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cRIO-9081

INSTALLATION INSTRUCTIONS

Rack Mounting Kit with DIN Rail for CompactRIO and CompactDAQ

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The National Instruments CompactRIO rack mounting kit with DIN rail is an accessory you can use to mount a CompactRIO chassis and other DIN rail-mountable equipment on a standard 19-inch rack.



Note You need a #2 Phillips screwdriver to install the rack mounting kit.

The NI CompactRIO rack mounting kit with DIN rail contains the following components:

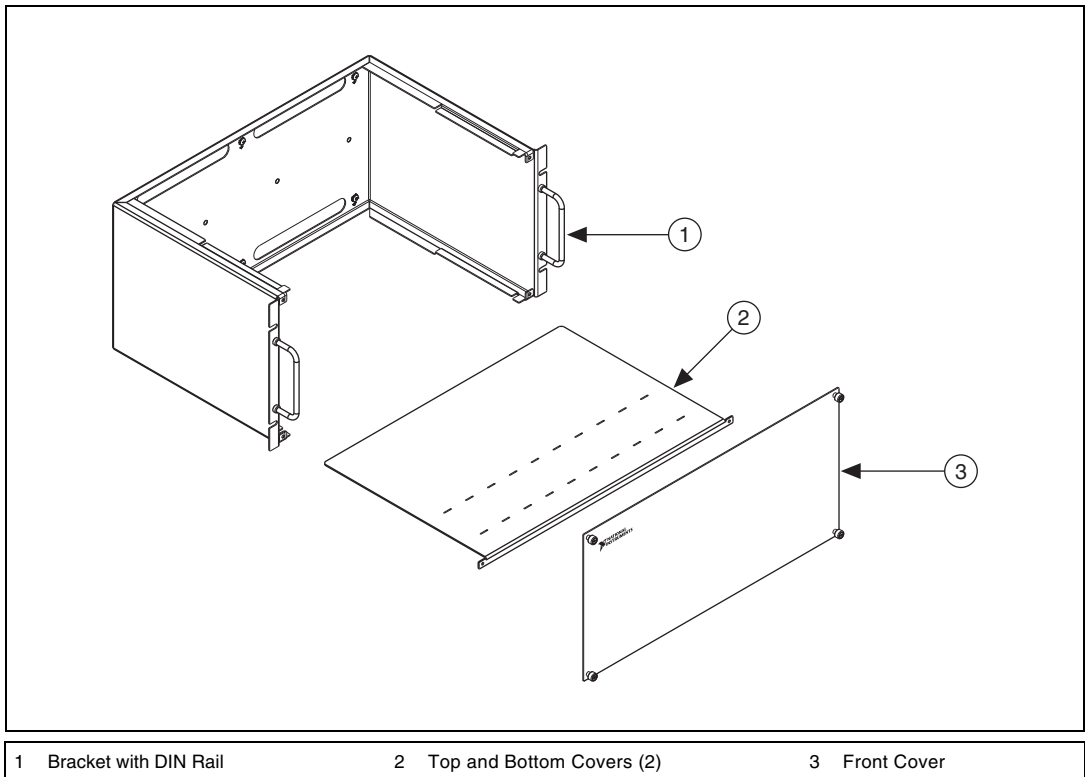


Figure 1. Components of the NI CompactRIO Rack Mounting Kit with DIN Rail

Installing the Rack Mounting Kit

Complete the following steps to install the rack mounting kit on a standard 19-inch rack:

1. Secure the bracket in position with four screws suitable for the rack. Screws are not included in the kit.



Note Do not overtighten the screws. You may need to adjust the screws when assembly is complete.

2. Install a DIN rail clip on the chassis using the screws shipped with the clip. Refer to the chassis documentation for information about installing the DIN rail clip. The following figure shows how to install the DIN rail clip that fits the NI cRIO-908x chassis.

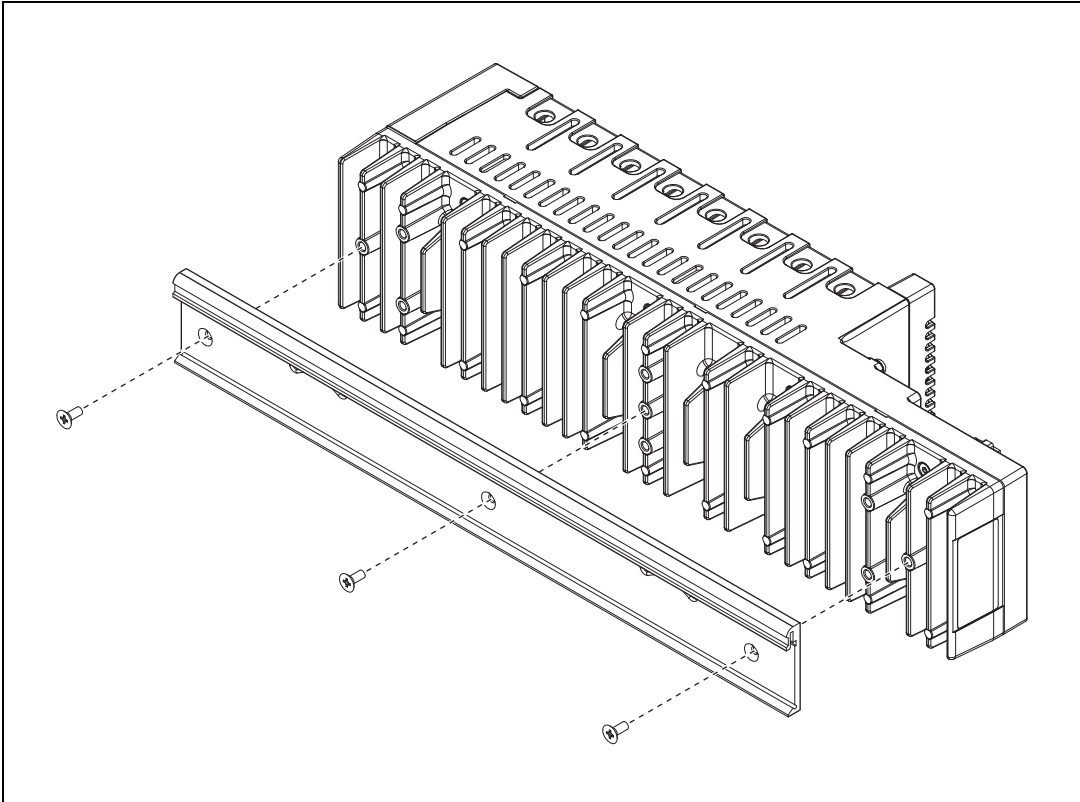


Figure 2. Installing a DIN Rail Clip on the NI cRIO-908x

- Clip the chassis and DIN rail clip assembly to the DIN rail, as shown in Figure 3.

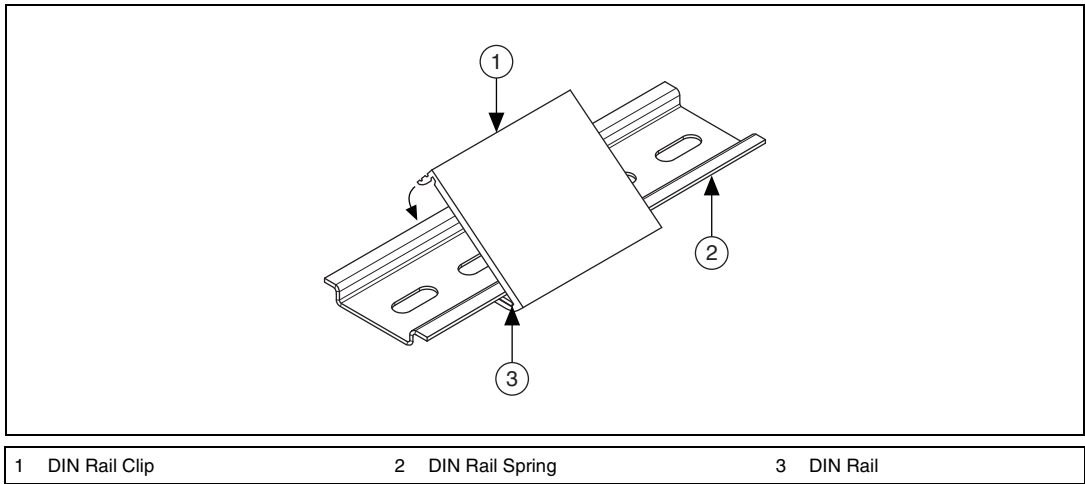


Figure 3. Attaching the DIN Rail Clip to the DIN Rail

- Make all necessary electrical connections as described in the controller, chassis, and I/O module documentation. Route all cables through the openings in rear surface of the bracket.
- Connect the chassis ground wire to the bracket grounding screw. Refer to Figure 5 for the location of the bracket grounding screw.
- Install the top and bottom covers as shown in Figure 4.

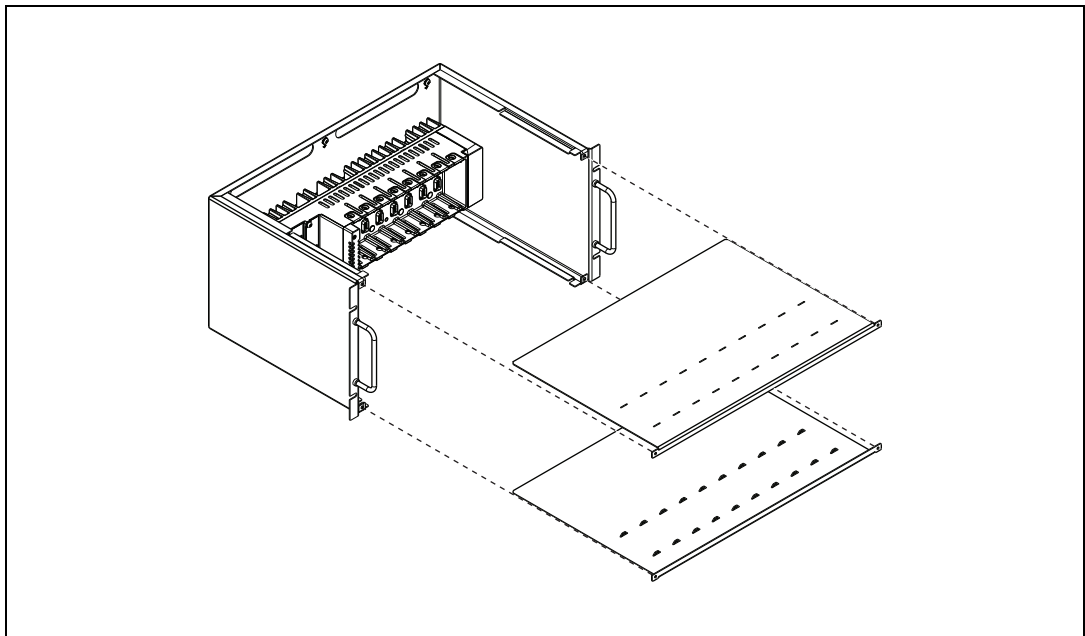


Figure 4. Installing the Top and Bottom Covers

7. Install cable ties (not included) to relieve strain on the cables if necessary. You can attach cable ties to the mounts on the top and bottom covers. Figure 5 does not show the top covers, but the top and bottom covers are identical.

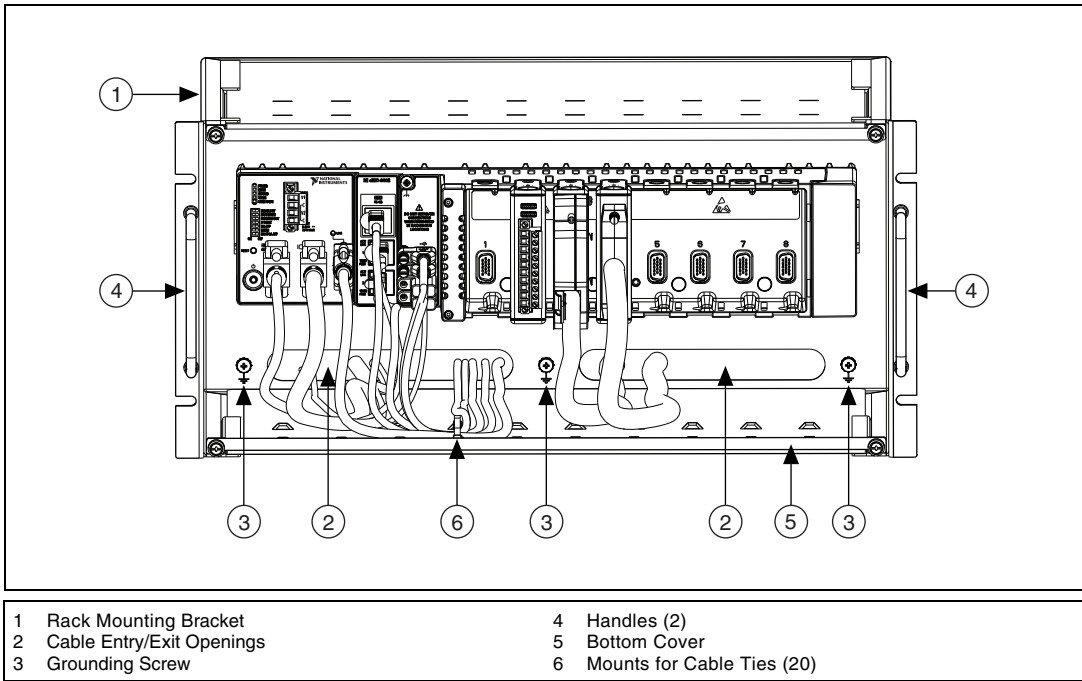


Figure 5. NI cRIO-908x Mounted in Bracket, Front View

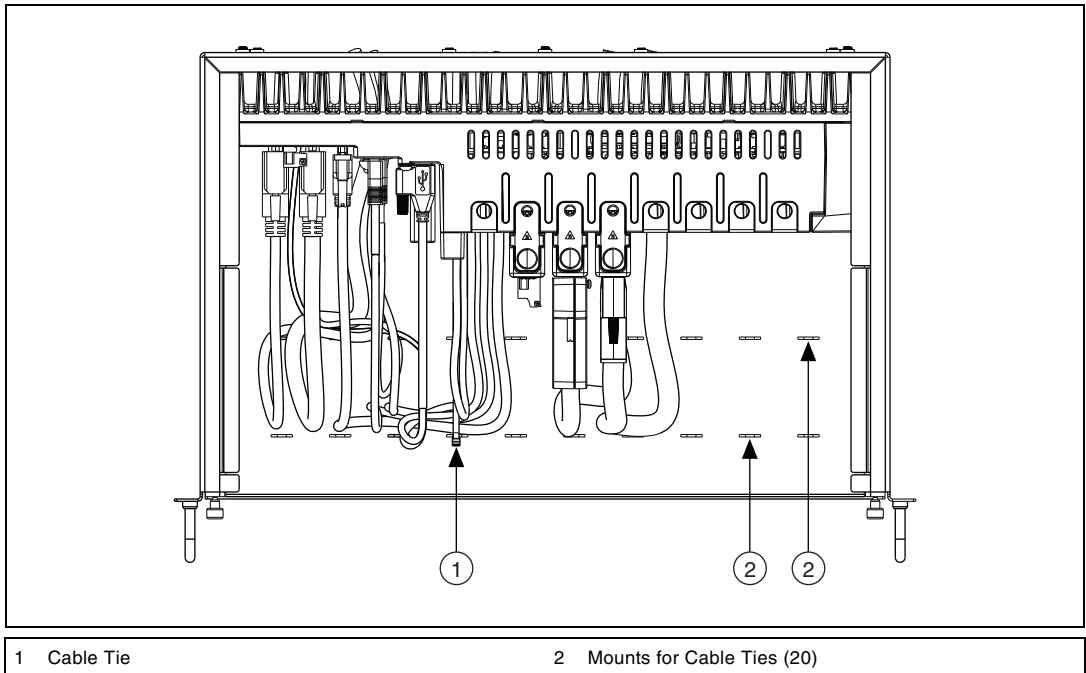


Figure 6. NI cRIO-908x Mounted in Bracket, Top View

8. Install the front cover as shown in Figure 7.

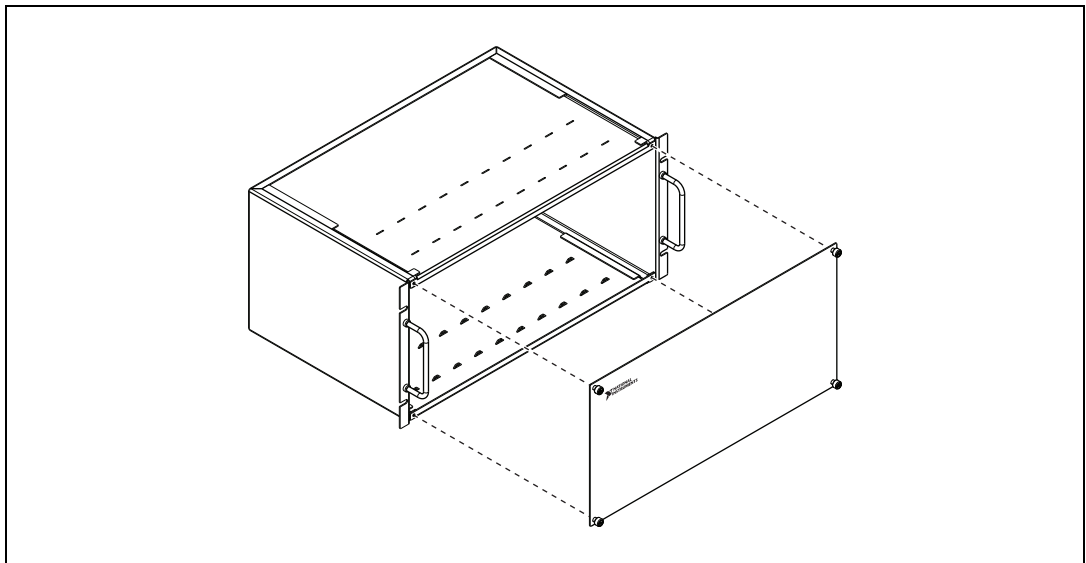


Figure 7. Installing the Front Cover

9. Tighten the four captive screws on the front cover. Do not tighten past $0.5 \text{ N} \cdot \text{m}$ ($4.9 \text{ lb} \cdot \text{in.}$) of torque.

The following figure shows the dimensions of the rack mounting kit.

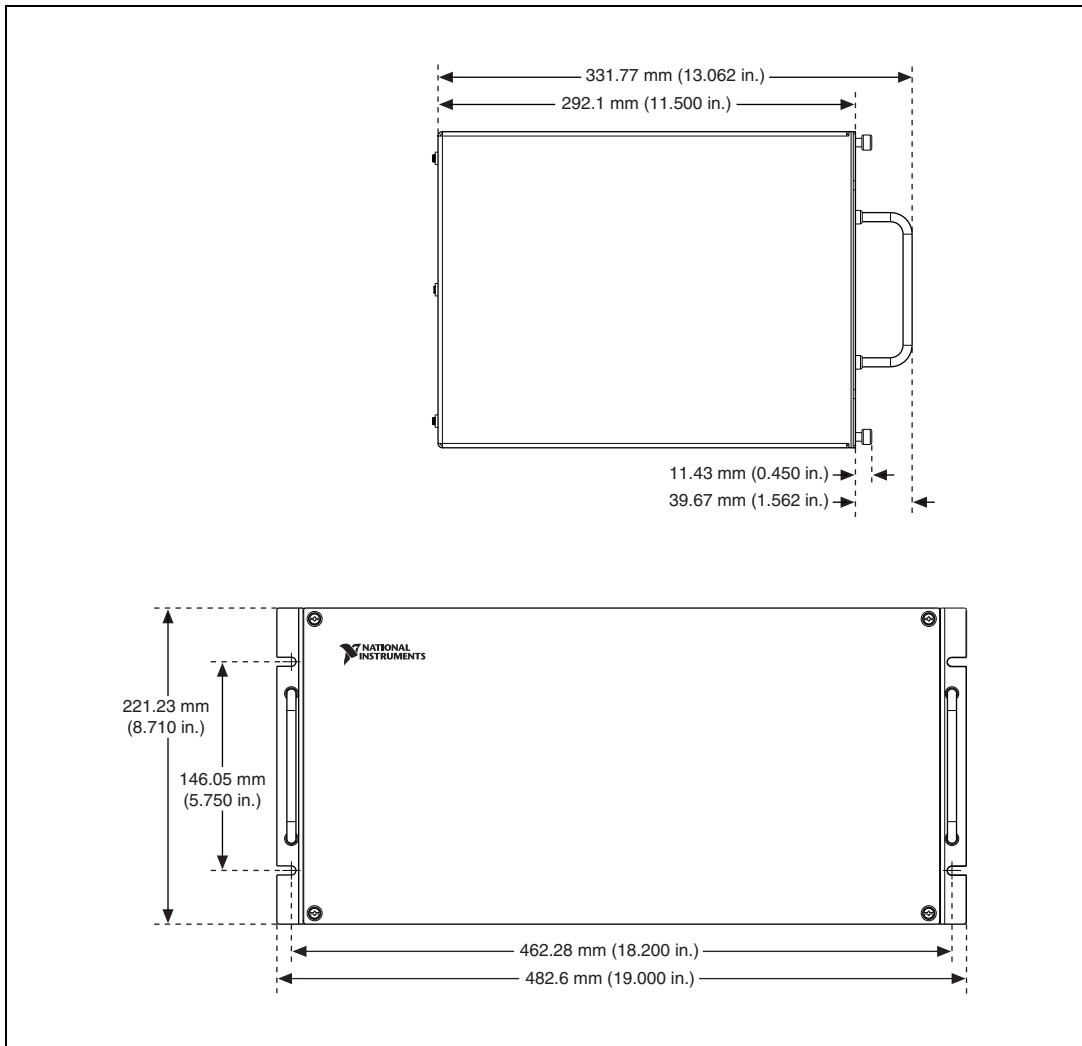


Figure 8. Dimensions of Rack Mounting Kit

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