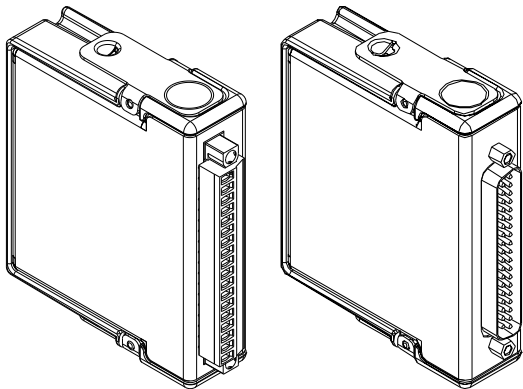


GETTING STARTED GUIDE

NI 9252

8 AI, ± 10 V, 24 bit, 50 kS/s/ch Simultaneous



This document explains how to connect to the NI 9252. In this document, the NI 9252 with screw terminal and the NI 9252 with DSUB are referred to inclusively as the NI 9252.



Note Before you begin, complete the software and hardware installation procedures in your chassis documentation.



Note The guidelines in this document are specific to the NI 9252. The other components in the system might not meet the same safety ratings. Refer to the documentation for each component in the system to determine the safety and EMC ratings for the entire system.

NI 9252 Pinout

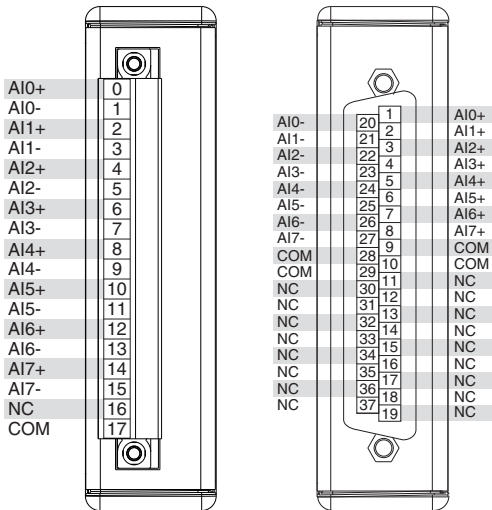
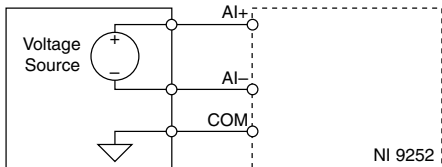


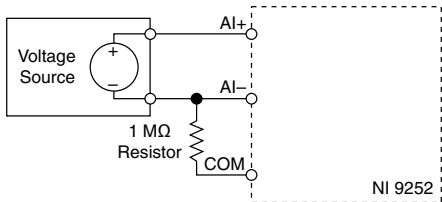
Table 1. Signal Descriptions

Signal	Description
AI+	Positive analog input signal connection
AI-	Negative analog input signal connection
COM	Common reference connection to isolated ground
NC	No connection

Grounded Differential Connections

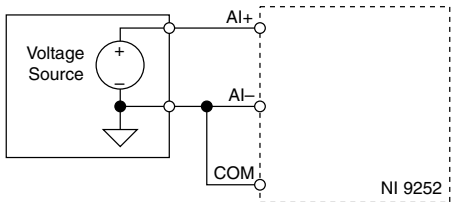


Floating Differential Connections



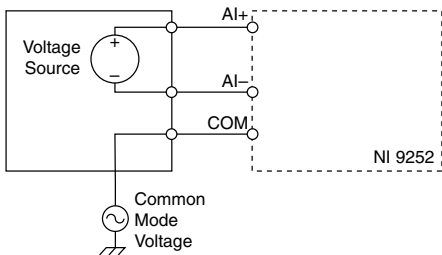
Connect the negative lead to COM through a 1 MΩ resistor to keep the signal source within the common-mode voltage range. The NI 9252 does not read data accurately if the signal source is outside of the common-mode voltage range.

Single-Ended Connections



Connect the ground signal to COM to keep the signal source within the common-mode voltage range.

Differential Connections with Common Mode Voltage



NI 9252 Connection Guidelines

- Make sure that devices you connect to the NI 9252 are compatible with the module specifications.
- You must use 2-wire ferrules to create a secure connection when connecting more than one wire to a single terminal on the NI 9252 with screw terminal.

Wiring for High-Vibration Applications

If your application is subject to high vibration, NI recommends that you follow these guidelines to protect connections to the NI 9252 with screw terminal:

- Use ferrules to terminate wires to the detachable connector.
- Use the NI 9928 backshell kit.

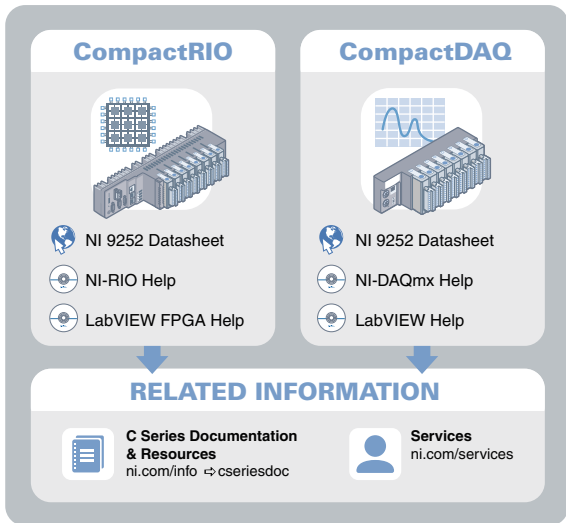
Overvoltage Protection

The NI 9252 provides overvoltage protection for each channel.



Note Refer to the device datasheet on ni.com/manuals for more information about overvoltage protection.

Where to Go Next



Located at ni.com/manuals



Installs with the software

Worldwide Support and Services

The NI website is your complete resource for technical support. At ni.com/support, you have access to everything from troubleshooting and application development self-help resources to email and phone assistance from NI Application Engineers.

Visit ni.com/services for information about the services NI offers.

Visit ni.com/register to register your NI product. Product registration facilitates technical support and ensures that you receive important information updates from NI.

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378058A-01 February 1, 2019