
PXI-2540

Features

2025-03-20



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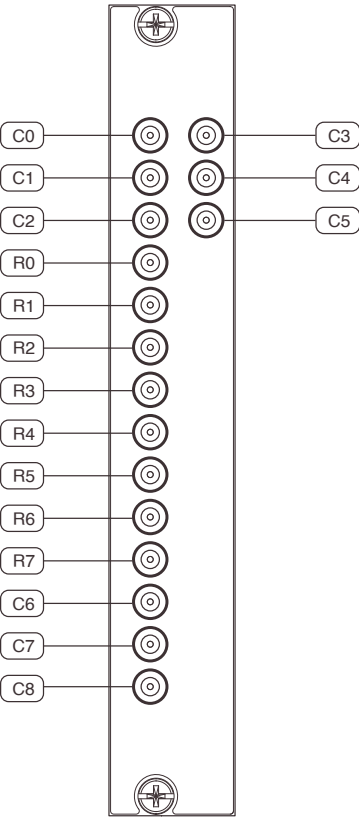
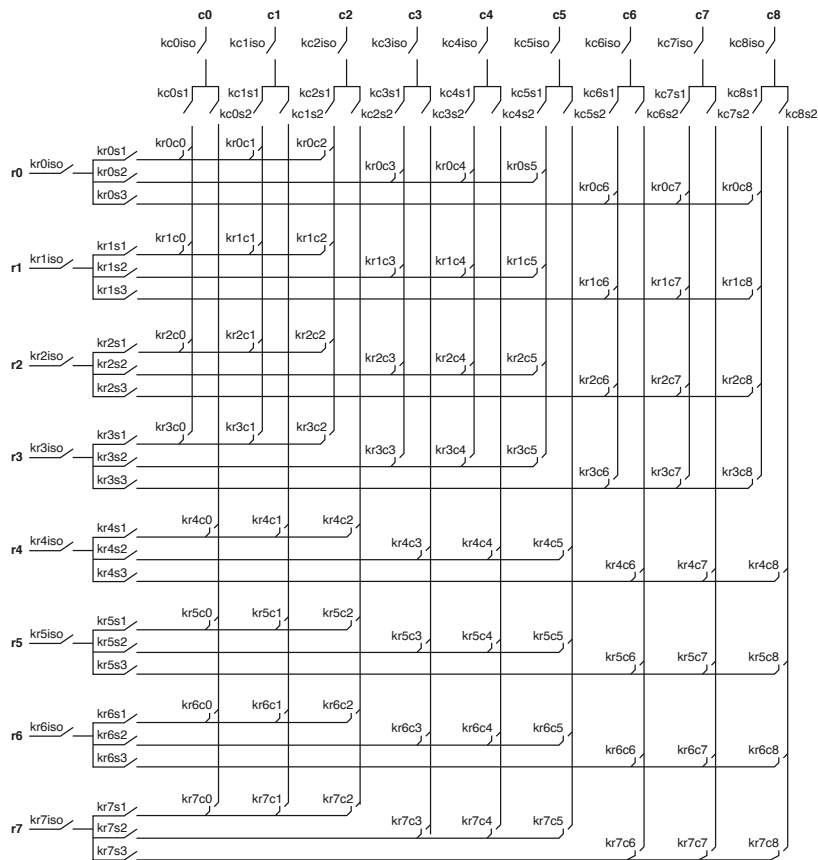


Table 1. Signal Descriptions

Signal	Description
Cx	Column connection
Rx	Row connection

PXI-2540 Hardware Diagram

This figure shows the hardware diagram for the module.



Refer to the following lists for relay names and their functions on the module.

Row Isolation Relays

- kr0iso...kr7iso
- kr0s1...kr7s1
- kr0s2...kr7s2
- kr0s3...kr7s3

Crosspoint Relays

- kr0c0...kr0c8
- kr1c0...kr1c8
- kr2c0...kr2c8
- kr3c0...kr3c8
- kr4c0...kr4c8
- kr5c0...kr5c8

- kr6c0...kr6c8
- kr7c0...kr7c8

Column Isolation Relays

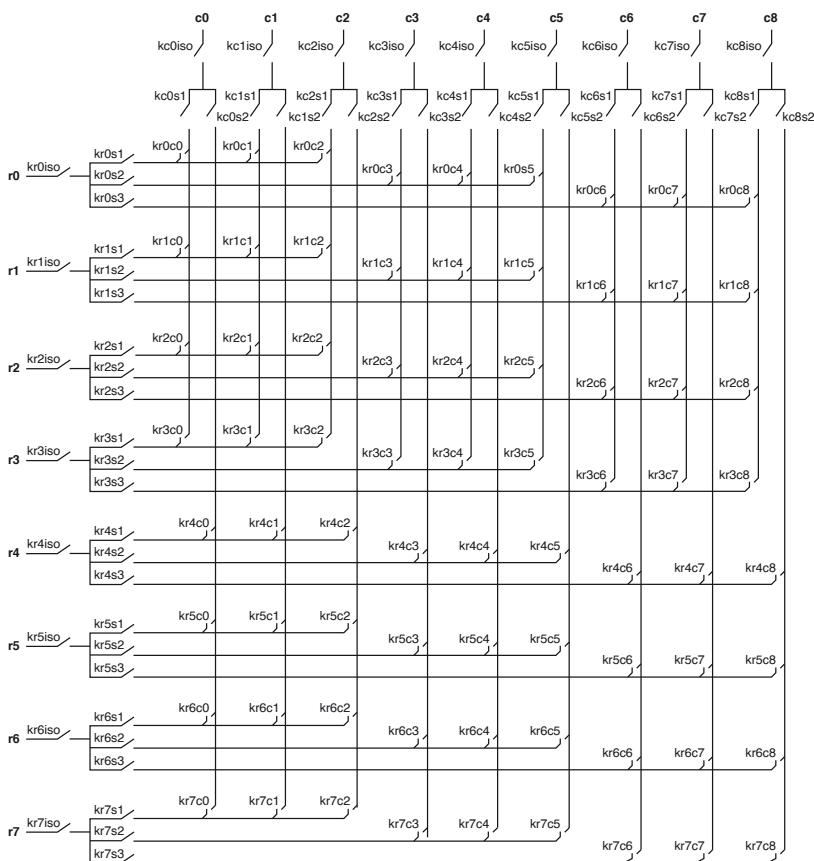
- kc0iso...kc8iso
- kc0s1...kc8s1
- kc0s2...kc8s2

PXI-2540 Topology

This figure shows the topology of the module.

Module software name: 2540/1-Wire 8x9 Matrix
(NISWITCH_TOPOLOGY_2540_1_WIRE_8X9_MATRIX)

1-Wire 8x9 Matrix Topology



Making a Connection

Both the scanning command, `r2->c1;`, and the immediate operation, `niSwitch Connect Channels VI` or the `niSwitch_Connect` function with parameters `r2` and `c1`, result in the following connection:

signal connected to R2 is routed to C1