COMPREHENSIVE SERVICES

We offer competitive repair and calibration services, as well as easily accessible documentation and free downloadable resources.

SELL YOUR SURPLUS

We buy new, used, decommissioned, and surplus parts from every NI series. We work out the best solution to suit your individual needs.

Sell For Cash Get Credit Receive a Trade-In Deal

OBSOLETE NI HARDWARE IN STOCK & READY TO SHIP

We stock **New, New Surplus, Refurbished,** and **Reconditioned** NI Hardware.

APEX WAVES

Bridging the gap *between the manufacturer and your legacy test system.*

1-800-915-6216

www.apexwaves.com

sales@apexwaves.com

Request a Quote CLICK HERE *SC-2043-SG*

NATIONAL INSTRUMENTS®
The Software is the Instrument®

Note to Users

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.