
PXI-2535

Features

2025-03-20



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Front Panel

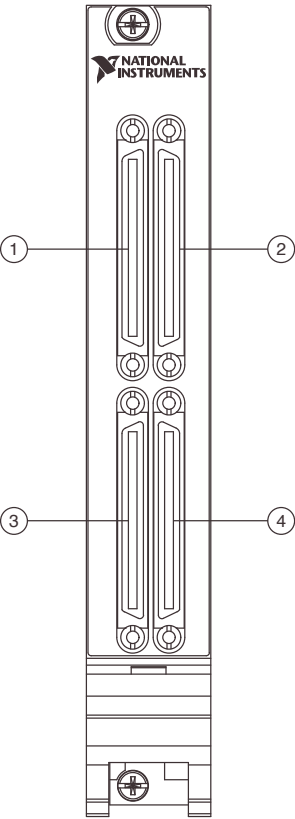


Table 1. Front Panel

Callout	Description
1	Columns 0:67 connector
2	Columns 68:135 connector
3	Rows 0:3 IN connector
4	Rows 0:3 OUT connector

Columns 0:67 Connector

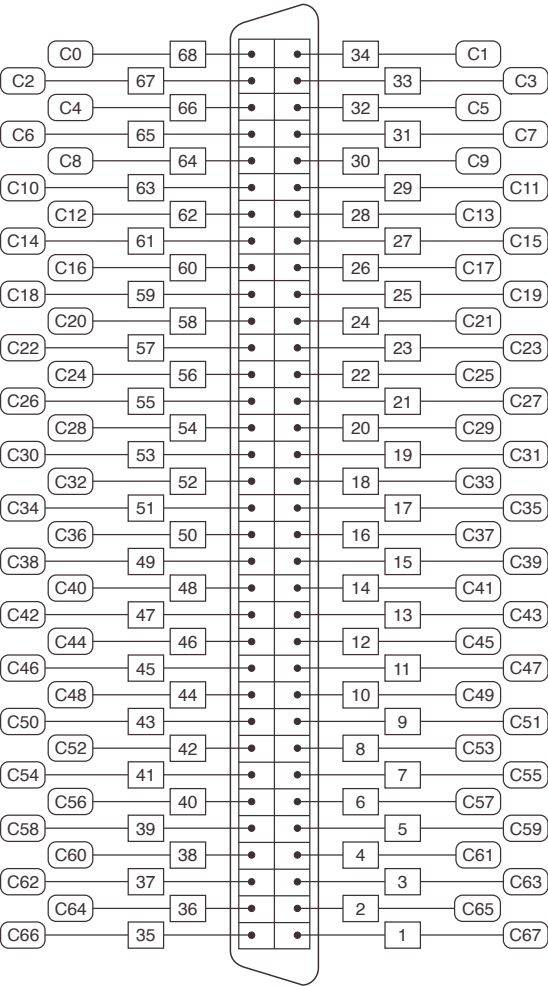


Table 2. Signal Descriptions

Signal	Description
Cx	Column connection

Columns 68:135 Connector

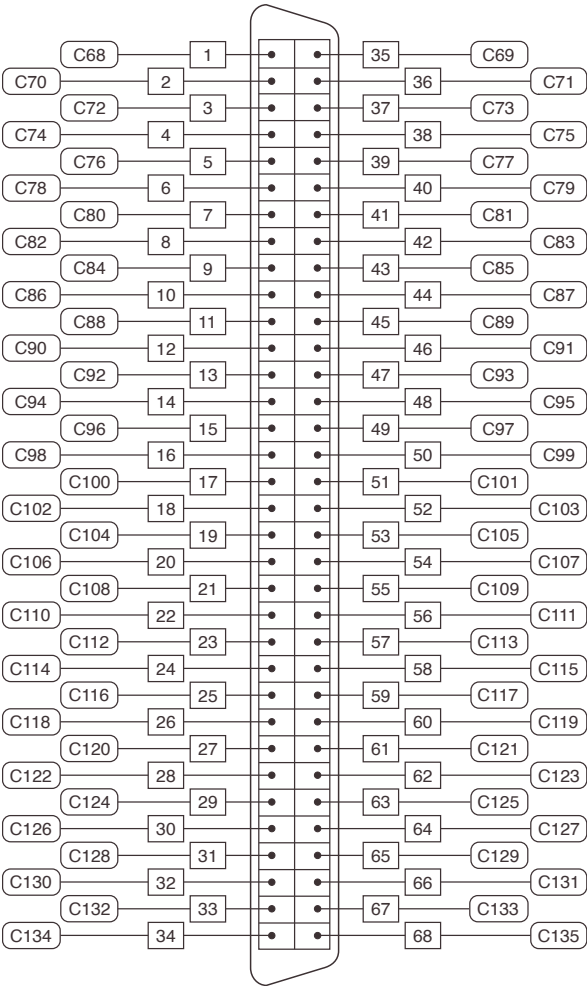


Table 3. Signal Descriptions

Signal	Description
Cx	Column connection

Rows 0:3 IN Connector

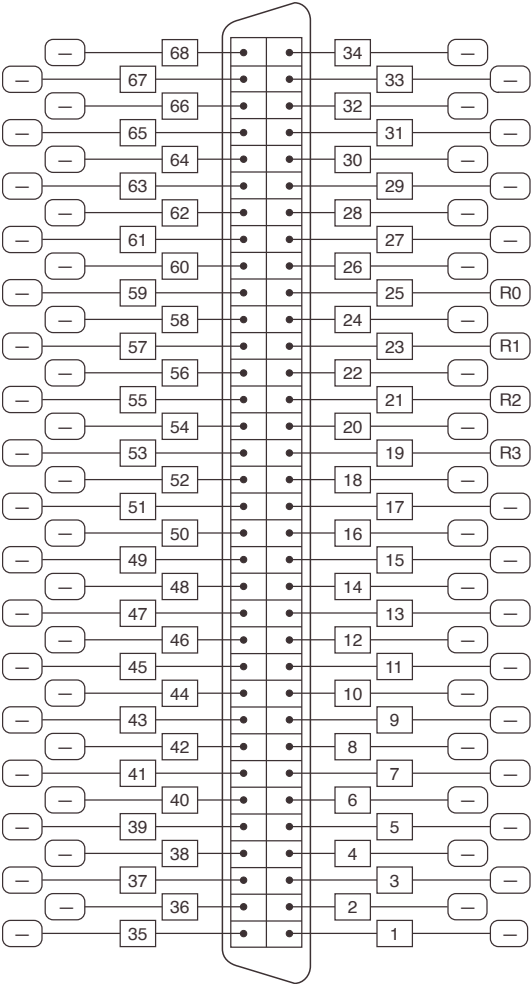


Table 4. Signal Descriptions

Signal	Description
Rx	Row connection
—	No connection

Rows 0:3 OUT Connector

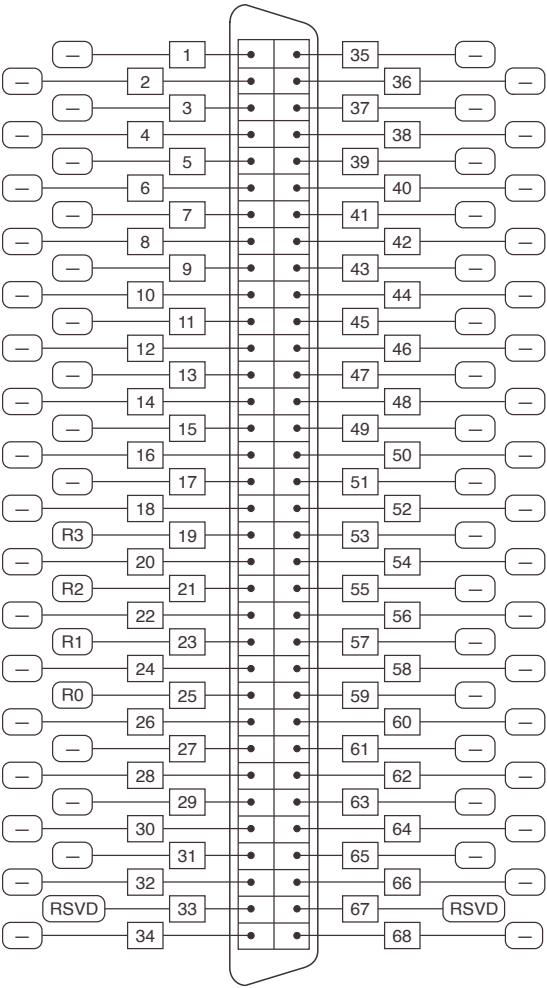


Table 5. Signal Descriptions

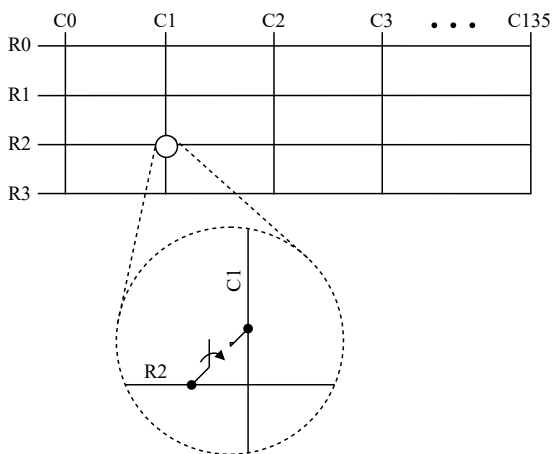
Signal	Description
Rx	Row output for column expansion
RSVD	Reserved, do not connect
—	No connection

PXI-2535 Topology

Module software name: 2535/1-Wire 4x136 Matrix
(NISWITCH_TOPOLOGY_2535_1_WIRE_4X136_MATRIX)

This configuration supports immediate and scanning operation modes.

1-Wire 4×136 Matrix



Relay Names

Relays
kR0C0...kR0C3135
kR1C0...kR1C3135
kR2C0...kR2C3135
kR3C0...kR3C3135

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

Matrix Expansion

You can expand the matrices of the module by increasing the number of columns in the matrix using the SHC68-C68-S cable.

Column Expansion

Complete the following steps to expand the number of columns of a matrix.

1. Connect one end of the SHC68-C68-S cable to a row connector on the module.
2. Connect the other end of the SHC68-C68-S cable to a row connector on another module.