



NATIONAL INSTRUMENTS USB-1357 NI USB Switch Mainframe User Guide

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NATIONAL INSTRUMENTS USB-1357 NI USB Switch Mainframe



Product Information

The USB-1357 is a switch mainframe manufactured by NI (National Instruments). It is designed to work with SCXI switches and is based on the NI SCXI-1000/1001 chassis and the NI USB-1357/1358/1359 SCXI Controller/Adapter Kit. The mainframe is preassembled for plug-and-play functionality. Before using the USB-1357, it is necessary to install the driver software. Please refer to the NI Switches Getting Started Guide for detailed instructions on installing the driver software.

Product Usage Instructions

1. Power off and unplug the SCXI chassis. Ensure you are grounded to prevent ESD (Electrostatic Discharge) damage.
2. Touch any metal part of your chassis to discharge static electricity.
3. Insert a switch module with a 10-pin rear connector into the rightmost slot of the NI USB switch mainframe. Refer to Table 1 in the NI Switches Getting Started Guide to determine if your switch module has a 10-pin rear connector. Note: It is crucial to install an SCXI switch module with a 10-pin rear connector in the rightmost slot; otherwise, you won't be able to control any switch modules in the chassis.
4. Insert any remaining switch modules into the unused slots in the chassis.
5. Power on the chassis. Note: Power on the chassis before connecting the USB-1359 to your computer to allow for auto-detection and auto-creation of the chassis in MAX (Measurement & Automation Explorer).
6. Connect one end of the USB cable to the USB-1359 and the other end to a USB hub or a USB port on your computer.
7. Refer to the NI Switches Getting Started Guide for instructions on configuring the switch modules.

Installation Information

This document describes how to install SCXI switches in the NI USB switch mainframe. The NI USB switch mainframe is based on the NI SCXI-1000/1001 chassis and the NI USB-1357/1358/1359 SCXI Controller/Adapter Kit. Components from both the chassis and the kit have been preassembled to create a plug-and-play NI USB switch mainframe. Before using the NI USB switch mainframe, the driver software must be installed. Refer to the NI Switches Getting Started Guide for more information about installing driver software.

Installing Switch Modules

Complete the following steps to install SCXI switch modules in the NI USB switch mainframe.

1. Power off and unplug the SCXI chassis. Follow proper ESD precautions to ensure you are grounded before installing the hardware.
2. Touch any metal part of your chassis to discharge static electricity.
3. Insert a switch module with a 10-pin rear connector into the rightmost slot of the NI USB switch mainframe to control the switch modules in the chassis. Refer to Table 1 in the NI Switches Getting Started Guide to determine if your switch module has a 10-pin rear connector.

Note If you do not install an SCXI switch module with a 10-pin rear connector into the rightmost slot of the NI USB switch mainframe, you will not be able to control any of the switch modules in the chassis.

4. Insert any remaining switch modules into the unused slots in the chassis.
5. Power on the chassis.

Note Power on the chassis before you connect the USB-1359 to your computer to auto-detect the USB-1359 and auto-create the chassis in MAX.

6. Connect one end of the USB cable to the USB-1359 and the other to a USB hub or a USB port on your computer.
7. Refer to the NI Switches Getting Started Guide to configure the switch modules.

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Documents / Resources



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References

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[Manuals+](#).