card firmware must also be updated at the same time. The updated firmware is available with AZedit version 4.5.1.
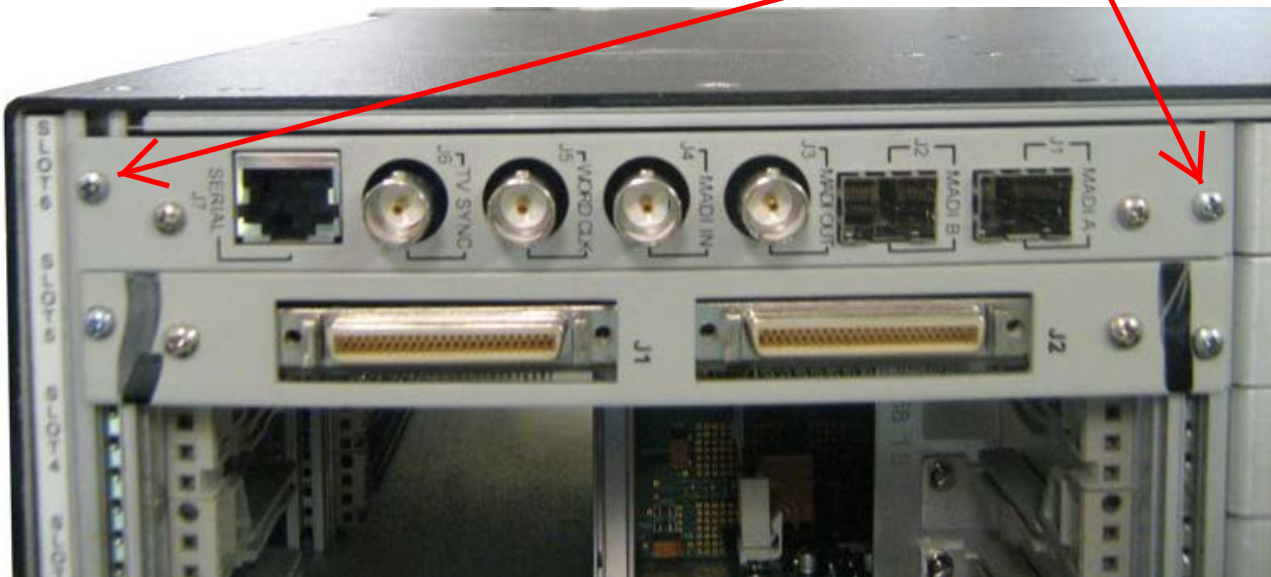
Also, the connector joining the MADI Front Card and the MADI Back Card has been modified. In the center of the connector is a key. This key ensures that dissimilar boards cannot be mated together. The new MADI Back Card has new key to distinguish the card set from the Tribus card set (MADI and Tribus have been sharing the same key alignment). Therefore, before the new MADI Card can be mated with the MADI Front Card, the connector key in the Front Card needs to be replaced.

3.0 Detailed Rework Instructions
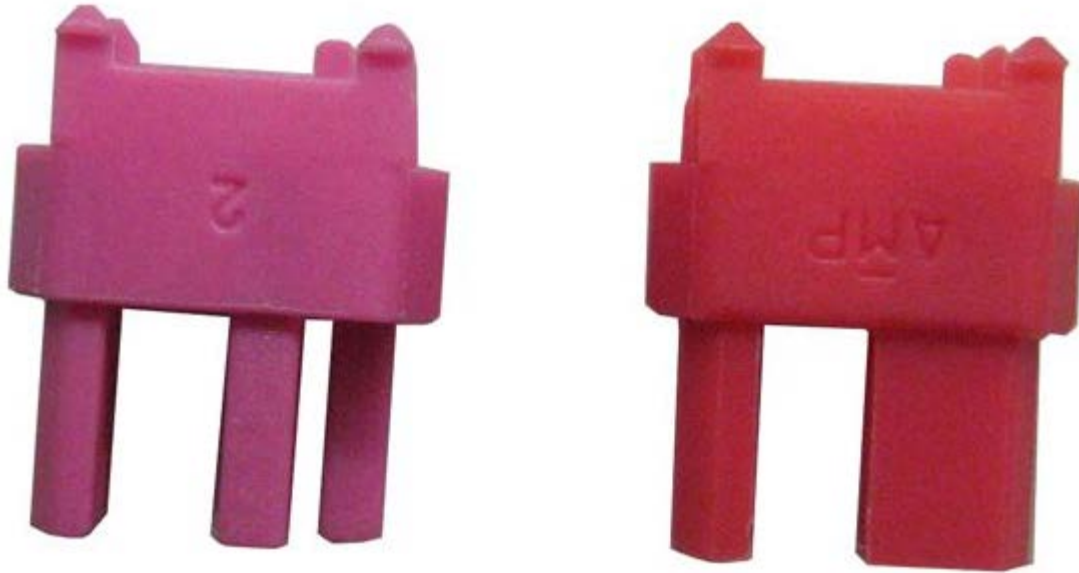
Necessary tools and parts:

- Phillips head screwdriver
- Needle nose pliers
- AZedit version 4.5.1

1. Remove old MADI Back Card from the frame. Remove the mounting screws (2 places) from the MADI Back Mounting Plate.
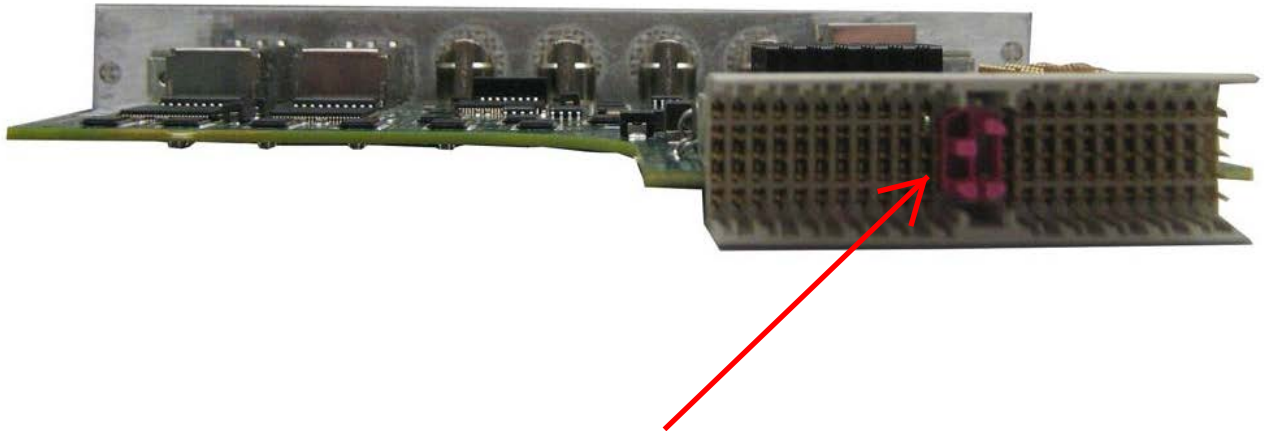

The new MADI Back Card arrives with a new connector key already installed. The new connector key is a different color. The new color is _**violet**_. The color of the old key is red.
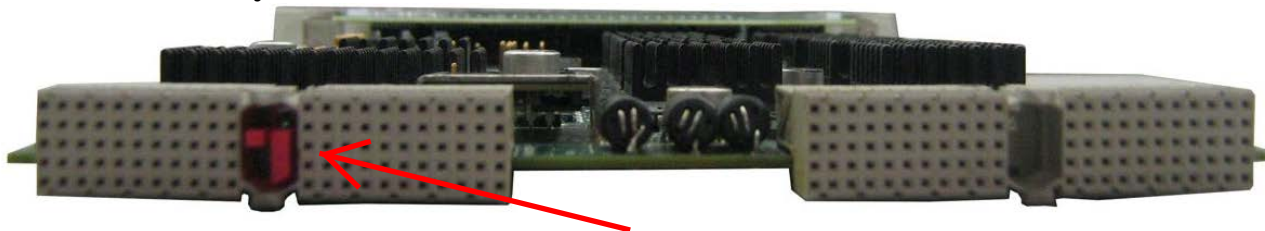
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The left key is the new Heather Violet key. The right key is the old Strawberry Red key.

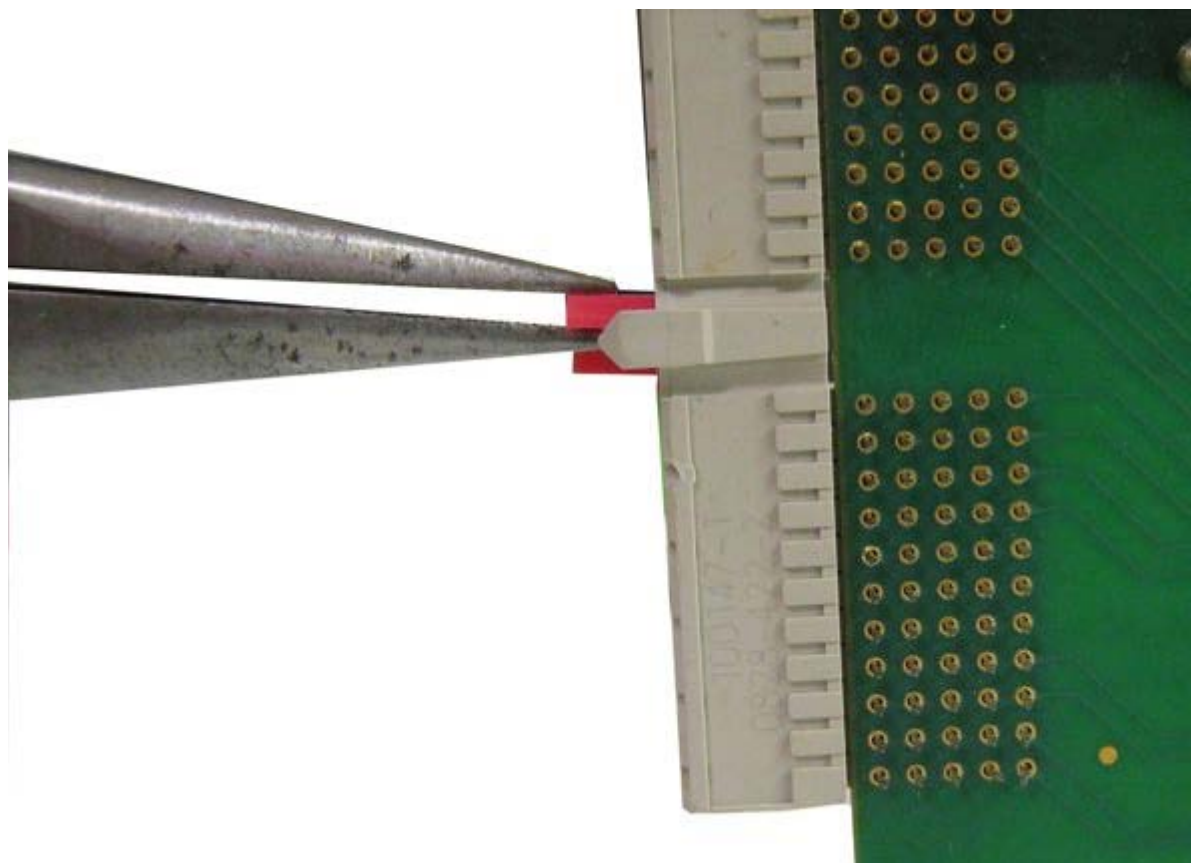Shown below is a MADI Back Card with the new connector key.

2. Remove MADI Front Card from the frame.

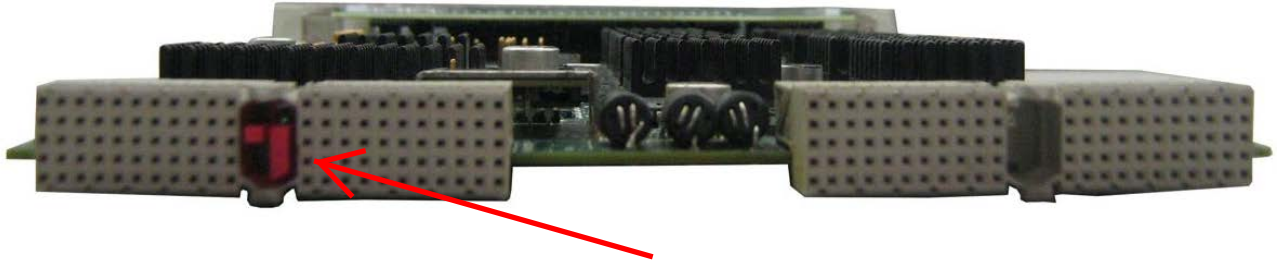The old connector key is shown installed in the MADI Front Card.

3. Using the needle nose pliers, remove the old RED connector key.

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4. Insert the new VIOLET connector key into the MADI Front Card connector. Be sure to follow the proper key orientation. The key is not reversible. The mounting pins on all of the keys are polarized so the key cannot be installed in the wrong location or in the wrong orientation.

5.   Replace the MADI Front Card into the frame.

6. Install the new MADI Back Card into the frame. Use Caution when installing the new MADI Back Card. Make sure that the connectors are aligned so that no pins are bent.

7. Using AZedit version 4.5.1, program the MADI Front Card with the latest version of firmware.