
NI-9265 Getting Started

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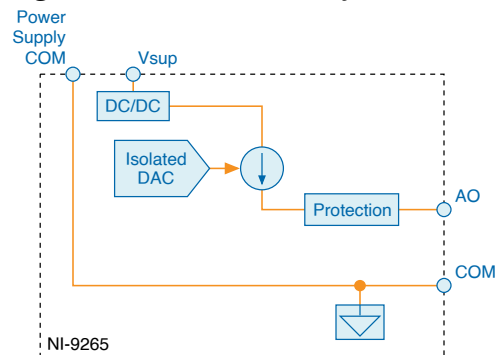
NI-9265 Nomenclature

In this article, the NI-9265 with screw terminal and NI-9265 with spring terminal are referred to inclusively as the NI-9265.

NI-9265 Block Diagram

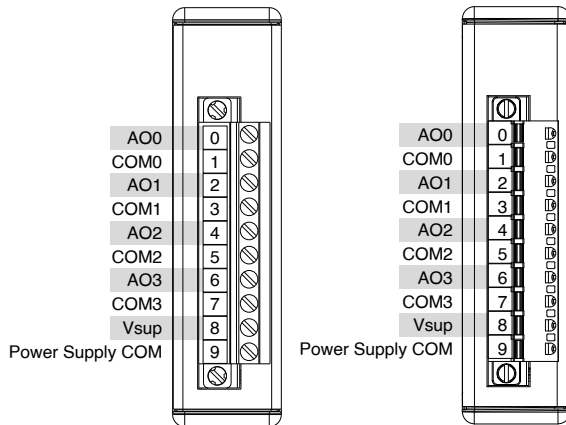
Each AO channel has a digital-to-analog converter (DAC) that produces a current signal. Each channel also has overvoltage and short-circuit protection.

Figure 1. NI-9265 Circuitry



Connecting the NI-9265

The NI-9265 provides connections for four analog output channels.

Figure 2. NI-9265 Pinout

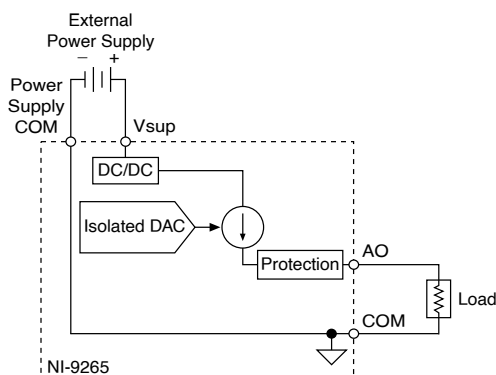
Note You must use 2-wire ferrules to create a secure connection when connecting more than one wire to a single terminal on the NI-9265.

NI-9265 Signals

The NI-9265 has four analog output channels, AO. Each channel has a common terminal, COM, that is internally connected to the isolated ground reference of the module. The NI-9265 also has a terminal for an external power supply, V_{sup} , and an external power supply common terminal, Power Supply COM.

Load Connections

You can connect a load to each channel of the NI 9265.



Connecting an External Power Supply

You must connect an external power supply to the NI-9265. This power supply provides the current for the devices you connect to the module.

When the module powers on, the channels output the startup current.

High-Vibration Application Connections

If your application is subject to high vibration, NI recommends that you follow these guidelines to protect connections to the NI-9265:

- Use ferrules to terminate wires to the detachable connector.
- Use the NI-9927 backshell kit with the NI-9265 with screw terminal or the NI-9981 backshell kit with the NI-9265 with spring terminal.

Conformal Coating

The NI-9265 is available with conformal coating for additional protection in corrosive and condensing environments, including environments with molds and dust.

In addition to the environmental specifications listed in the **NI-9265 Safety, Environmental, and Regulatory Information**, the NI-9265 with conformal coating meets the following specification for the device temperature range. To meet this specification, you must follow the appropriate setup requirements for condensing environments. Refer to **Conformal Coating and NI RIO Products** for more information about conformal coating and the setup requirements for condensing environments.

Operating humidity (IEC 60068-2-30 Test Db)	80 to 100% RH, condensing
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Related information:

- [Conformal Coating and NI RIO Products](#)