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# **CMS/MMS/ EMSA-9065 Features**

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2025-03-20



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# Introduction

This document describes how to maintain the CMS-9065 NI Condition Monitoring Device, MMS-9065 NI Motor Monitoring Device, and the EMSA-9065 NI Electromagnetic Signature Analysis Device. The CompactRIO-based CMS-9065, CompactRIO-based MMS-9065, and the CompactRIO-based EMSA-9065 are bundles of hardware and software that include the following components and features:

- NI C Series modules installed in the chassis
- Pre-installed NI InsightCM Application software
- Network configuration via USB drive



**Note** Complete the steps in the ***NI InsightCM Monitoring Device Quick Start*** before using this document.



**Note** The chassis and modules included in the cRIO-9065 have been individually certified and rated for safety, environmental, and regulatory information. Refer to [ni.com/manuals](http://ni.com/manuals) for complete hardware documentation for each device, including safety, environmental, and regulatory information.

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## Safety Guidelines



**Caution** Observe all instructions and cautions in the user documentation. Using the model in a manner not specified can damage the model and compromise the built-in safety protection. Return damaged models to NI for repair.



**Attention** Suivez toutes les instructions et respectez toutes les mises en garde de la documentation utilisateur. L'utilisation d'un modèle de toute autre façon que celle spécifiée risque de l'endommager et de compromettre la protection de sécurité intégrée. Renvoyez les modèles endommagés à NI pour réparation.

## Safety Guidelines for Hazardous Locations

The cRIO-9065 is suitable for use in Class I, Division 2, Groups A, B, C, D, T4 hazardous locations; Class I, Zone 2, Class I, Division 2, Groups A, B, C, D, T4 and Class 1, Zone 2, AEx nA IIC T4 hazardous locations; and nonhazardous locations only. Follow these guidelines if you are installing the cRIO-9065 in a potentially explosive environment. Not following these guidelines may result in serious injury or death.



**Caution** Do not disconnect the power supply wires and connectors from the controller unless power has been switched off.



**Caution** Do not disconnect I/O-side wires or connectors unless power has been switched off or the area is known to be nonhazardous.



**Caution** Do not remove modules unless power has been switched off or the area is known to be nonhazardous.




**Caution** Substitution of components may impair suitability for Class I, Division 2, or Zone 2.



**Caution** The system must be installed in an enclosure certified for the intended hazardous (classified) location, having a tool secured cover/door, where a minimum protection of at least IP54 is provided.

## Special Conditions for Hazardous Locations Use in Europe and Internationally

The cRIO-9065 has been evaluated as Ex nA IIC T4 equipment under DEMKO 12ATEX 1202658X and is IECEx UL 14.0089X certified. Each device is marked  II 3G and is suitable for use in Zone 2 hazardous locations, in ambient temperatures of  $-40\text{ }^{\circ}\text{C} \leq T_a \leq 70\text{ }^{\circ}\text{C}$ .



**Caution** Transient protection shall be provided that is set at a level not exceeding 140% of the peak rated voltage value of 85 V at the supply terminals to the equipment.



**Caution** The system shall only be used in an area of not more than Pollution Degree 2, as defined in IEC/EN 60664-1.



**Caution** The system shall be mounted in an ATEX/IECEx-certified enclosure with a minimum ingress protection rating of at least IP54 as defined in IEC/EN 60079-15.



**Caution** The enclosure must have a door or cover accessible only by the use of a tool.

## Electromagnetic Compatibility Guidelines

This product was tested and complies with the regulatory requirements and limits for electromagnetic compatibility (EMC) stated in the product specifications. These requirements and limits provide reasonable protection against harmful interference when the product is operated in the intended operational electromagnetic environment.

This product is intended for use in industrial locations. However, harmful interference may occur in some installations, when the product is connected to a peripheral device or test object, or if the product is used in residential or commercial areas. To minimize interference with radio and television reception and prevent unacceptable performance degradation, install and use this product in strict accordance with the instructions in the product documentation.

Furthermore, any changes or modifications to the product not expressly approved by National Instruments could void your authority to operate it under your local regulatory rules.

## Special Conditions for Marine Applications

Some products are approved for marine (shipboard) applications. To verify marine approval certification for a product, visit [ni.com/product-certifications](https://ni.com/product-certifications), search by model number, and click the appropriate link.



**Notice** In order to meet the EMC requirements for marine applications, install the product in a shielded enclosure with shielded and/or filtered power and input/output ports. In addition, take precautions when designing, selecting, and installing measurement probes and cables to ensure that the desired EMC performance is attained.

## Preparing the Environment

Ensure that the environment in which you are using the cRIO-9065 meets the following specifications.

Operating temperature (IEC 60068-2-1, IEC 60068-2-2)	-40 °C to 70 °C
Operating humidity (IEC 60068-2-78)	10% RH to 90% RH, noncondensing
Pollution Degree	2
Maximum altitude	5,000 m

Indoor use only.

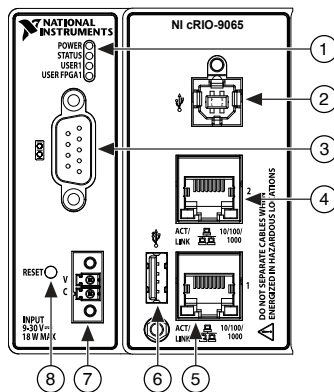


**Note** Refer to the device specifications on [ni.com/manuals](http://ni.com/manuals) for complete specifications.

## Controller Front Panel

The following figure shows the I/O ports and other features of the cRIO-9065 controller.

**Figure 1.** cRIO-9065 Controller Front Panel

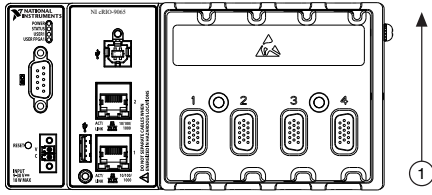


1. LEDs
2. USB Device Port
3. RS-232 Serial Port
4. RJ-45 Ethernet Port 2
5. RJ-45 Ethernet Port 1
6. USB Host Port
7. Power Connector
8. RESET Button

## Mounting the Device

To obtain the maximum allowable ambient temperature of 70 °C, you must mount the cRIO-9065 horizontally on a flat, metallic, vertical surface such as a panel or wall. You can mount the cRIO-9065 directly to the surface or use the NI Panel Mounting Kit. The following figure shows the cRIO-9065 mounted horizontally.



**Figure 2. cRIO-9065 Horizontal Mounting**

### 1. Up

You can also mount the cRIO-9065 in other orientations, on a nonmetallic surface, on a 35-mm DIN rail, on a desktop, or in a rack. Mounting the cRIO-9065 in these or other configurations can reduce the maximum allowable ambient temperature and can affect the typical accuracy of modules in the cRIO-9065. For more information about typical accuracy specifications for C Series modules and temperature deratings caused by different mounting configurations, visit [ni.com/info](https://ni.com/info) and enter the Info Code `criotypicaljp`.



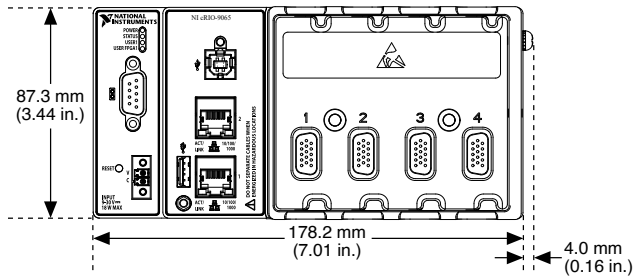
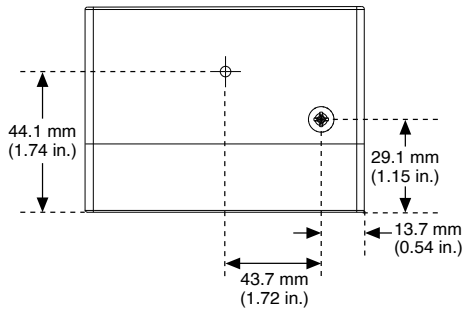
**Caution** Make sure that no C Series modules are in the cRIO-9065 before mounting it.



**Tip** Before using any of these mounting methods, record the serial number from the back of the cRIO-9065 so that you can identify the cRIO-9065 in the NI InsightCM web application. You will be unable to read the serial number after you mount the cRIO-9065.

## Dimensions

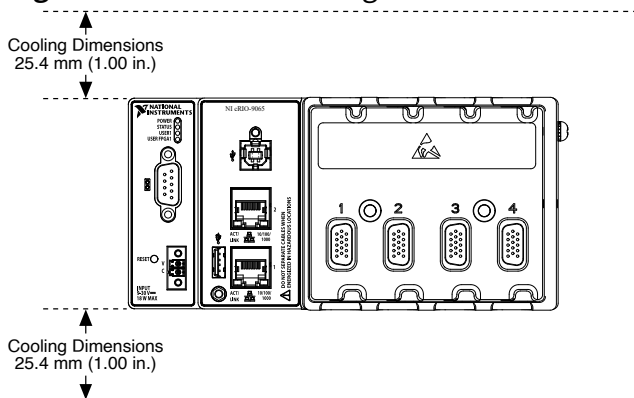
The following figures show the front and side dimensions of the cRIO-9065. For detailed dimensional drawings and 3D models, visit [ni.com/dimensions](https://ni.com/dimensions) and search for the module number.

**Figure 3. cRIO-9065 Front Dimensions****Figure 4. cRIO-9065 Side Dimensions**

## Mounting Requirements

Your installation must meet the following requirements for cooling and cabling clearance.

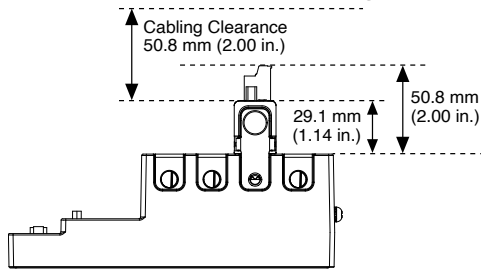
Allow 25.4 mm (1 in.) on the top and the bottom of the cRIO-9065 for air circulation, as shown in the following figure.

**Figure 5. cRIO-9065 Cooling Dimensions**

Allow the appropriate space in front of C Series modules for cabling clearance, as shown in the following figure. The different connector types on C Series modules require different cabling clearances. For a complete list of cabling clearances for C

Series modules, visit [ni.com/info](http://ni.com/info) and enter the Info Code `crioconn`.

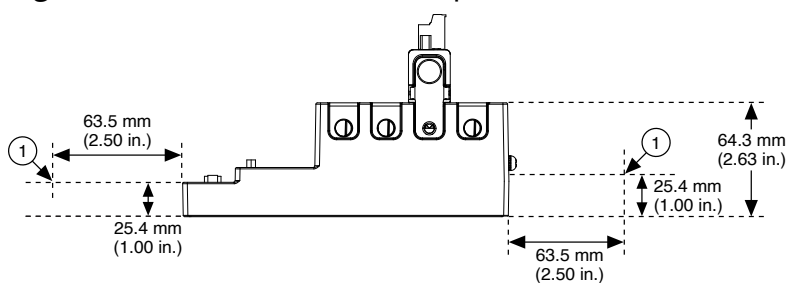
**Figure 6. cRIO-9065 Cabling Clearance**



## Ambient Temperature

Measure the ambient temperature at each side of the cRIO-9065, 63.5 mm (2.5 in.) from the side and 25.4 mm (1 in.) forward from the rear of the cRIO-9065, as shown in the following figure.

**Figure 7. cRIO-9065 Ambient Temperature Location**



1. Location for measuring the ambient temperature

## Mounting the cRIO-9065 Directly on a Flat Surface

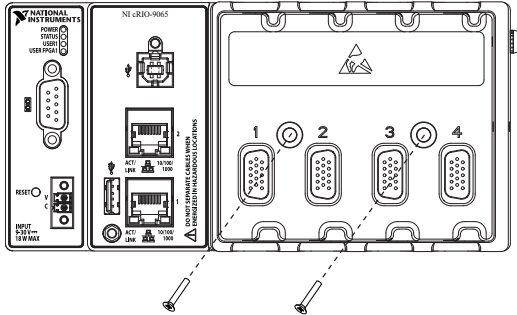
For environments with high shock and vibration, NI recommends mounting the cRIO-9065 directly on a flat, rigid surface using the mounting holes in the cRIO-9065.

### What to Use

- cRIO-9065
- Screwdriver, Phillips #2
- M4 or number 8 screw (x2), user-provided, longer than 23 mm (0.91 in.) to pass all the way through the cRIO-9065

## What to Do

Complete the following steps to mount the cRIO-9065 directly on a flat surface.

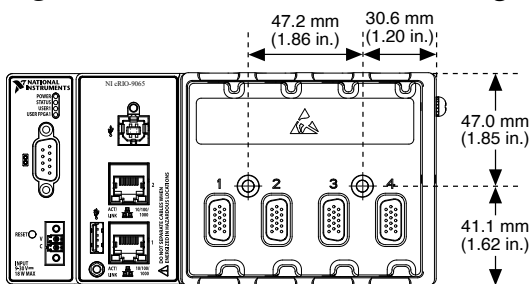


1. Prepare the surface for mounting the cRIO-9065 using the **Surface Mounting Dimensions**.
2. Align the cRIO-9065 on the surface.
3. Fasten the cRIO-9065 to the surface using the M4 or number 8 screws appropriate for the surface. Tighten the screws to a maximum torque of  $1.3 \text{ N} \cdot \text{m}$  ( $11.5 \text{ lb} \cdot \text{in.}$ ).

## Surface Mounting Dimensions

The following figure shows the surface mounting dimensions for the cRIO-9065.

**Figure 8.** cRIO-9065 Surface Mounting Dimensions



## Mounting the Device on a Panel

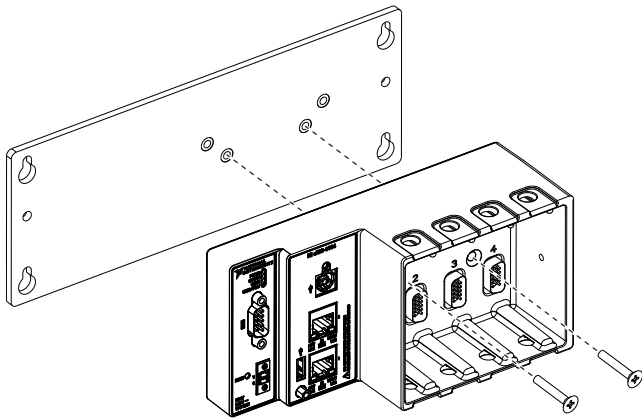
You can use the NI panel mounting kit to mount the cRIO-9065 on a panel.

## What to Use

- cRIO-9065
- Screwdriver, Phillips #2
- NI panel mounting kit, 782863-01
  - Panel mounting plate
  - M4 × 23 screw (x2)

## What to Do

Complete the following steps to mount the cRIO-9065 on a panel.



1. Align the cRIO-9065 and the panel mounting plate.
2. Fasten the panel mounting plate to the cRIO-9065 using the screwdriver and M4 × 23 screws. NI provides these screws with the panel mounting kit. Tighten the screws to a maximum torque of 1.3 N · m(11.5 lb · in.).



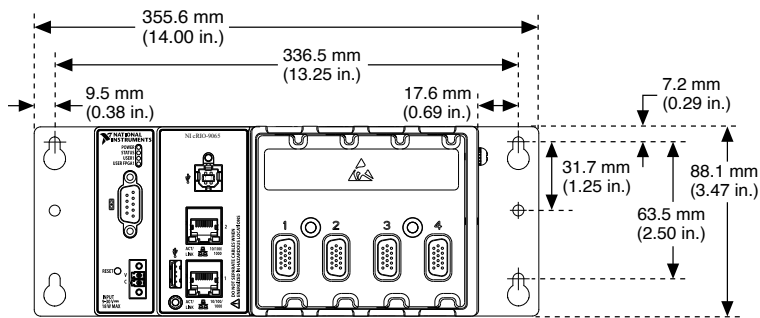
**Note** You must use the screws provided with the NI panel mounting kit because they are the correct depth and thread for the panel mounting plate.

3. Fasten the panel mounting plate to the surface using the screwdriver and screws that are appropriate for the surface. The maximum screw size is M5 or number 10.

## Panel Mounting Dimensions

The following figure shows the panel mounting dimensions for the cRIO-9065.

**Figure 9. cRIO-9065 Panel Mounting Dimensions**



## Mounting the Device on a DIN Rail

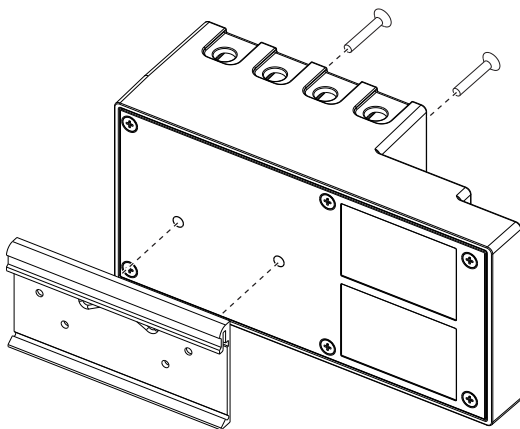
You can use the NI DIN rail mounting kit to mount the cRIO-9065 on a standard 35-mm DIN rail.

### What to Use

- cRIO-9065
- Screwdriver, Phillips #2
- NI DIN rail mounting kit, 779018-01
  - DIN rail clip
  - M4 × 25 flathead screw (x2)

### What to Do

Complete the following steps to mount the cRIO-9065 on a DIN rail.



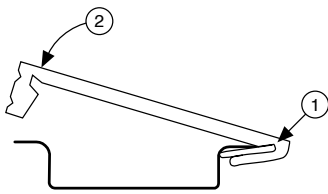
1. Align the cRIO-9065 and the DIN rail clip.
2. Fasten the DIN rail kit to the cRIO-9065 using the screwdriver and M4 × 25 flathead screws. NI provides these screws with the DIN rail mounting kit. Tighten the screws to a maximum torque of 1.3 N · m (11.5 lb · in.).



**Note** You must use the screws provided with the NI DIN rail mounting kit because they are the correct depth and thread for the DIN rail clip.

## Clipping the Device on a DIN Rail

Complete the following steps to clip the cRIO-9065 on a DIN rail.



1. Insert one edge of the DIN rail into the deeper opening of the DIN rail clip.
2. Press down firmly to compress the spring until the clip locks in place on the DIN rail.



**Caution** Ensure that no C Series modules are in the cRIO-9065 before removing it from the DIN rail.

## Mounting the Device on a Rack

You can use the following rack mount kits to mount the cRIO-9065 and other DIN rail-mountable equipment on a standard 482.6 mm (19 in.) rack.

- NI Sliding Rack-Mounting Kit, 779102-01
- NI Rack-Mounting Kit, 781989-01



**Note** You must use the NI DIN rail mounting kit, 779019-01, in addition to a rack-mounting kit.

## Mounting the Device on a Desktop

You can use the NI desktop mounting kit to mount the cRIO-9065 on a desktop.

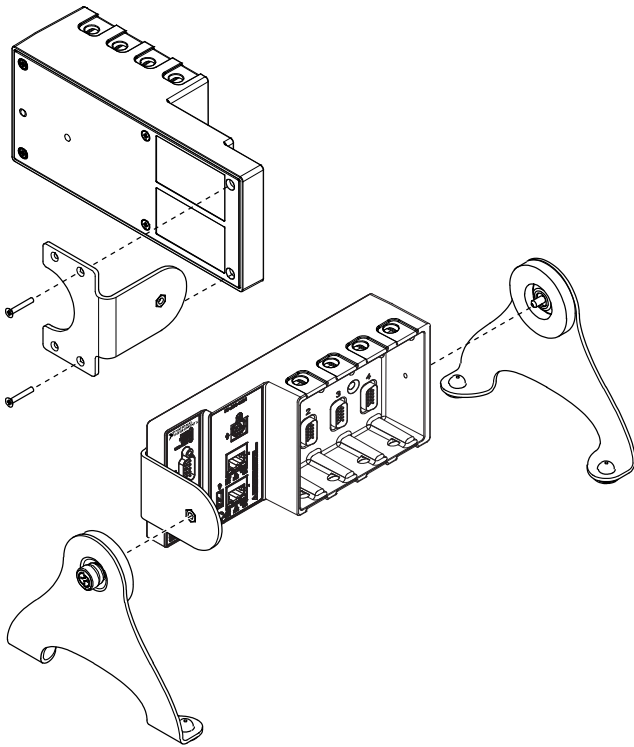
### What to Use

- cRIO-9065
- Screwdriver, Phillips #1
- Screwdriver, Phillips #2
- NI desktop mounting kit, 779473-01
  - Desktop mounting brackets (x2)
  - Adapter bracket
  - M3 × 20 screw (x2)

### What to Do

Complete the following steps to mount the cRIO-9065 on a desktop.





1. Use the Phillips #1 screwdriver to remove the two screws from the back of the cRIO-9065.
2. Use the screwdriver and the M3 × 20 screws to attach the adapter bracket to the cRIO-9065. NI provides these screws with the desktop mounting kit.

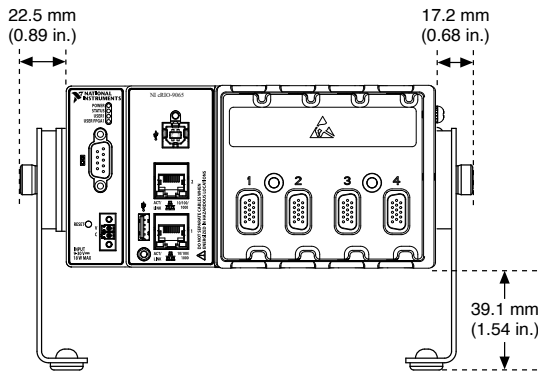
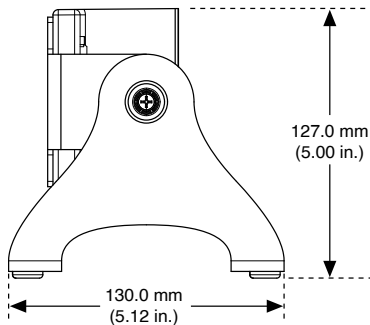


**Note** You must use the screws provided with the NI desktop mounting kit because they are the correct depth and thread for the cRIO-9065.

3. Align the brackets with the mounting holes on the ends of the cRIO-9065.
4. Use the Phillips #2 screwdriver to tighten the captive screws on the end of the brackets.

## Desktop Mounting Dimensions

The following figures show the desktop mounting dimensions for the cRIO-9065.

**Figure 10. cRIO-9065 Desktop Mounting Front Dimensions****Figure 11. cRIO-9065 Desktop Mounting Side Dimensions**

## Upgrading from the NI-9144 to the cRIO-9065

You can use the NI-9144 to cRIO-9065 adapter panel mounting kit (NI part number 785984-01) to mount the cRIO-9065 to an existing NI-9144 panel mounting plate. Contact NI for information about ordering a NI-9144 to cRIO-9065 adapter panel mounting kit.

## Mounting the NI 9145 Using the Adapter Kit

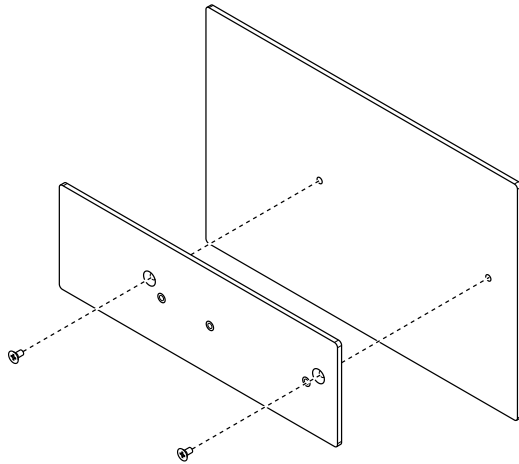
### What to Use

- NI 9145
- #2 Phillips screwdriver
- Two (2x) M4 or number 8 flathead screw, 10 mm (0.39 in.) minimum length, user-provided
- NI 9144 to NI 9145 adapter mounting plate kit, 785984-01
  - Adapter mounting plate
  - Three (3x) M4 x 23 mm screws

## What to Do

1. Remove the NI 9144 from the NI 9144 panel mounting plate.
2. Align the adapter mounting plate with the holes in the NI 9144 panel mounting plate.
3. Fasten the adapter mounting plate to the NI 9144 panel mounting plate using the M4 or number 8 flathead screws.

**Figure 12.** Attaching the Adapter Mounting Plate to the NI 9144 Panel Mounting Plate

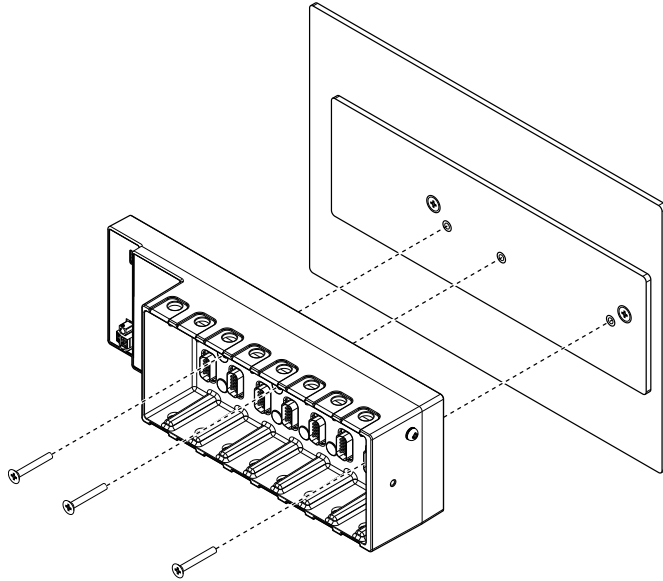


4. Align the NI 9145 chassis to the adapter mounting plate and fasten it using the M4 x 23 mm screws.

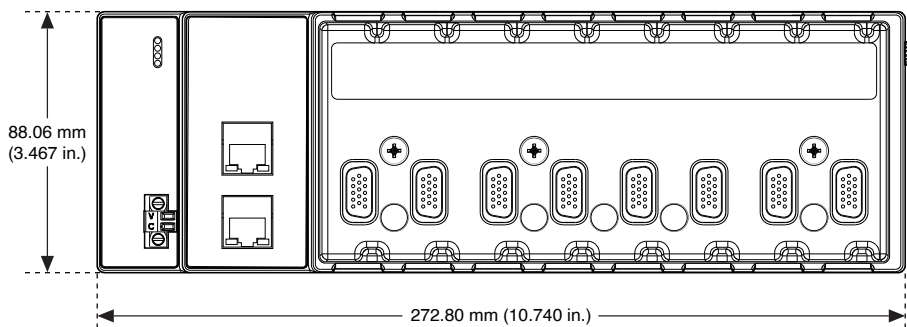


**Note** You must use the screws included in the kit because they are the correct depth and thread for the chassis and the adapter mounting plate. Tighten the screws to a maximum torque of 1.3 N · m (11.5 lb · in.).

**Figure 13.** Attaching the NI 9145 to the Adapter Mounting Plate



## NI 9144 to NI 9145 Adapter Mounting Plate Dimensions



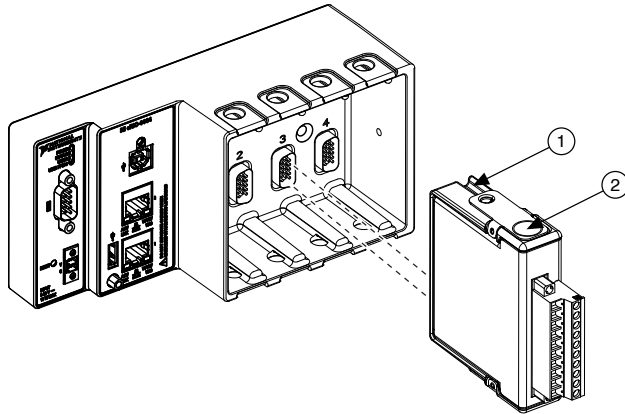
## Installing C Series I/O Modules in the Chassis



**Note** Before you install a C Series I/O module in the chassis, ensure that no I/O-side power is connected to the module. If the device is in a nonhazardous location, the chassis power can be on when you install modules.

Complete the following steps to install a C Series I/O module in the chassis.

1. Align the module with a slot in the chassis, as shown in the following figure. The module slots are labeled 1 to 4, left to right.

**Figure 14.** Installing a C Series I/O Module in the Chassis

1. Insertion groove
2. Latch
2. Squeeze the latches and insert the module into the slot.
3. Press firmly on the connector side of the module until the latches lock the module into place.
4. Repeat these steps to install additional modules.

## I/O Module Arrangements

For the cRIO-9065, NI InsightCM requires static and dynamic C Series I/O modules installed in a specific arrangement. The following table lists the module types you can install in slots under the different arrangements that NI InsightCM supports.

**Table 1.** cRIO-9065 I/O Module Arrangements

Slot Number	Supported Arrangements					
	CMS 1	CMS 2	CMS 3	CMS 4	MMS	EMSA
1	Static	Dynamic	Dynamic	Dynamic	NI 9242	NI 9770
2	Static	Dynamic	Dynamic	Dynamic	NI 9239	NI 9770
3	Static	Static	Dynamic	Dynamic	NI 9239	NI 9770
4	Static	Static	Dynamic	Dynamic	NI 9239	NI 9770
5	Static	Static	Dynamic	Dynamic	NI 9239	NI 9770
6	Static	Static	Dynamic	Dynamic	NI 9239	NI 9770
7	Static	Static	Static	Dynamic	NI 9239	NI 9770
8	Static	Static	Static	Dynamic	NI 9239	NI 9770



**Note** You do not need to fill every slot in the chassis. Fill the slots in order following the arrangements in Table 1.

## Arrangements with Dynamic Modules

If the arrangement contains any dynamic input modules, such as the NI 9232, install those modules in adjacent slots beginning with slot 1. You must fill at least slot 1. After slot 1, fill module slots in ascending order.

For example, if the CMS-9065 arrangement contains NI 9232 dynamic input modules and NI 9205 and NI 9425 static input modules, install the modules in the order shown in the following table:

**Table 2.** Example CMS-9065 Arrangement

CMS-9065 Slot Number	Module Installed	Module Type
1	NI 9232	Dynamic
2	NI 9232	Dynamic
3	NI 9232	Dynamic
4	NI 9232	Dynamic
5	NI 9232	Dynamic
6	NI 9232	Dynamic
7	NI 9205	Static
8	NI 9425	Static

## Arrangements with Only Static Modules

If the arrangement contains only static modules, install the modules in adjacent slots beginning with slot 1. You must fill at least slot 1. After slot 1, fill module slots in ascending order.

For example, if the cRIO-9065 arrangement contains NI 9205, NI 9207, NI 9211, and NI 9213 static input modules, install the modules in the order shown in the following table:

**Table 3.** Example cRIO-9065 Arrangement

cRIO-9065 Slot Number	Static Module Installed
1	NI 9205
2	NI 9207
3	NI 9211
4	NI 9213

## Removing I/O Modules from the Chassis



**Note** Before you remove a C Series I/O module from the chassis, ensure that no I/O-side power is connected to the module. If the device is in a nonhazardous location, the chassis power can be on when you install modules.

To remove a C Series I/O module from the chassis, squeeze the latches on both sides of the module and pull the module from the chassis.

## Connecting to a Network

Use a standard Category 5 (CAT-5) or better shielded, twisted-pair Ethernet cable to connect the RJ-45 Ethernet port on the cRIO-9065 to an Ethernet hub.



**Caution** To prevent data loss and to maintain the integrity of your Ethernet installation, do not use a cable longer than 100 m.

The first time you power up the cRIO-9065, it attempts to initiate a DHCP network connection. If the cRIO-9065 cannot initiate a DHCP connection, it connects to the network with a link-local IP address with the form 169.254.x.x. After the chassis powers up, refer to [Resetting the Network Configuration of the NI InsightCM cRIO Controller](#).

## Grounding the Chassis

Complete the following steps to connect the chassis grounding terminal to the grounding electrode system of your facility.

1. Attach a ring lug to a  $2.0 \text{ mm}^2$  (14 AWG) or larger wire.
2. Remove the grounding screw from the grounding terminal on the right side of the chassis.
3. Attach the ring lug to the grounding terminal.
4. Tighten the grounding screw to  $0.5 \text{ N} \cdot \text{m}$  ( $4.4 \text{ lb} \cdot \text{in.}$ ) of torque.
5. Attach the other end of the wire to the grounding electrode system of your facility using a method appropriate for the application.



**Note** If you use shielded cabling to connect to a C Series I/O module with a plastic connector, attach the cable shield to the chassis grounding terminal using  $1.3 \text{ mm}^2$  (16 AWG) or larger wire. Attach a ring lug to the wire and attach the wire to the chassis grounding terminal. Solder the other end of the wire to the cable shield. Use shorter wire for better EMC performance.

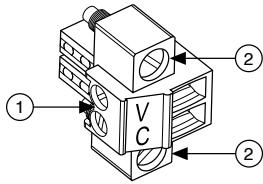
For more information about ground connections, visit [ni.com/info](https://ni.com/info) and enter the Info Code `emcground`.

## Wiring Power to the Controller

The cRIO-9065 requires an external power supply that meets device specifications. The cRIO-9065 filters and regulates the supplied power and provides power for all I/O modules installed in the chassis. The cRIO-9065 has one layer of reverse-voltage protection.

The following figure shows the terminal screws, which secure the wires in the screw terminals, and the connector screws, which secure the power connector on the front panel.



**Figure 15.** COMBICON Power Connector

1. Terminal screws
2. Connector screws

Complete the following steps to connect a power supply to the chassis.

1. Ensure that your power supply is powered off.
2. Connect the positive lead of the power supply to the V terminal of the screw terminal power connector shipped with the chassis, and tighten the terminal screw.
3. Connect the negative lead of the power supply to the C terminal of the power connector and tighten the terminal screw.
4. Install the power connector on the front panel of the chassis and tighten the screw flanges.

## Powering On the Controller

When you apply power to the CompactRIO device, the controller runs a power-on self test (POST). The Power and Status LEDs turn on briefly. When the Status LED turns off, the POST is complete. If the LEDs do not behave in this way when the device powers on, refer to the information in this document about understanding LED indications.

## Understanding LED Indications on the Controller

The following figure shows the LEDs on the cRIO-9065.

### POWER LED

The POWER LED is lit while the cRIO-9065 is powered on. This LED indicates that the power supply connected to the controller is adequate.


## STATUS LED

The STATUS LED is off during normal operation. After the device powers on, the cRIO-9065 indicates specific error conditions by flashing the STATUS LED a certain number of times every few seconds. If you observe this behavior after the device powers on, contact NI support.

## USER1 LED

The USER1 LED can display the indications described in the following table:

**Table 4.** USER1 LED Indications

Indication	Description
Flashing rapidly	Indicates an error condition. Open the InsightCM web application to the Devices tab on the Dashboard page to see the device status.
Flashing steadily	Indicates normal operation.
Solid	<p>Indicates that USB operations are in progress, such as reading or writing the connection information file. You can safely remove the USB drive when this LED resumes blinking steadily.</p> <div>  <p><b>Note</b> This device polls USB drives every 15 seconds, so you might need to wait up to 15 seconds after a USB operation begins for the LED to light.</p> </div>

## USER FPGA1 LED

NI Monitoring Devices do not use the USER FPGA1 LED.

## Troubleshooting Network Communication

If the CMS/MMS/EMSA-9065 does not connect to NI InsightCM Application with a status

of Online, try the following troubleshooting tips:

- Check the Ethernet cable connections on the CMS/MMS/EMSA-9065, host computer, and router.
- If you have network firewalls or other security software enabled, try temporarily turning them off. You might also need to add an exception for NI InsightCM Application by completing the following steps:
  1. Navigate to the standard Microsoft Windows Control Panel utility for managing firewall settings.
  2. Click **Allow a program or feature through Windows Firewall**.
  3. Click **Allow another program**.
  4. Select **NI InsightCM** and click **Add**.
  5. Click **OK** and close the firewall settings.
- Ensure that the ports are open to communication on the host computer. If you are using an intelligent switch on the network, ensure that the switch is not disabling these ports. Refer to the **NI InsightCM Readme** on [ni.com/manuals](http://ni.com/manuals) for more information about host computer ports.
- If you have multiple network cards on the host computer, ensure that you use the Windows Control Panel to disable all other network adapters, such as wireless adapters. Turning off the wireless antenna is insufficient.

## Resetting the Network Configuration of the Controller

Complete the following steps to reset the IP address and connection type of the controller.

1. Insert the USB drive into the USB port on the controller front panel. Within 20 seconds, the USER1 LED lights solid, which indicates that the device is reading from or writing to the settings file.



**Tip** You can use the blank USB drive included in the NI InsightCM Application kit, if available.

2. Remove the USB drive when the USER1 LED returns to blinking steadily.
3. Insert the USB drive into a USB port on a computer.
4. Browse the file structure of the drive to the `<RootLevel>:\InsightCM\download\NI-cRIO-ModelNumber-SerialNumber` directory.

5. To view the current IP address, skip to step 6. To change the IP address or set the IP address to be static, copy the JSON file beginning with `networkInfo_` followed by the device hostname, such as `networkInfo_NI-cRIO-ModelNumber-SerialNumber.json`, to the `<RootLevel>:\InsightCM\upload` directory on the USB drive. You might need to create the `upload` folder.
6. Open the JSON file beginning with `networkInfo_` followed by the device hostname.
7. In the array that contains the line `"IsPrimary":true`, the following line displays the current IP address:

```
"IP Address":"x.x.x.x"
```

where `x.x.x.x` is the IP address.

8. To change the IP address, enter the value you want to use. Otherwise, record the IP address.
9. (Optional) To assign a static IP address, configure the following line in the array as shown:

```
"IP Address Request Mode":"1"
```

10. Save and close the file.
11. If you made changes to the file, insert the USB drive back into the USB port on the controller front panel. The USER1 LED lights solid, which indicates that the device is reading network and connection properties. You can remove the USB drive when the USER1 LED returns to blinking steadily.






**Tip** To verify that the device successfully applied changes you made to the file, reinsert the USB drive in a computer and browse to the `<RootLevel>:\InsightCM` directory. If the changes were successfully applied, the `upload` folder no longer contains the JSON file you edited, instead, a folder named `applied` contains the file.

## Where to Go Next

The following figure describes additional documentation and resources as you use the CMS/MMS/EMSA-9065.

**Figure 1. Where to Go Next**

1	NI InsightCM™ Configuration and Monitoring Help		Help system with instructions for configuring the NI InsightCM application and monitoring NI Monitoring devices. To launch this help, open the InsightCM web application in a web browser and click the <b>Help</b> link in the top-right corner of the page.
2	CompactRIO Controller and Chassis Datasheets		Device specifications, including power requirements, physical characteristics, safety and environmental information, and other important information. Visit <a href="http://ni.com/manuals">ni.com/manuals</a> and search your device.
3	C Series Module Documentation		Operating instructions and device specifications for C Series modules that you can install in a CompactRIO chassis. These documents describe how to connect sensors, actuators, and other devices to C Series modules. Visit <a href="http://ni.com/info">ni.com/info</a> and enter the Info Code <code>insightcmdocs</code> to access documentation for C Series modules that are compatible with NI InsightCM.

## Worldwide Support and Services

Visit [ni.com/support](http://ni.com/support) to find support resources including documentation, downloads, and troubleshooting and application development self-help such as tutorials and examples.

Visit [ni.com/services](http://ni.com/services) to learn about NI service offerings such as calibration options, repair, and replacement.

Visit [ni.com/register](http://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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