
PXI-2590

Features

2025-03-20



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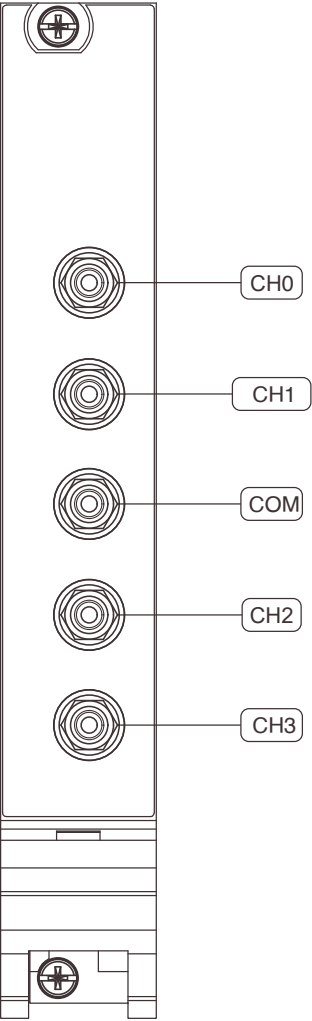
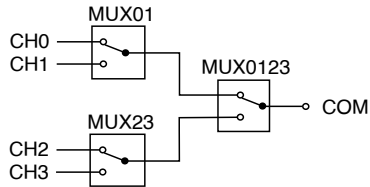


Table 1. Signal Descriptions

Signal	Description
CHx	Signal connection
COM	Routing destination for all channels

PXI-2590 Hardware Diagram

This figure shows the hardware diagram of the module.

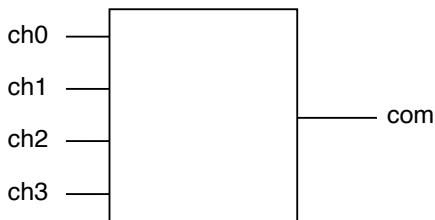


PXI-2590 Topology

This figure describes the topology of the module.

Module software name: 2590/4x1 Mux (NISWITCH_TOPOLOGY_2590_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 (ch0) 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.