
PXI-2547

Features

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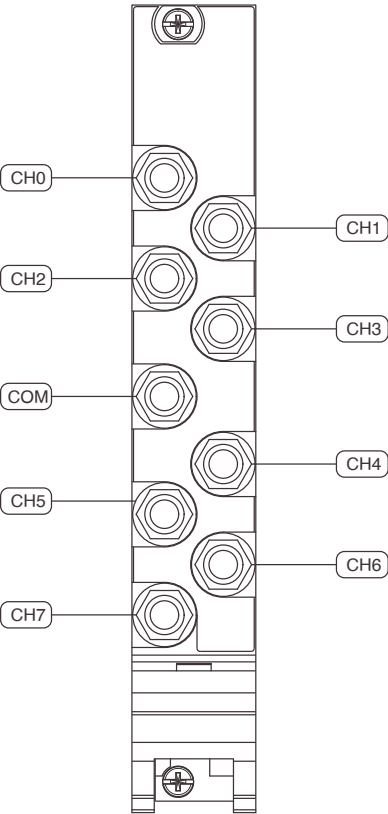
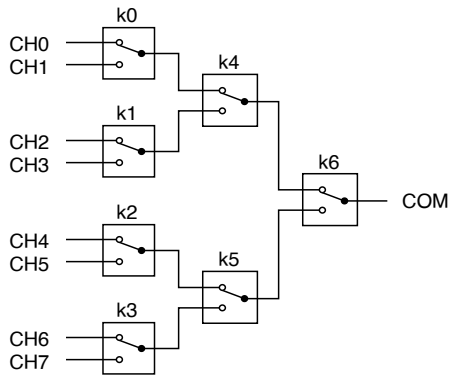


Table 1. Signal Descriptions

Signal	Description
CHx	Signal connection
COM	Routing destination for all channels

PXI-2547 Hardware Diagram

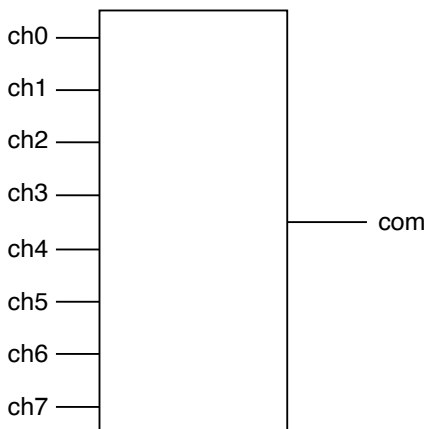
This figure shows the hardware diagram of the module.



PXI-2547 Topology

This figure describes the topology of the module.

Module software name: 2547/8x1 Mux (NISWITCH_TOPOLOGY_2547_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 the 8×1 multiplexer 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.