PXI-2545 Features



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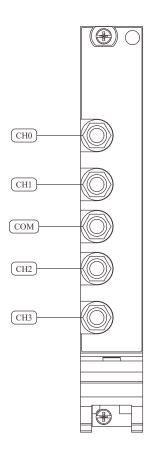
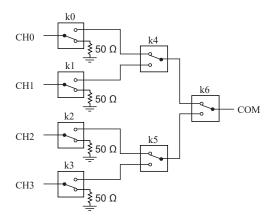


Table 1. Signal Descriptions

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

PXI-2545 Hardware Diagram

This figure shows the hardware diagram of the module.



PXI-2545 Topology

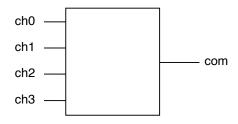
This figure describes the topology of the module.

Module software name: 2545/4x1 Terminated Mux (NISWITCH_TOPOLOGY_2545_4X1_TERMINATED_MUX)



Notice The terminators on the module are rated for 1.5 W at 25 °C. When operating at ambient temperatures greater than 25 °C, a termination power derating applies. Refer the *PXI-2545 Specifications* for more information about termination power derating. Terminators cannot withstand the full rated power of the module.

4x1 Multiplexer



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 All channels are disconnected from COM when the module is in its power on state. Any input channel not connected to COM is connected to its associated 50 Ω terminator.

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.