

---

# PXI-2559

# Features

---

2025-03-20

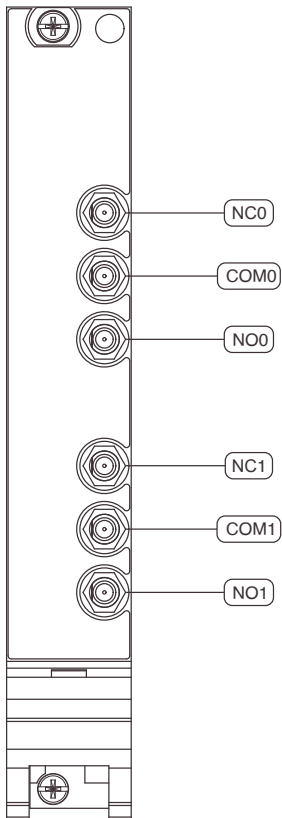


# Contents

PXI-2559 Overview ..... 3

# PXI-2559 Overview

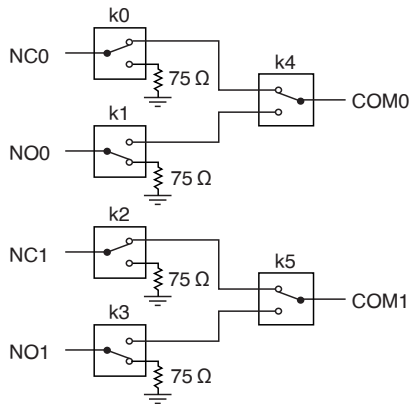
## PXI-2559 Pinout



**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-2559 Hardware Diagram



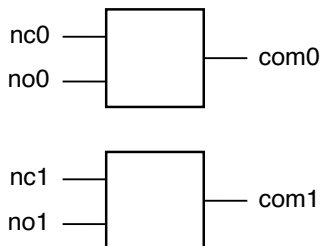
## PXI-2559 Topology

Module software name: 2559/Terminated 2-SPDT  
(NISWITCH\_TOPOLOGY\_2559\_TERMINATED\_2\_SPDT)



**Notice** The terminators on the module are rated for 1.5 W at 25 °C. When operating at ambient temperatures greater than 25 °C, a termination power derating applies. Refer the ***PXI-2559 Specifications*** for more information about termination power derating. Terminators cannot withstand the full rated power of the module

## Dual 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.