
SCXI-1354 Cable Assembly for the DAQCard™-1200

This guide describes how to install the SCXI-1354 cable assembly between an SCXI module and a DAQCard-1200.

Introduction

The SCXI-1354 cable assembly consists of a 50-pin PR50-50F ribbon cable and an SCXI-1341 adapter board. The ribbon cable connects the DAQCard-1200 I/O connector to the SCXI-1341 adapter board rear connector, which has latches. The adapter board has a female right-angle module connector that plugs into the rear of the SCXI module. In addition, the SCXI-1341 has an extra male breakout connector that provides the unmodified signals of the DAQCard-1200 for use with other accessories. For example, you can connect this male breakout connector to an SCXI-1180 feedthrough panel to bring the DAQCard-1200 pinout to the front of your SCXI chassis.

What You Need to Get Started

To set up and use your SCXI-1354 cable assembly, you will need the following:

- SCXI-1354 Cable Assembly for the DAQCard-1200 Installation Guide*
- SCXI-1341 adapter board and two small screws
- 1.0 m PR50-50F cable
- SCXI-1000, SCXI-1000DC, or SCXI-1001 chassis
- SCXI-1100, SCXI-1120, SCXI-1121, SCXI-1122, SCXI-1124, SCXI-1140, SCXI-1141, SCXI-1160, SCXI-1161, SCXI-1162, SCXI-1162HV, SCXI-1163, or SCXI-1163R module.
If you have a newly released module that is not in this list, contact National Instruments for information on your cable needs.
- DAQCard-1200
- Small flathead screwdriver
- Your computer

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Installation

Figure 1 illustrates the configuration of the SCXI-1354 cable assembly.

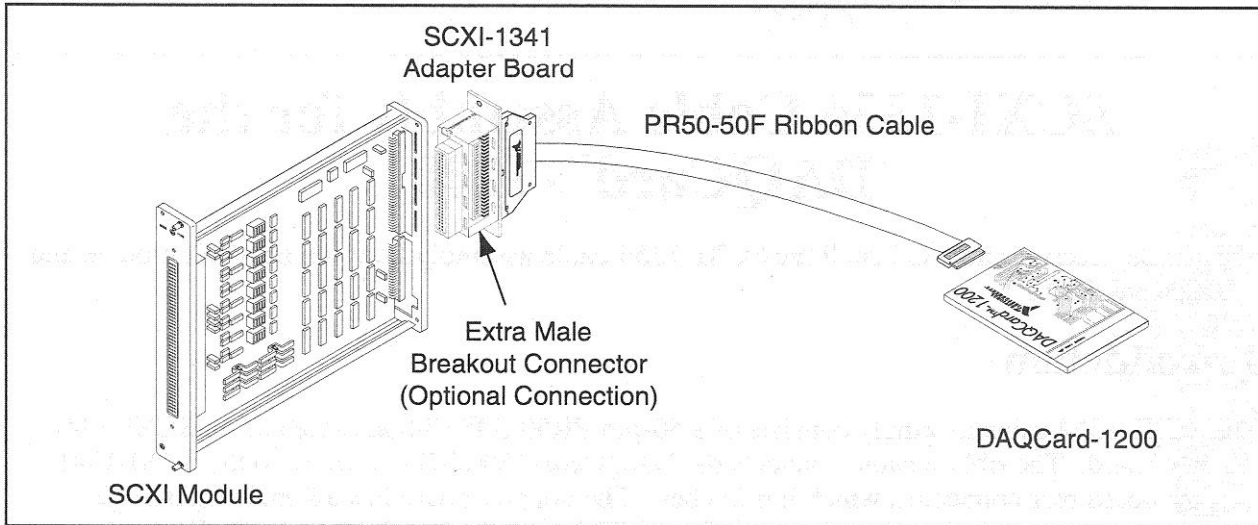


Figure 1. Connecting Your DAQCard-1200 and SCXI Module

Perform the following steps to connect your DAQCard-1200 and SCXI-module:

1. Turn off the power to your computer and the SCXI chassis.
2. Install your module in the chassis, following the instructions in your module user manual.
3. Set jumper W1 on the SCXI-1341 adapter board. Figure 2 shows the two possible jumper settings. In position A, the factory-default position, jumper W1 connects pin 43 of the DAQCard-1200 to pin 46 of the module connector. Position B breaks this connection. Leave jumper W1 in factory-default position unless you are using an SCXI-1140 module and are not supplying the HOLDTRIG signal to the module from the DAQCard-1200. See your *SCXI-1140 User Manual* for an explanation of the HOLDTRIG signal.

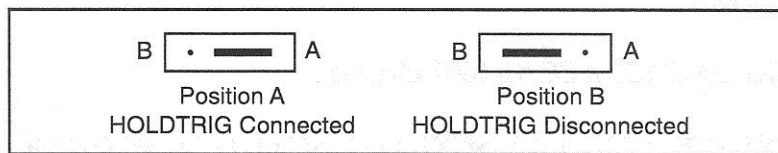


Figure 2. Jumper W1 Settings

4. Plug the female right-angle module connector of the SCXI-1341 adapter board into the rear signal connector of the SCXI module.
5. Secure the SCXI-1341 adapter board by screwing the two screws through the rear panel of the adapter board and into the threaded strips in the rear of the SCXI chassis.
6. Install your DAQCard-1200 into a PCMCIA slot in your computer and connect the small end of the PR50-50F cable to the I/O connector of the DAQCard-1200.
7. Connect the large end of the PR50-50F cable to the rear connector of the SCXI-1341.

SCXI-1354 Pin Translations

The following table lists the way that the SCXI-1354 cable assembly translates pins from the DAQCard-1200 50-pin I/O connector to the SCXI module.

Rear Connector Pin	DAQCard-1200 Signal Name	Male Breakout Connector Pin	Module Connector Pin
1	ACH0	1	3
2	ACH1	2	5
3	ACH2	3	7
4	ACH3	4	9
5	ACH4	5	11
6	ACH5	6	13
7	ACH6	7	15
8	ACH7	8	17
9	AISENSE/AIGND	9	1, 2
10	DAC0OUT	10	20
11	AGND	11	23
12	DAC1OUT	12	21
13	DGND	13	24, 33
14	PA0	14	Not connected
15	PA1	15	Not connected
16	PA2	16	Not connected
17	PA3	17	Not connected
18	PA4	18	Not connected
19	PA5	19	Not connected
20	PA6	20	Not connected
21	PA7	21	Not connected
22	PB0	22	Not connected
23	PB1	23	Not connected
24	PB2	24	Not connected
25	PB3	25	Not connected
26	PB4	26	25
27	PB5	27	27
28	PB6	28	29
29	PB7	29	37
30	PC0	30	Not connected
31	PC1	31	26
32	PC2	32	28
33	PC3	33	Not connected
34	PC4	34	Not connected
35	PC5	35	Not connected
36	PC6	36	Not connected
37	PC7	37	Not connected
38	EXTTRIG	38	Not connected
39	EXTUPDATE*	39	Not connected
40	EXTCONV*	40	36
41	OUTB0	41	Not connected
42	GATB0	42	Not connected
43	OUTB1	43	46
44	GATB1	44	Not connected
45	CLKB1	45	Not connected
46	OUTB2	46	Not connected
47	GATB2	47	Not connected
48	CLKB2	48	Not connected
49	+5 V	49	34, 35
50	DGND	50	24, 33



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