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INSTALLATION INSTRUCTIONS
NI TB-2648/2649/2650/2651
Terminal Blocks for the NI PXI/PXIe-2531

このドキュメントには、日本語ページも含まれています。

Introduction

The NI TB-2648/2649/2650/2651 terminal blocks configure your NI PXI/PXIe-2531 (NI 2531) in one of the following topologies.

Table 1. NI 2531 Configurations Created with the NI TB-2648/2649/2650/2651

NI Terminal Block	NI 2531Configured Topologies
NI TB-2648	1-wire 4 × 128 matrix
NI TB-2649	1-wire dual 4 × 64 matrix
NI TB-2650	1-wire 8 × 64 matrix
NI TB-2651	1-wire dual 8 × 32 matrix

Refer to the *NI PXI/PXIe-2531 Specifications* for terminal block specifications when used with the NI PXI/PXIe-2531.

Make sure you have the following:

- NI TB-2648/2649/2650/2651 terminal block
- #1 Phillips screwdriver

Caution Refer to the *Read Me First: Safety and Electromagnetic Compatibility* document at `ni.com/manuals` for important safety and compliance information.

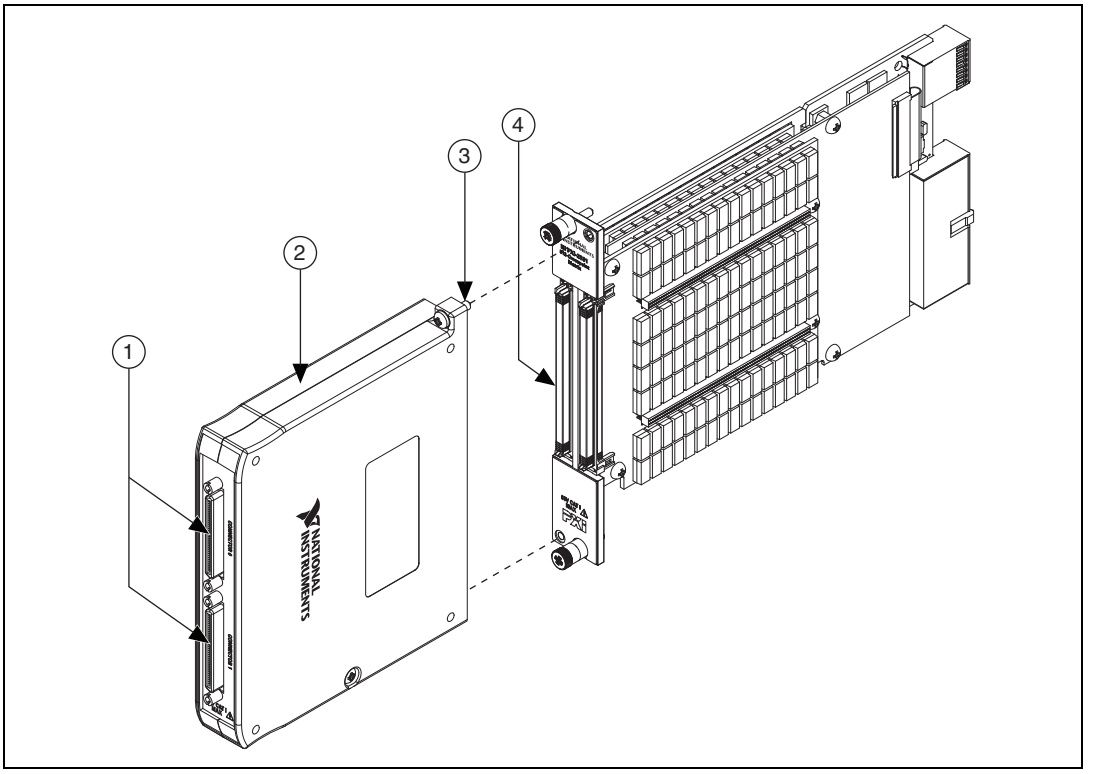
Note Refer to the *Accessories* section for accessories to connect signals from your terminal block to your system.

NATIONAL INSTRUMENTS

Install the Terminal Block

To connect your terminal block to the NI 2531 switch module, refer to Figure 1 and complete the following steps:

1. Connect the NI 2531 front connector to its mating connector on the terminal block.
2. Tighten the top and bottom screws on the back of the terminal block rear panel to hold it securely in place.



1	NI TB-2648 Front Connectors	3	Screws
2	NI TB-2648	4	NI 2531 Front Connectors

Figure 1. Installing the NI TB-2648/2649/2650/2651 Terminal Block

Connecting Signals

Note Refer to the *Accessories* section for recommended NI accessories for connecting signals to your terminal block.

To connect signals to the terminal block, refer to Figures 2 through 5 for the pinout of your terminal block and complete the following steps:

1. Connect a compatible cable to the terminal block.
2. Connect the cable to your device under test, either directly or via a connector block such as the NI TBX-68.

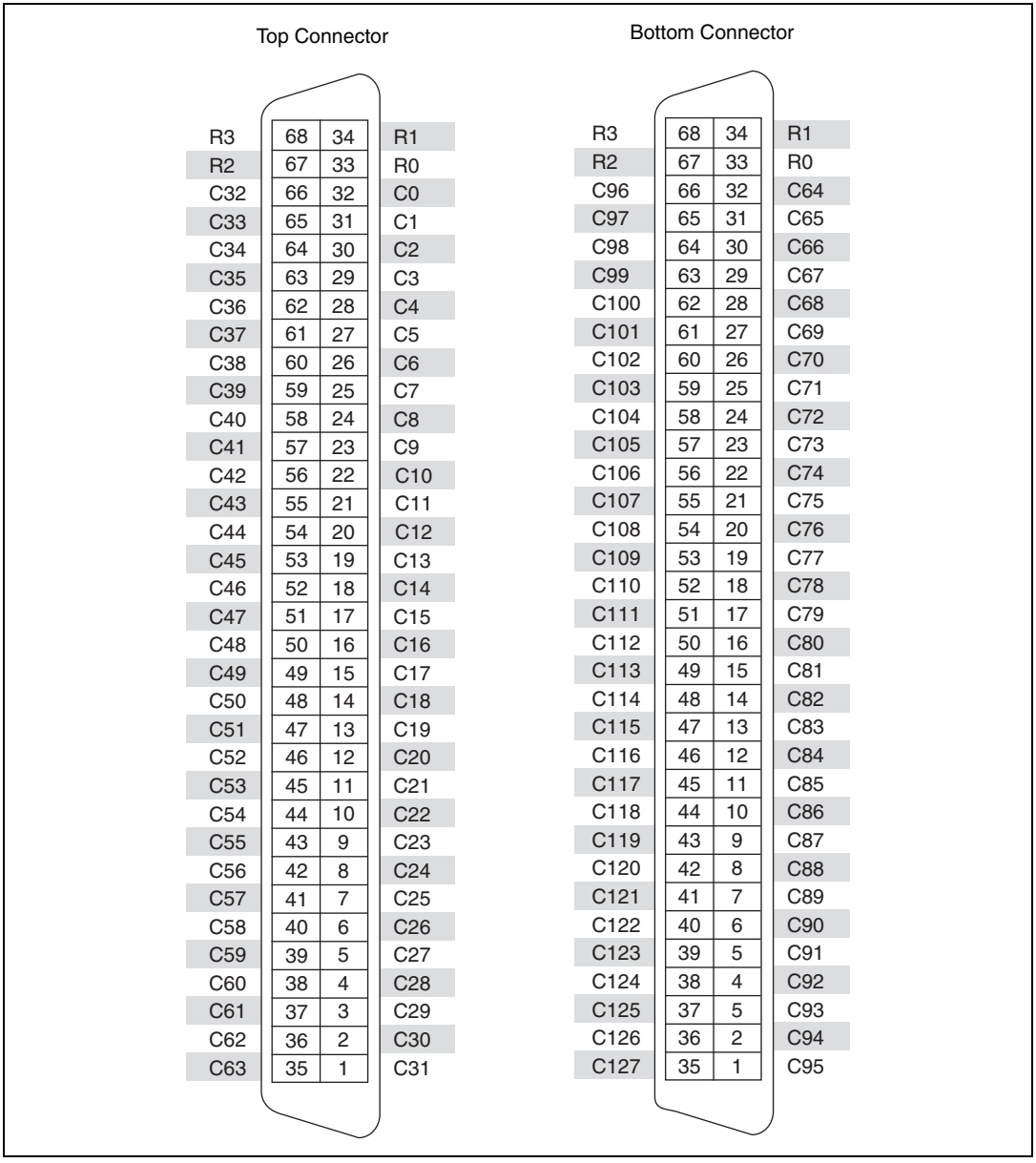


Figure 2. NI TB-2648 Terminal Block Signal Connections
(1-Wire 4 × 128 Matrix)

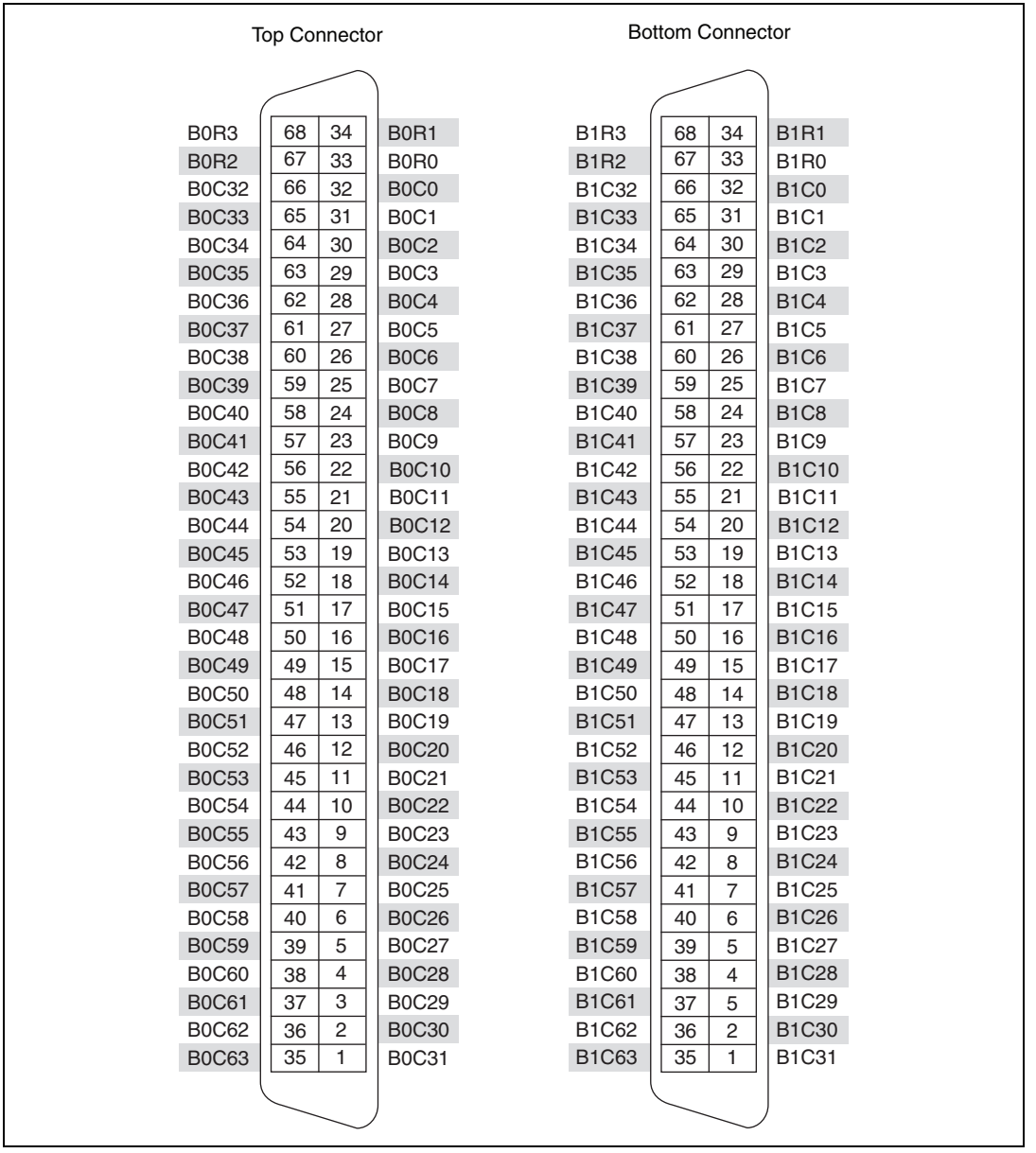


Figure 3. NI TB-2649 Terminal Block Signal Connections (1-Wire Dual 4 × 64 Matrix)

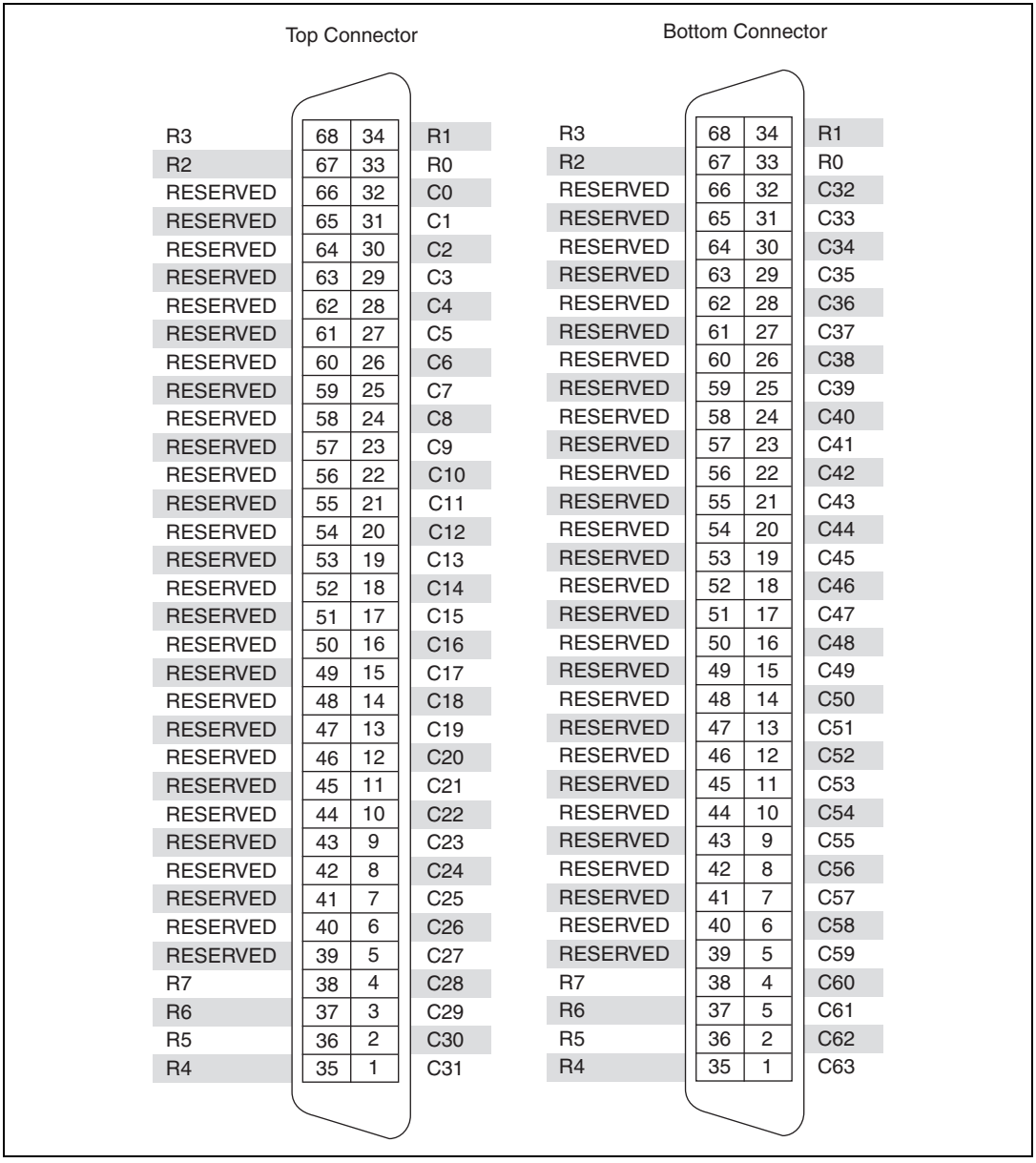


Figure 4. NI TB-2650 Terminal Block Signal Connections (1-Wire 8 × 64 Matrix)

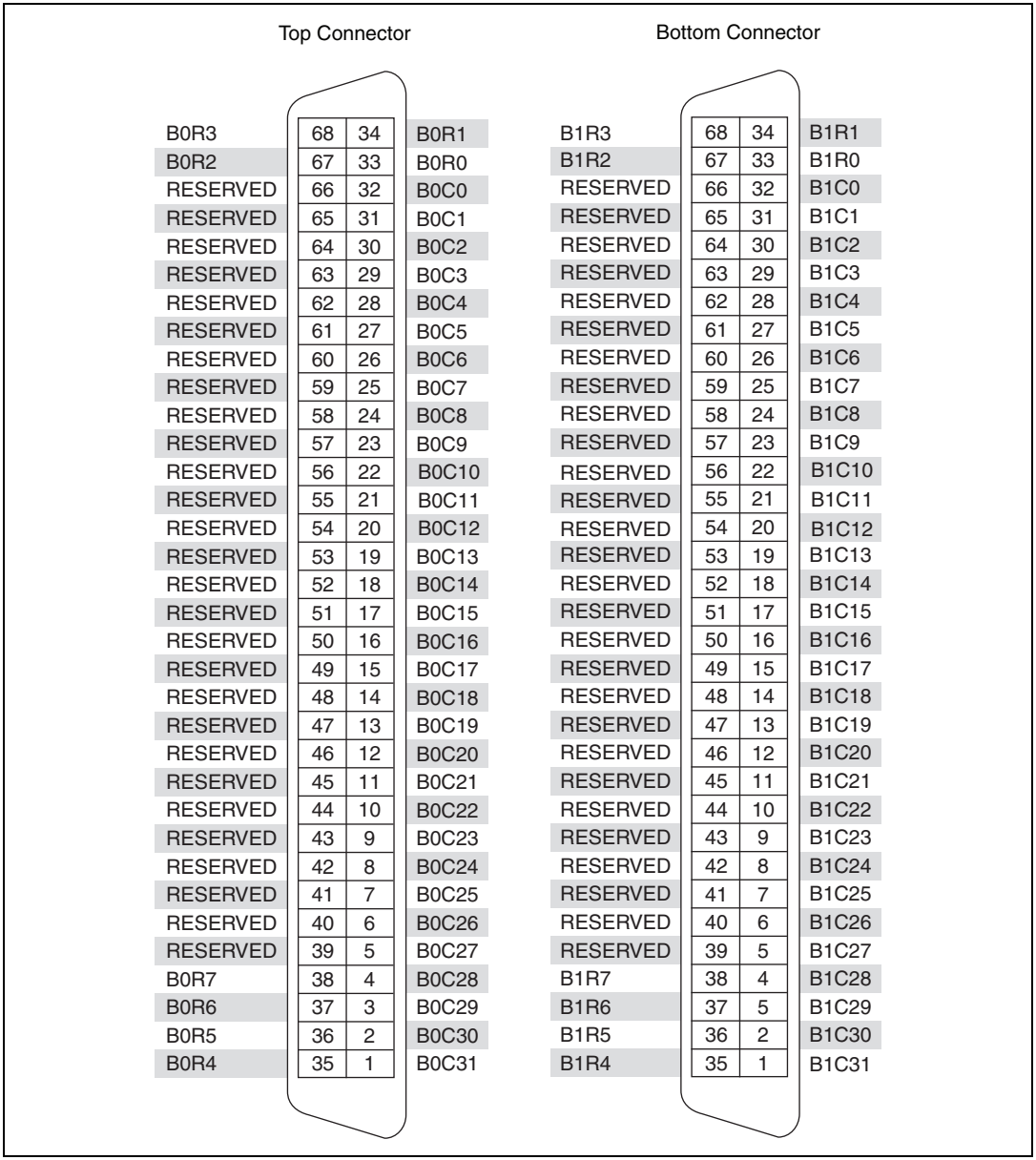


Figure 5. NI TB-2651 Terminal Block Signal Connections (1-Wire Dual 8 × 32 Matrix)

Accessories

Caution NI products typically must be operated with shielded cables and accessories to ensure compliance with Electromagnetic Compatibility (EMC) requirements. To determine if shielded cables or accessories are required for the product that the NI TB-2648/2649/2650/2651 will be used with, refer to the EMC specifications in the product's specifications document. If shielded cables or accessories are required for EMC compliance, do not use unshielded cables or accessories unless they are installed in a shielded enclosure with properly designed and shielded input/output ports, and are connected to the NI product using a shielded cable. If unshielded cables or accessories are not properly installed and shielded, the EMC specifications for the product are no longer guaranteed.

Table 2. Accessories for the NI TB-2648/2649/2650/2651

Accessory	Manufacturer	Part Number
NI TBX-68 unshielded, I/O connector block with DIN-rail mounting	National Instruments	777141-01
NI SHC68-68 shielded cable (1 m)	National Instruments	191945-01
NI SHC68-68 shielded cable (2 m)	National Instruments	191945-02

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