



SCXI-1340 Cable Assembly Installation Guide

Part Number 320614-01

This guide describes how to install the SCXI-1340 cable assembly between an SCXI module and a data acquisition board. In addition to the SCXI-1340 kit contents, you will also need an SCXI chassis, an SCXI module, a computer, a data acquisition board, and a small flathead screwdriver.

Introduction

With the SCXI-1340 cable assembly, you can connect your SCXI module to your data acquisition board. The following table shows which SCXI modules and data acquisition boards you can cable together with the SCXI-1340 cable assembly:

Module	Data Acquisition Board								
	AT-MIO-16	AT-MIO-16F-5	AT-MIO-16X	MC-DIO-24	MC-MIO-16	NB-DIO-24	NB-MIO-16	NB-MIO-16X	PC-DIO-24
SCXI-1100	√	√	√		√		√	√	
SCXI-1120	√	√	√		√		√	√	
SCXI-1121	√	√	√		√		√	√	
SCXI-1140	√	√	√		√		√	√	
SCXI-1160	√	√	√	√	√	√	√	√	√
SCXI-1161	√	√	√	√	√	√	√	√	√
SCXI-1162	√	√	√	√	√	√	√	√	√
SCXI-1163	√	√	√	√	√	√	√	√	√

If you have a newly released module or data acquisition board that is not listed in this table, contact National Instruments for information on your cable needs.

You can use the SCXI-1340 to connect the SCXI-1181 breadboard module or the SCXI-1180 feedthrough panel to any data acquisition board that has a 50-pin ribbon cable connector.

The SCXI-1340 cable assembly consists of a 50-conductor ribbon cable with a mounting bracket at one end and a 50-pin female connector at the other end. The female connector connects to the

I/O connector of a plug-in data acquisition board. Attached to the mounting bracket is a 50-pin female mounting bracket connector that connects to the rear signal connector of your SCXI module. To extend the signals of the plug-in board to another module, you can use the male breakout connector that is near the mounting bracket on the ribbon cable. All 50 pins from the plug-in board go straight through to the rear signal connector.

What Your Kit Should Contain

The contents of the SCXI-1340 cable assembly kit are as follows:

Kit Name and Part Number	Component	Cable Assembly Part Number
SCXI-1340 (776574-40)	Cable assembly Two small screws <i>SCXI-1340 Cable Assembly Installation Guide</i>	181782-01 742413-01 320614-01

If your kit is missing any of the components, contact National Instruments.

Installation Procedure

Figure 1 illustrates the components of your SCXI system.

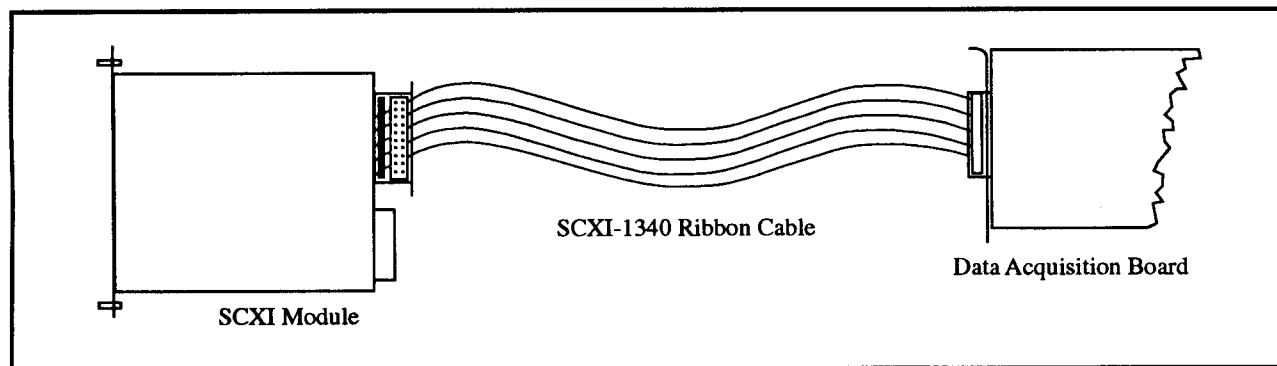


Figure 1. Connecting the SCXI-1340 to Your Data Acquisition Board and SCXI Module

Perform the following steps to install the SCXI-1340 cable:

1. Turn off the power to your computer and the SCXI chassis.
2. Install your SCXI module in the SCXI chassis, following the instructions in your module user manual.
3. Plug the mounting bracket connector of the SCXI-1340 into the rear signal connector of the SCXI module.

- Secure the SCXI-1340 mounting bracket by screwing the two screws through the rear panel of the mounting bracket and into the threaded strips in the rear of the SCXI chassis.
- Install your data acquisition board in a slot in your computer, following the instructions in your data acquisition board user manual.
- Connect the loose end of the SCXI-1340 cable to the I/O connector on the data acquisition board as shown in Figure 2. The SCXI-1340 makes a pin-to-pin connection from the mounting bracket connector to the breakout connector and the connector at the loose end of the cable.

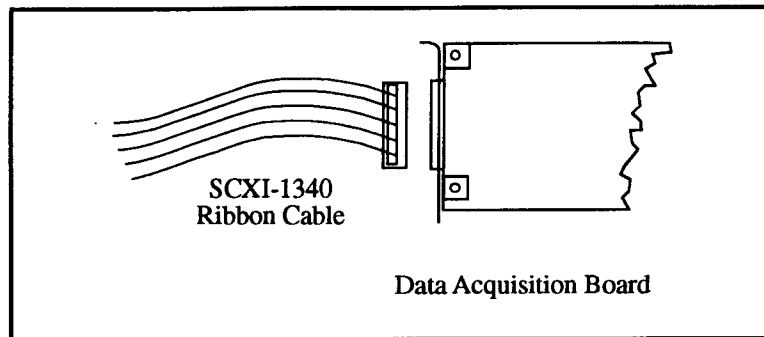


Figure 2. Cable to I/O Connector Connection

Note: In most cases, all of the SCXI modules in the chassis will operate in multiplexed mode and will communicate with the plug-in board over a single SCXI-1340 cable.

The finished installation should look like Figure 3.

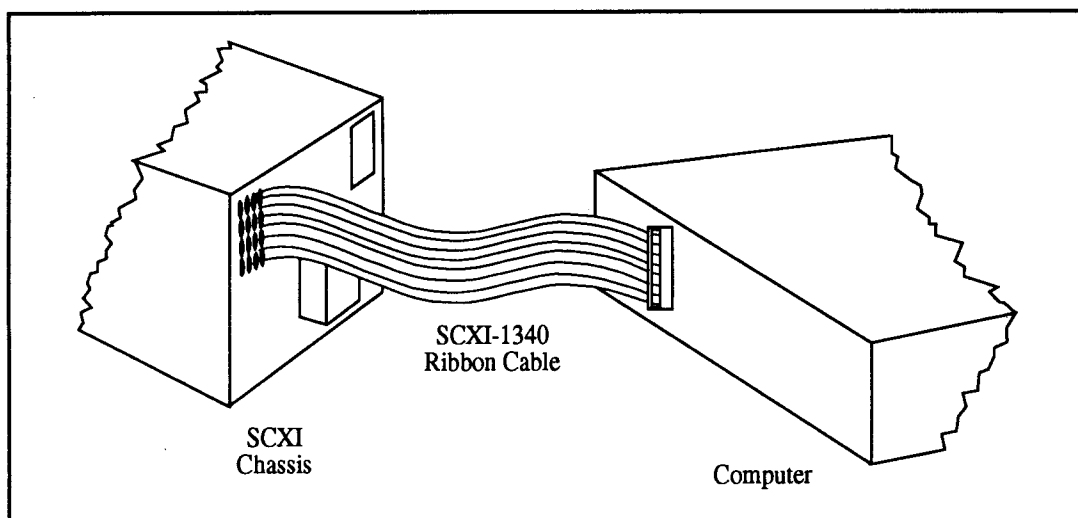


Figure 3. Installed Cable