PXI-2797 Features

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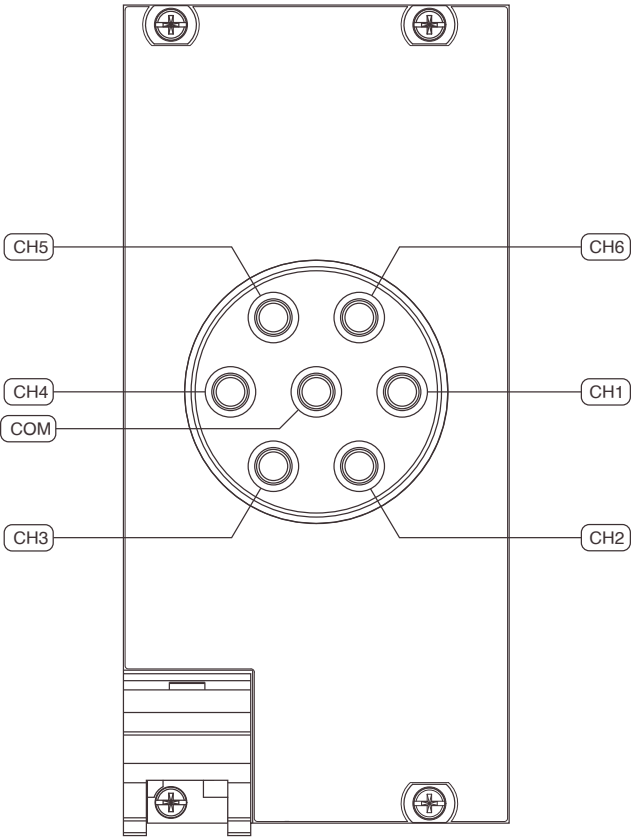
Table 1. Signal Descriptions

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

PXI-2797 Hardware Diagram

This figure shows the hardware diagram of the module.
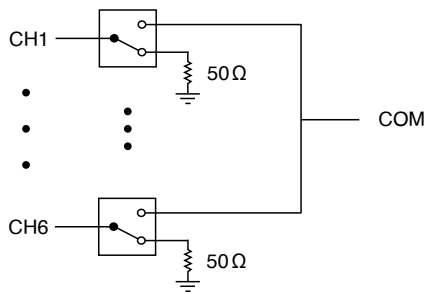
PXI-2797 Topology
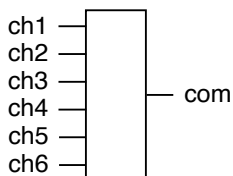
This figure describes the topology of the module.

Module software name: 2797/6x1 Terminated Mux
(NISWITCH_TOPOLOGY_2797_6X1_TERMINATED_MUX)

> ⚠️ **Caution** The terminators on the module are rated for 1 W average power at 25 °C, with power on all terminators not to exceed 3 W. Terminators cannot withstand the full rated power of the module.

6x1 Terminated 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 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** Any input channel not connected to COM is connected to its associated 50 Ω terminator.

> **Note** All channels are disconnected from COM when the module is in its power on state.

When scanning the module, a typical scan list entry could be `ch2->com;`. This entry routes the signal connected to ch2 to com.