

# SCXI™-1362 Low-Voltage Backplane Adapter Kit

This guide shows how to unpack, install, and clean your SCXI-1362 low-voltage backplane adapter kit. With the SCXI-1362 adapter kit, you can connect your DMM to an SCXI module or create a multichassis low-voltage backplane.

You can make the following connections using your SCXI-1362 kit:

- Use the LV8-BAN4 cable to connect a DMM to the low-voltage analog bus (LVAB).
- Use the SH9MD-9MD cable to connect the digital communication signals from the DMM to the AUX IN connector.
- In multichassis configurations, use the LV8-LV8 cable to extend the LVAB to the next chassis.

## Checking Your SCXI-1362 Adapter Kit Contents

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Make sure your SCXI-1362 kit includes the following components:

- One SCXI-1362 adapter
- One SH9MD-9MD cable (round, 9-pin DIN connector)
- One LV8-BAN4 cable (not in the multichassis kit)
- One LV8-LV8 cable (only in the multichassis kit)
- Two small screws

If you ordered only the SCXI-1362 adapter, your kit includes the backplane adapter, but no cables.

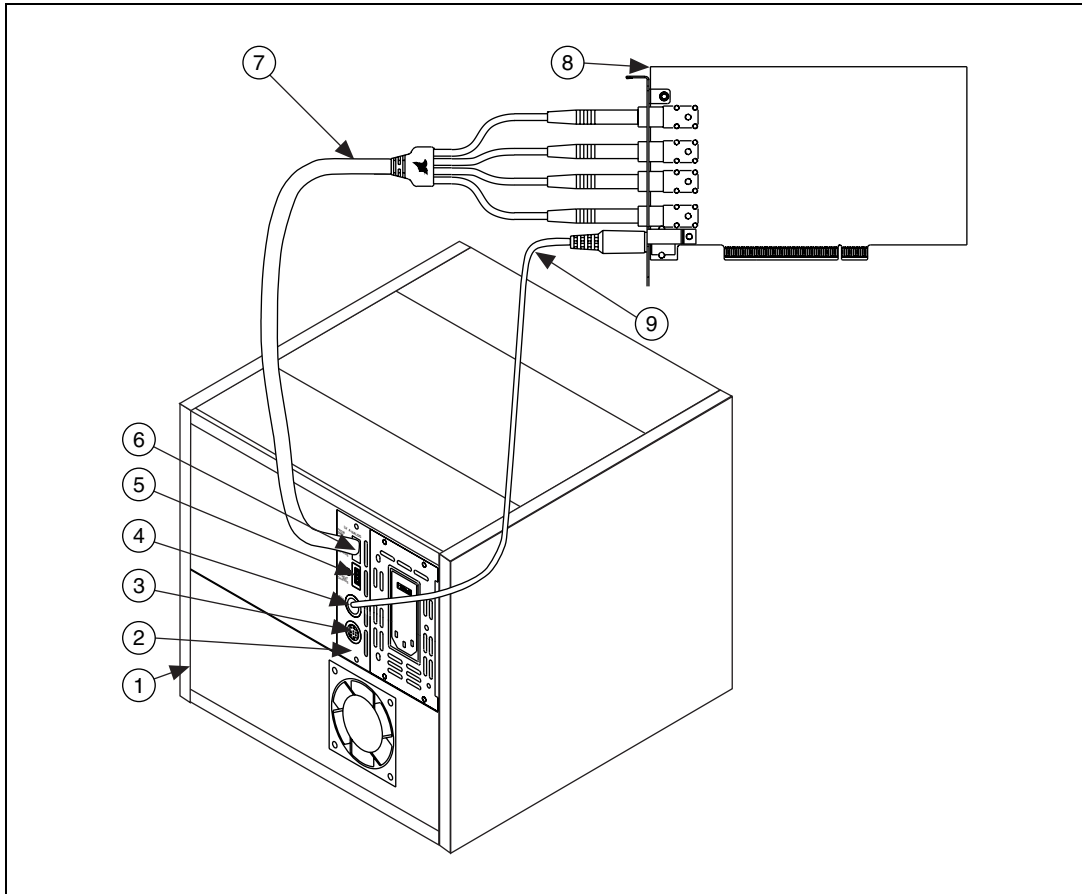
You will need to provide these items:

- SCXI chassis

- ❑ SCXI modules
- ❑ DMM/SCXI controller
- ❑ Screwdriver

## Installing Your SCXI-1362 Kit

Figure 1 shows the components of your SCXI system and how to connect them.



- |                             |                                               |
|-----------------------------|-----------------------------------------------|
| 1 SCXI Chassis              | 6 FROM DMM OR PREVIOUS CHASSIS Connector      |
| 2 SCXI-1362 Adapter         | 7 LV8-BAN4 Cable                              |
| 3 AUX OUT Connector         | 8 DMM/SCXI Controller (NI 4060 for PCI Shown) |
| 4 AUX IN Connector          | 9 SH9MD-9MD Cable                             |
| 5 TO NEXT CHASSIS Connector |                                               |

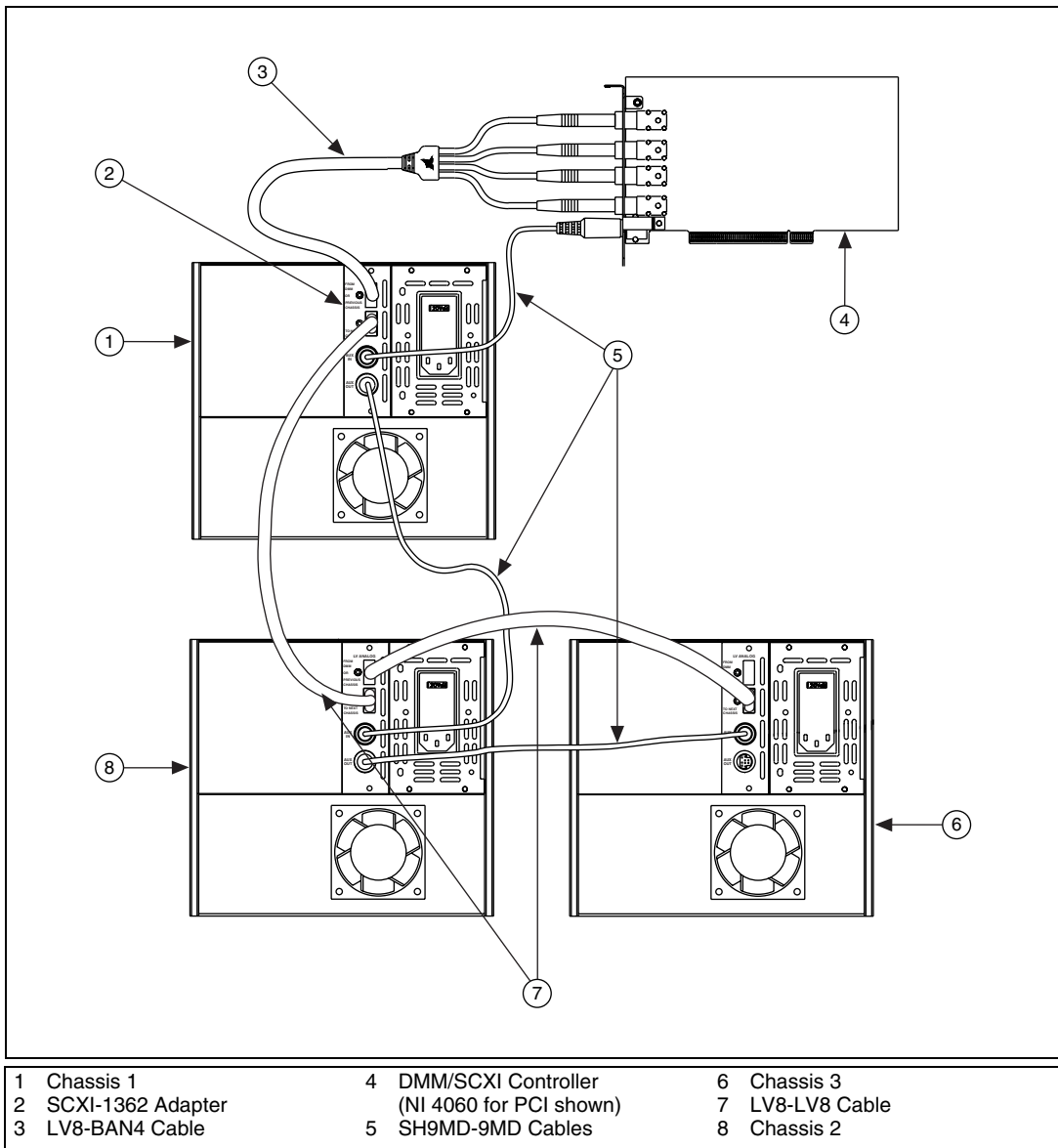
**Figure 1.** Installing Your SCXI-1362 Kit

Perform the following steps to install the SCXI-1362 kit:

1. Power off your computer and SCXI chassis.
2. Install your SCXI modules in the SCXI chassis following the instructions in your module user manuals. When installed, the back of the SCXI module does not quite touch the back of the SCXI chassis.
3. Install your SCXI-1362 adapter onto the rear of the SCXI module. When installed, the SCXI-1362 adapter will be flush with the back of the SCXI chassis.
4. Using the two screws included in your kit, secure the SCXI-1362 adapter board into the threaded strips in the rear of the SCXI chassis.
5. Connect one end of the SH9MD-9MD cable to the AUX IN connector of the SCXI-1362 adapter. Connect the other end of the cable to the AUX I/O connector of the DMM/SCXI controller.
6. Connect the LV8-BAN4 cable to the FROM DMM connector on the adapter panel and secure the screw.
7. Connect the end of the LV8-BAN4 cable with the four banana plugs to the banana jacks located on your DMM/SCXI controller, as shown in Figure 1.
8. To add a second chassis, connect one end of the LV8-LV8 cable to the TO NEXT CHASSIS connector on the adapter panel of chassis 1 and secure the screw, as shown in Figure 2.
9. Connect the other end of the cable to the TO NEXT CHASSIS connector on the adapter panel of chassis 2 and secure the screw, as shown in Figure 2.
10. To add a third chassis, connect one end of the LV8-LV8 cable to the PREVIOUS CHASSIS connector on the adapter panel of chassis 2 and secure the screw, as shown in Figure 2.
11. Connect the other end of the cable to the TO NEXT CHASSIS connector on the adapter panel of chassis 3 and secure the screw, as shown in Figure 2.



**Note** If using an NI 4021 (SCXI controller), the LV8-BAN4 cable is not necessary since the NI 4021 supplies only digital communications.



**Figure 2.** Installing Your SCXI-1362 in a Multichassis System

# Specifications

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All specifications are typical at 25 °C unless otherwise specified.

## Safety

Evaluated to EN 61010-1 A-2:1995

## Electromagnetic Compatibility

EMC/EMI..... CE, C-Tick and FCC Part 15  
(Class A) Compliant

Electrical Emissions..... EN 55011 Class A at 10 m;  
FCC Part 15A above 1 GHz

Electrical Immunity..... Evaluated to EN 61326:1998,  
Table 1



**Note** This device should only be operated with shielded cabling for full EMC and EMI compliance. See the Declaration of Conformity for this product for any additional regulatory compliance information.

## Cleaning

To remove light dust, use a soft, nonmetallic brush. To remove other contaminants, use deionized water and a stiff nonmetallic brush. The unit must be completely dry and free from contaminants before returning to service.