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**SC-2042-RTD**

## Using Modules and Accessories with the SC-2056

This note contains information on the use of various accessories with the SC-2056 board. Refer to Chapter 8, *SC-2056 Board*, of the *SC-205X User Manual*, for information on the signals associated with each connector.

### SC-204X Series Boards

- **SC-2040**

Using the SC-2040 with the SC-2056 is not recommended.

- **SC-2042 and SC-2043-SG**

You can connect up to four SC-2042-RTDs or four SC-2043-SG boards to connectors J4–J7 of the SC-2056. Connectors J4–J7 and J8 share digital signals so you must be careful not to double-drive these shared signals.

Although you can use more than one SC-2042-RTD or SC-2043-SG with a single SC-2056, you can specify only one board when configuring your NI-DAQ driver software with WDAQCONF or the NI-DAQ Control Panel.

When you are using more than one SC-2043-SG with the SC-2056, the board connected to J4 (analog channels 0–15 of the AT-MIO-64E-3) scales data correctly using NI-DAQ but your application program must scale the data in the remaining SC-2043-SG boards.

**Note:** *Do not connect both an SC-2042-RTD and an SC-2043-SG to the SC-2056. Using the SC-2042-RTD requires that you put your DAQ board in differential (DIFF) mode while your SC-2043-SG requires that you put your DAQ board in nonreferenced single-ended (NRSE) mode. Your DAQ board can only operate in one mode at a time so using the SC-2042-RTD and the SC-2043-SG boards simultaneously results in erroneous data from one of the boards.*

### SC-206X Series Boards

You can connect the SC-2060, SC-2061, or SC-2062 to connector J8 of the SC-2056. Connectors J4–J7 and J8 share digital signals so you must be careful not to double-drive these shared signals.

### SC-207X Series Breadboards

You can connect the SC-2070 or SC-2072 to connectors J4–J7 of the SC-2056. Connectors J9–J13 and J4–J7 share analog signals so you must be careful not to double-drive these shared signals.

## SSR Series Modules

You can connect the SSR Series modules and the eight-channel SSR backplane to connector J8 of the SC-2056. Connectors J4–J7 and J8 share digital signals so you must be careful not to double-drive these shared signals.

## 5B Series Modules

You can connect the 5B Series modules and backplane to connectors J9–J13 of the SC-2056. Connectors J9–J13 and J4–J7 share analog signals so you must be careful not to double-drive these shared signals.

## AMUX-64T Board

Using the AMUX-64T with the SC-2056 is not recommended.

## BNC-208X Series Adapter Boards

- **BNC-2080**

You can connect the BNC-2080 to connectors J4–J7 of the SC-2056. Connectors J4–J7 and J9–J13 share analog signals so you must be careful not to double-drive these shared signals.

- **BNC-2081 and BNC-2082**

The BNC-2081 and BNC-2082 are not compatible with the SC-2056 and should not be used.

## CB-50 Connector Block

You can connect the CB-50 to connectors J4–J7 of the SC-2056. Connectors J4–J7 and J8 share digital signals so you must be careful not to double-drive these shared signals.

## SCB Connector Blocks

- **SCB-68**

You can connect the SCB-68 to connectors J4–J7 of the SC-2056 with the appropriate cable and adapter. Connectors J4–J7 and J8 share digital signals so you must be careful not to double-drive these shared signals.

- **SCB-100**

You can connect the SCB-100 to connectors J4–J7 of the SC-2056 with the appropriate cable and adapter. Connectors J4–J7 and J8 share digital signals so you must be careful not to double-drive these shared signals.