

## TECHNICAL BULLETIN – FRM501 BOARD POSITIONING

This Technical Bulletin addresses a potential overheating issue when loading certain Integrity 500 Series boards into a FRM-501 Chassis Frame. Boards such as the UDC-55x series and the HDFS-55x series generate enough heat during operation that placement of these boards within the FRM-501 frame becomes an important consideration.

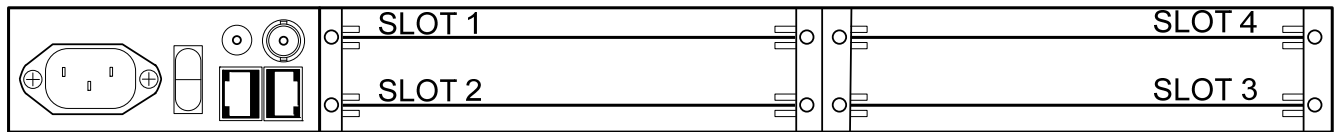


Figure 1. Integrity FRM-501 Chassis Frame (Rear View)

Figure 1 illustrates the rear panel of the FRM-501 frame and numerically identifies the available card slots. Use this illustration and the following guidelines when loading the indicated card combinations into the frame:

- Any time an Audio Synchronizer, such as the DAS-441, is used in conjunction with either a UDC-55x format converter or HDFS-55x frame synchronizer for audio embed/de-embed and processing, the boards **MUST** be installed in the frame such that the DAS is located in slot N+1 position relative to the UDC or HDFS.
- Frame slots 2, 3 and 4 provide the greatest amount of cooling air flow to the installed boards. Since the UDC and HDFS series boards produce more heat than other 400 or 500 series modules, you should not install either of these boards in frame slot 1.
- Based on the previous guidelines, when loading a UDC-55x or HDFS-55x in a FRM-501 with a DAS-441 the UDC or HDFS should **always** be in slot 2 and the DAS-441 in slot 3.
- If a third board is to be loaded into the chassis, it **must** go in slot 4.
- When using a UDC or HDFS board in slot 2, no board should be loaded in slot 1 because of the heat generated by the UDC or HDFS.
- All unused card slots must have a cover plate installed over the rear opening.

Strict adherence to these guidelines when using the indicated board combinations is necessary for proper operation of the Integrity system.

Thank You for choosing QuStream for your signal processing and routing requirements!!