# PXI-2554 Features

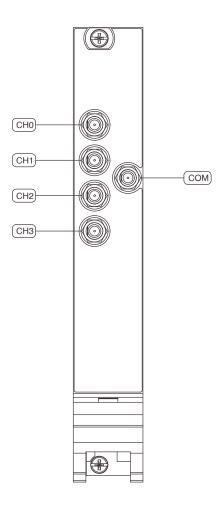


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# PXI-2554 Overview

## PXI-2554 Pinout

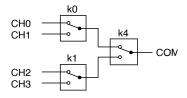


**Table 1.** Signal Descriptions

Signal	Description
CH <b>x</b>	Signal connection
СОМ	Routing destination for all channels

### **PXI-2554 Hardware Diagram**

This figure shows the hardware diagram of the module.

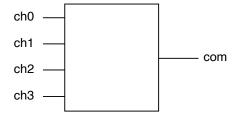


## PXI-2554 Topology

This figure describes the topology of the module.

Module software name: 2554/4x1 Mux (NISWITCH\_TOPOLOGY\_2554\_4X1\_MUX)

### 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** The niSwitch Disconnect Channels VI or the niSwitch\_Disconnect function does not operate the relay until the next niSwitch Connect Channels VI or the next niSwitch\_Connect function is

executed. Thus, one channel of the 4×1 multiplexer is always connected to the common channel. If you have reset the module or called the niSwitch Disconnect All Channels VI or the niSwitch DisconnectAll function, you do not need to disconnect the default channel (ch0) from COM upon initial connection.

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.