PXI-2557 Features

2025-03-20

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PXI-2557 Overview

PXI-2557 Pinout

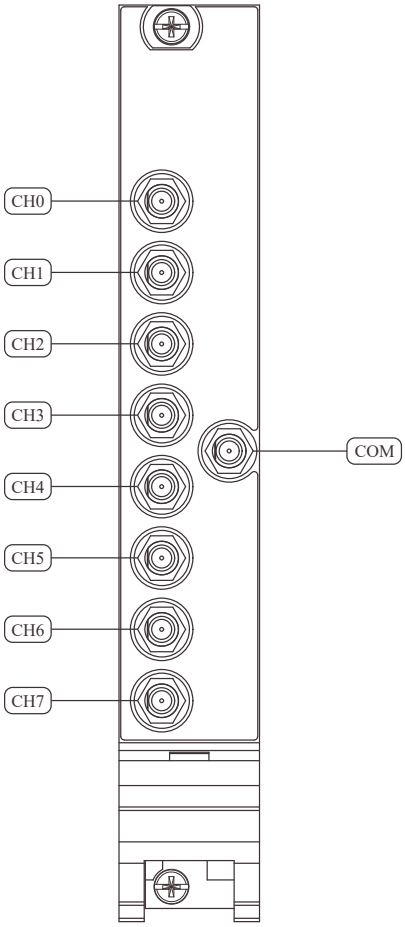
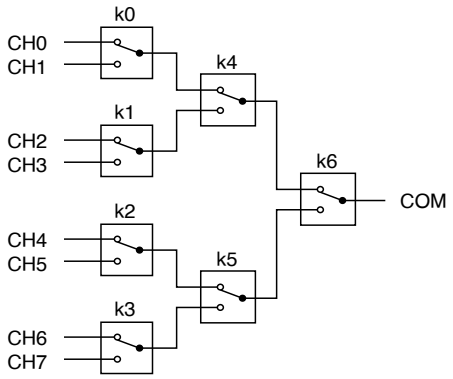


Table 1. Signal Descriptions

Signal	Description
CH***x***	Signal connection
COM	Routing destination for all channels

PXI-2557 Hardware Diagram

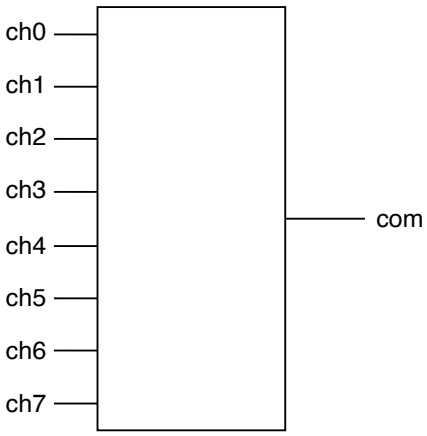
This figure shows the hardware diagram of the module.



PXI-2557 Topology

This figure describes the topology of the module.

Module software name: 2557/8x1 Mux (NISWITCH_TOPOLOGY_2557_8X1_MUX)



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 of each of the 8x1 multiplexers is always connected to the 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 (ch0) from COM upon initial connection.

The following sequence of tasks illustrates the VI/function calls necessary to make consecutive connections—one between CH 1 and COM and the other between CH 2 and COM:

1. Call the niSwitch Connect Channels VI or the `niSwitch_Connect` function with parameters `ch1` and `com`.
2. Call the niSwitch Disconnect Channels VI or the `niSwitch_Disconnect` function with parameters `ch1` and `com`.
3. Call the niSwitch Connect Channels VI or the `niSwitch_Connect` function with parameters `ch2` and `com`.

When scanning the module, a typical scan list entry might be `ch1->com;`. This entry routes the signal connected to CH 1 to COM.