
PXI-2594

Features

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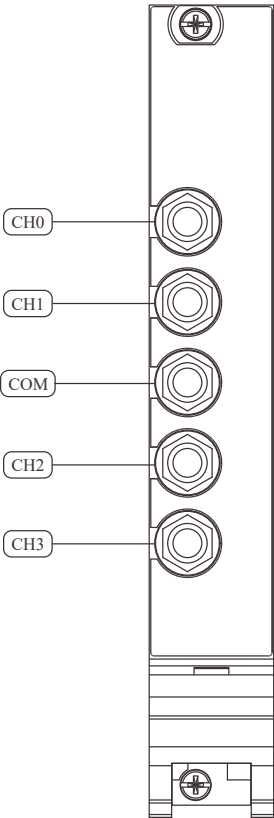
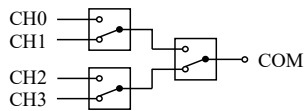


Table 1. Signal Descriptions

Signal	Description
CHx	Signal connection
COM	Routing destination for all channels

PXI-2594 Hardware Diagram

This figure shows the hardware diagram of the module.

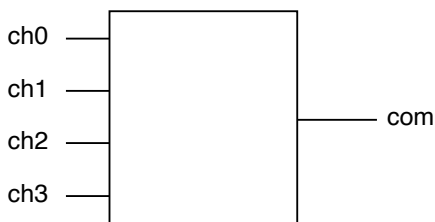


PXI-2594 Topology

This figure describes the topology of the module.

Module software name: 2594/4x1 Mux (NISWITCH_TOPOLOGY_2594_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.

For example, to connect ch1 to com, call `niSwitch_Connect (vi, "ch1", "com")`. If you now want to connect ch2 to com, first disconnect the existing connection. The sequence of calls for this task is as follows:

```
niSwitch_Disconnect(vi, "ch1", "com")
```

```
niSwitch_Connect(vi, "ch2", "com")
```



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

common channel.



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.

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