

## INSTALLATION GUIDE

# 4-Slot PXI Cardcage

This guide describes installation requirements for the 4-slot PXI cardcage, shown in Figure 1.

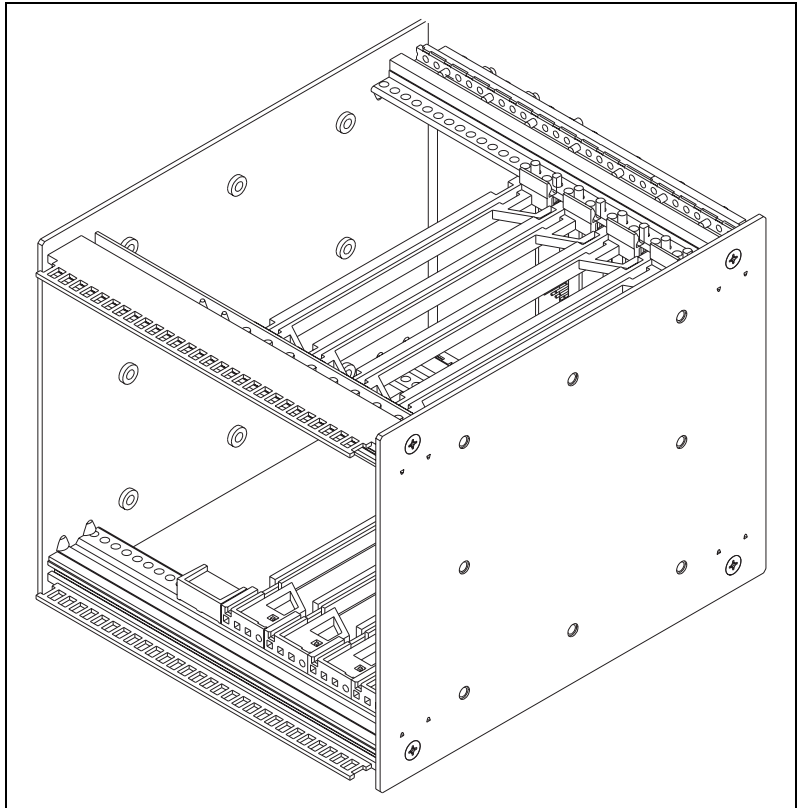


Figure 1. 4-Slot PXI Cardcage

# Description

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The 4-slot PXI cardcage contains one PXI controller slot and three PXI peripheral slots. The cardcage is an inexpensive way to integrate PXI into a larger system.

The cardcage does not include a power supply or cooling solution. You must implement these features when installing the cardcage into your system.

# Mechanical Requirements

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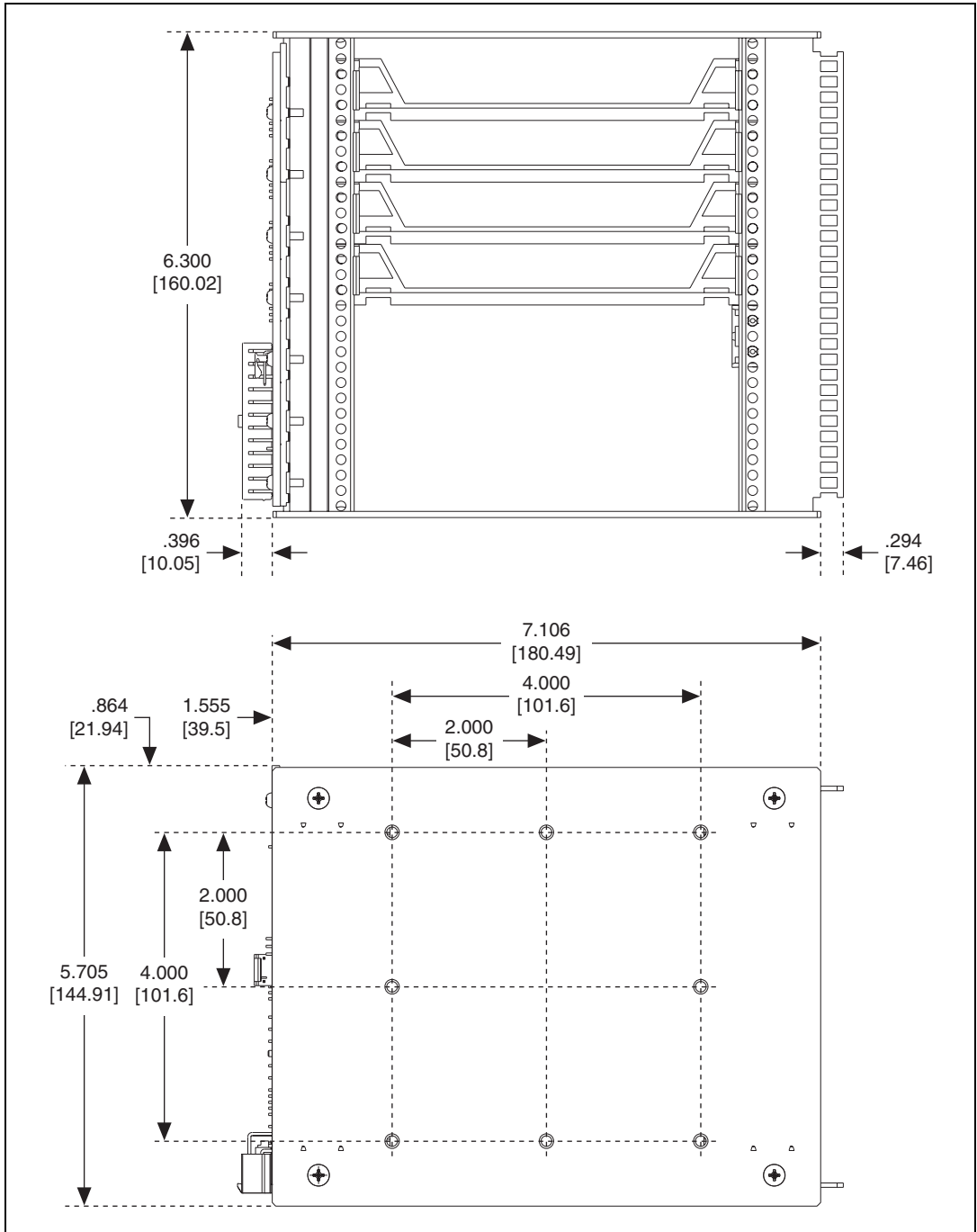
## Mounting

Figure 2 shows the cardcage dimensions. There are eight 6-32 mounting holes on each side of the cardcage.

## Cooling

You should mount a fan below the cardcage. Airflow should be from the bottom to the top of the PXI modules. You must determine the airflow requirements for your system.

# Dimensions



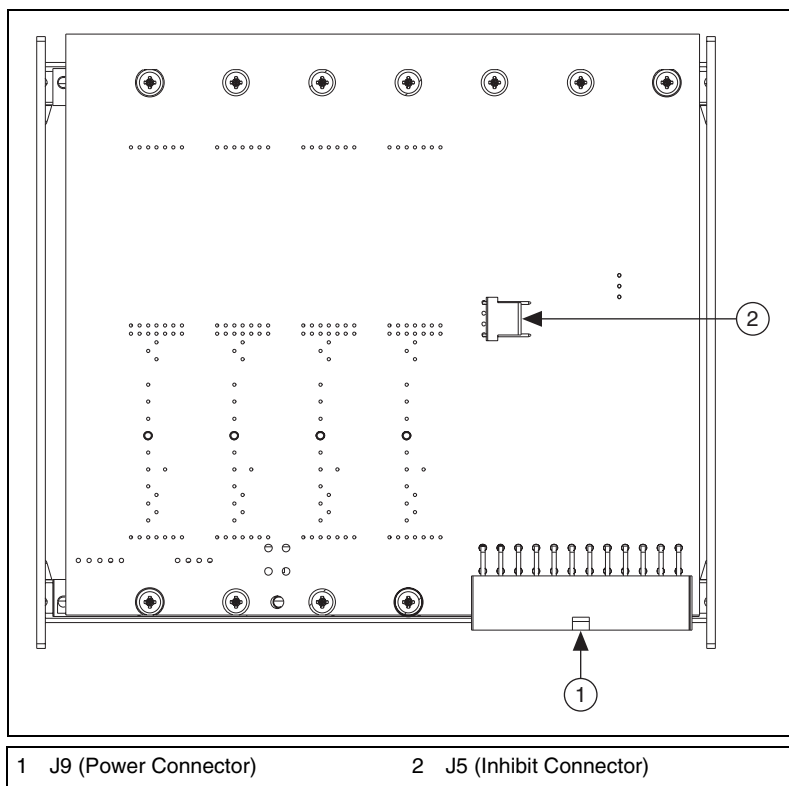
**Figure 2.** Dimensions

# Electrical Requirements

## Clock 10

By default, the backplane's onboard oscillator provides the 10 MHz clock to be distributed with individual drivers to each peripheral slot's PXI\_CLK10 pin.

If you want a better reference clock for PXI\_CLK10, you can drive a 10 MHz clock onto the PXI\_CLK10\_IN pin of slot 2 to replace the backplane's oscillator. To configure the backplane to use this clock, power off the system and remove the system controller. Change switch S1 from its default position to Slot 2 CLK ON. Reinstall the system controller and power on the system. The backplane circuitry now buffers and distributes the 10 MHz clock from slot 2 to the peripheral slots, and the backplane 10 MHz oscillator is disabled.



**Figure 3.** Cardcage Connectors

# Power

## Connector J5

Connector J5 is for turning the power supply on or off. Connecting J5 pin 3 to pin 2 turns on the power supply. Refer to Table 1 for the pin descriptions.

**Table 1.** Connector J5 Pin Descriptions

Pin	Description
1	Reserved
2	PS_ON#
3	Ground
4	Reserved

## Connector J9

Connector J9 is for connecting to an ATX power supply. Refer to Table 2 for the pin descriptions.

**Table 2.** Connector J9 Pin Descriptions

Pin	Description	Pin	Description
1	P3V3PS	11	P3V3PS
2	P3V3PS	12	M12V
3	GND	13	GND
4	P5V	14	PS_ON
5	GND	15	GND
6	P5V	16	GND
7	GND	17	GND
8	PWROK	18	M5V
9	5VSTDBY	19	P5V
10	P12V	20	P5V

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