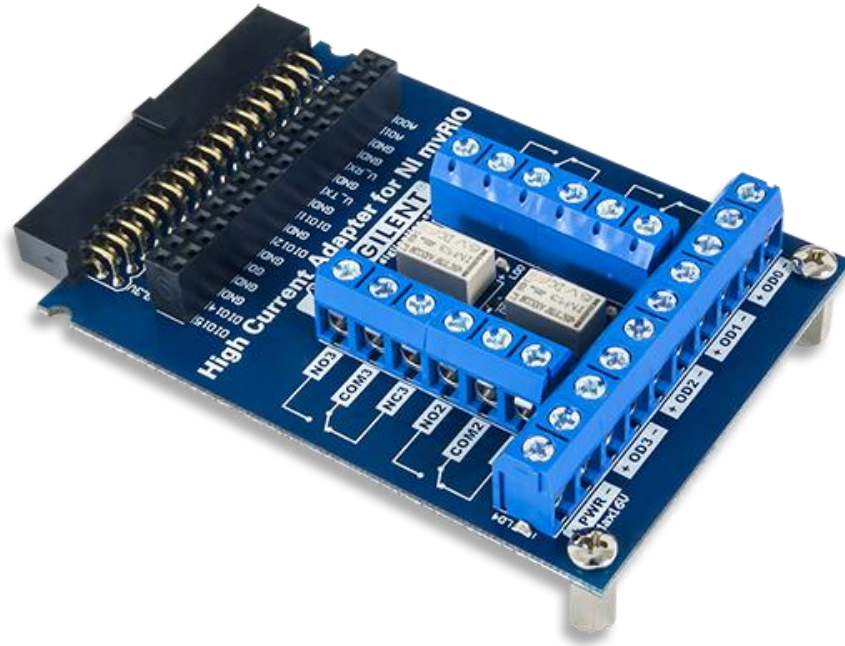


# High Current Adapter for NI myRIO



## Overview

The High Current Adapter for NI myRIO allows you drive high power low speed currents using relays and open drain N-FET outputs trough MXP connector on your myRIO. The switched signals are connected with screw terminals. For open drains a power supply is needed.

Key Features:

- Supports 3V...16V power voltage(external power supply required)
- 4 Open drain outputs
  - Continuous current:3.0A(25°C)/2.2A(85°C)
  - Peak output current:4.1A(t<5s)
- 4 Standard 3 terminal relay outputs
  - Common, Normally Closed, Normally Open
  - Relay output max switching voltage:30V
  - Rated current:1A
- 34-pin female breakout allowing direct access to signal pins
- Uses the myRIO Expansion Port(MXP) connector

**Connector Pin-outs**

Relay connectors :

Signal	Description
NOx	Normal Open
NCx	Normal Close
COMx	Common terminal

Open Drains :

Signal	Description
ODx-	Open Drain negative terminal
ODx+ , PWR+	Supply voltage (internally connected)
PWR-	Ground

#### **Using the Adapter with myRIO**

**\*Relays\*** are single side stable Normal Connected between NC and COM terminals. A logic “high” will energize the coil and the COM will be shorted to NO.

**\*Open Drains\*** connectors are meant to be used with two polarized pins/channel. The OD+ is connected to PWR positive power terminal. The OD- is equipped with transient suppression diodes to the PWR. Connect open drains power supply(+PWR-) respecting the polarity. PWR should not exceed 16VDC.

Note:If you need different supplies for different channels, assure suppression diodes to your supply voltages, especially when use inductive loads.