PXI-2591 Features



Contents

PXI-2591 Overview

PXI-2591 Pinout

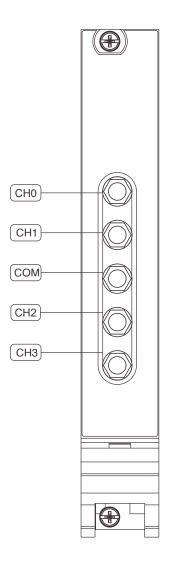
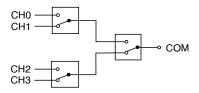


Table 1. Signal Descriptions

Signal	Description
CH x	Signal connection
СОМ	Routing destination for all channels

PXI-2591 Hardware Diagram

This figure shows the hardware diagram of the module.

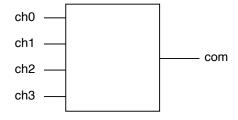


PXI-2591 Topology

This figure describes the topology of the module.

Module software name: 2591/4x1 Mux (NISWITCH_TOPOLOGY_2591_4X1_MUX)

4x1 Multiplexer



Making a Connection

In this topology, you can connect channels by calling the niSwitch Connect Channels VI or the niSwitch Connect function.

To connect the CH**x** terminal to the COM terminal, disconnect the previously connected terminal from the COM.

For example, to connect CH2 to COM after connecting CH1 to COM, use the following code:

niSwitch Disconnect(vi, "ch1", "com")

niSwitch Connect(vi, "ch2", "com")



Note For an initial connection, you do not need to disconnect the default channel (ch3) from COM after the module has been reset or a call to the niSwitch Disconnect All Channels VI or the niSwitch DisconnectAll function has been made.



Note niSwitch_Disconnect(vi, "ch1", "com") does not activate the relay until the niSwitch_Connect(vi, "ch2", "com") is executed. One channel of the 4x1 multiplexer is always connected to the common channel.

When scanning the module, a typical scan list entry could be ch1->com; . This entry routes the signal connected to CH1 to COM.