
PXI-2548

Features

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Contents

PXI-2548 Overview 3

PXI-2548 Overview

PXI-2548 Pinout

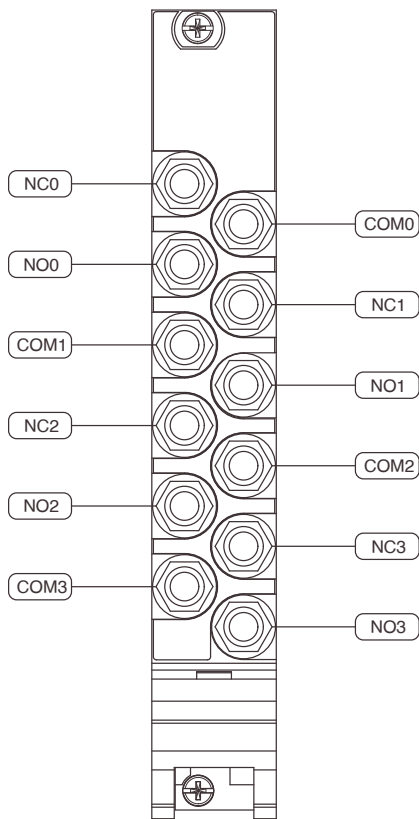
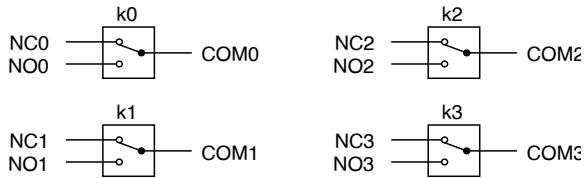


Table 1. Signal Descriptions

Signal	Description
COM x	Routing destination for corresponding signal connections
NC x	Normally closed signal connection
NO x	Normally open signal connection

PXI-2548 Hardware Diagram

This figure shows the hardware diagram of the module.

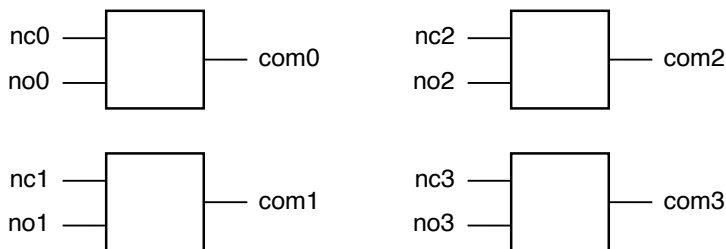


PXI-2548 Topology

This figure describes the topology of the module.

Module software name: 2548/4-SPDT (NISWITCH_TOPOLOGY_2548_4_SPDT)

Quad SPDT Multiplexer



Making a Connection

Call the `niSwitch Connect Channels VI` or the `niSwitch_Connect` function to connect channels in this topology. If applicable, you must call the `niSwitch Disconnect Channels VI` or the `niSwitch_Disconnect` function to disconnect an existing connection before you call the `niSwitch Connect Channels VI` or the `niSwitch_Connect` function.



Note The `niSwitch Disconnect Channels VI` or the `niSwitch_Disconnect` function does not operate the relay until the next

niSwitch Connect Channels VI or the next `niSwitch_Connect` function is executed. Thus, one channel is always connected to each common channel. If you have reset the module or called the niSwitch Disconnect All Channels VI or the `niSwitch_DisconnectAll` function, you do not need to disconnect the default channel (NC x) from COM x upon initial connection.

The following sequence of tasks illustrates the VI/function calls necessary to make consecutive connections—one between NO 1 and COM1 and the other between NC 1 and COM1:

1. Call the niSwitch Connect Channels VI or the `niSwitch_Connect` function with parameters `no1` and `com1`.
2. Call the niSwitch Disconnect Channels VI or the `niSwitch_Disconnect` function with parameters `no1` and `com1`.
3. Call the niSwitch Connect Channels VI or the `niSwitch_Connect` function with parameters `nc1` and `com1`.

When scanning the module, a typical scan list entry might be `no1->com1;`. This entry routes the signal connected to NO 1 to COM 1.