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**PXIe-1085**

## INSTALLATION GUIDE

# Chassis Fan Intake/Exhaust Air Diverter

This guide describes how to mount an air diverter to an 18-slot PXI or PXI Express chassis. This accessory can be used to divert chassis exhaust air to the rear or front of a rack, or bring air to the chassis air inlet from the front or rear of the chassis. These accessories are designed to work with a universal 19 in. (482.6 mm) rack opening (EIA-310-D) and occupy one rack unit 1.75 in. (44.45 mm) above and/or below a chassis.

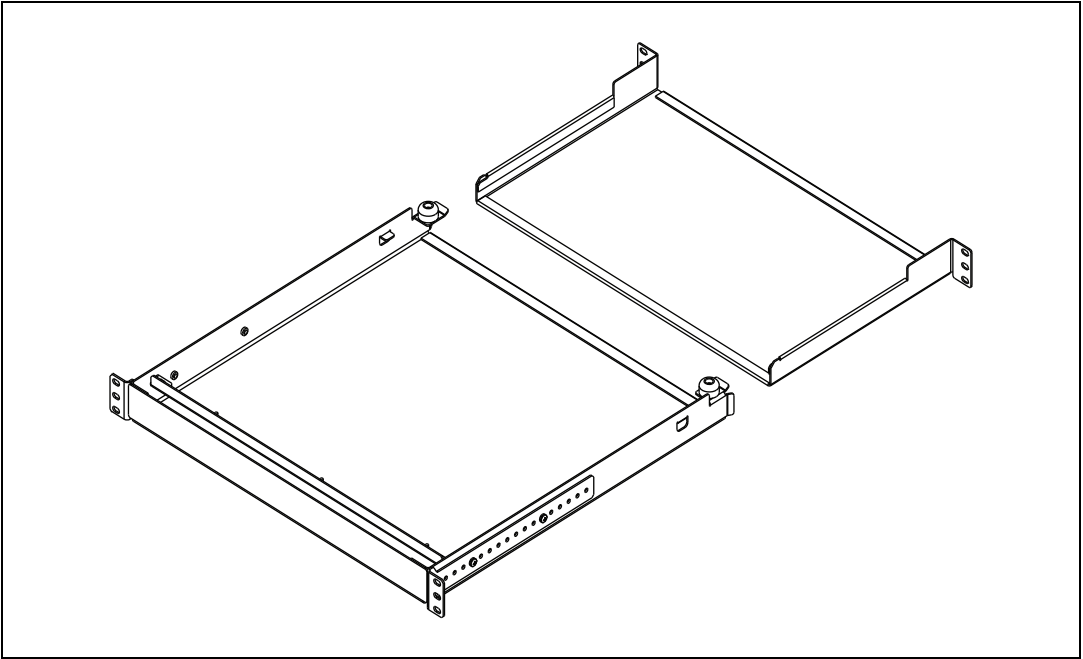
There are two types of air diverters. An extended version, NI Part Number (782508-01), is for intake or exhaust from the rear of the rack. A smaller version, NI Part Number (782508-02), is for intake or exhaust from the front of the rack.

There are many configurations possible to meet your specific application. Table 1 indicates supported configurations, contact NI sales with any questions regarding your specific application.

**Table 1.** Supported Air Diverter Configurations

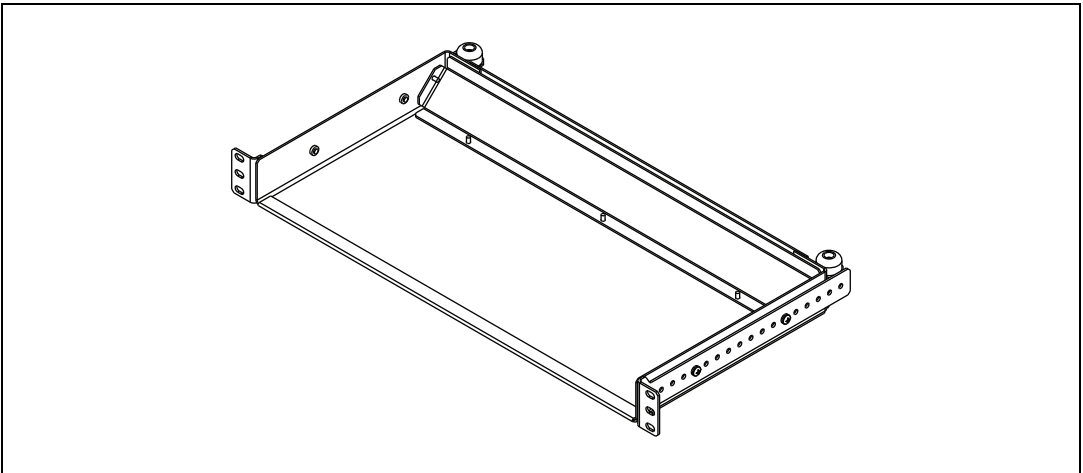
	Chassis Exhaust Position		Chassis Intake Position	
Chassis Configuration	Front	Rear	Front	Rear
NI PXIe-1066DC	✓	✓	✓	✓
4U 18-Slot Chassis*	✓	—		
* Intake is fixed at rear of chassis				

Figure 1 shows the rear-facing extended air diverter.



**Figure 1.** Extended Chassis Intake/Exhaust Air Diverter (Part Number 782508-01)

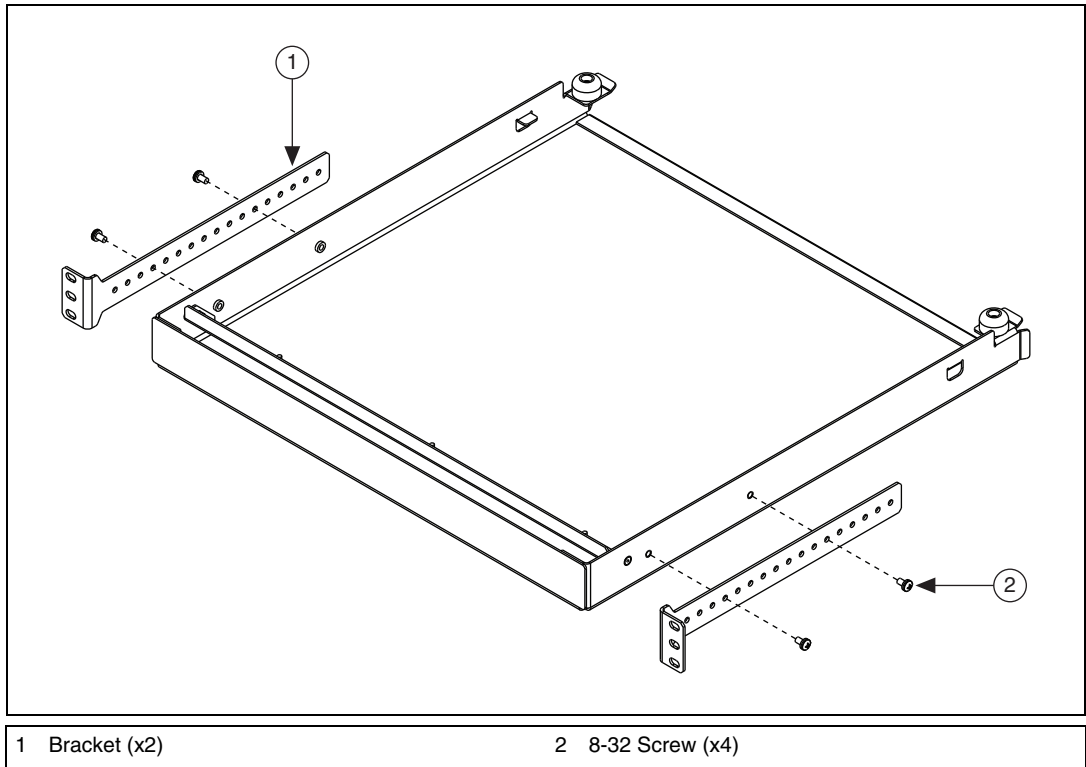
Figure 2 shows the forward-facing air diverter.



**Figure 2.** Chassis Intake/Exhaust Air Diverter Extension (Part Number 782508-02)

Complete the following steps to mount side brackets to an air diverter:

1. Tighten the supplied screws to 11.5 in · lb. (1.3 n · m) recommended torque.
2. Adjust the depth of the diverter as required.

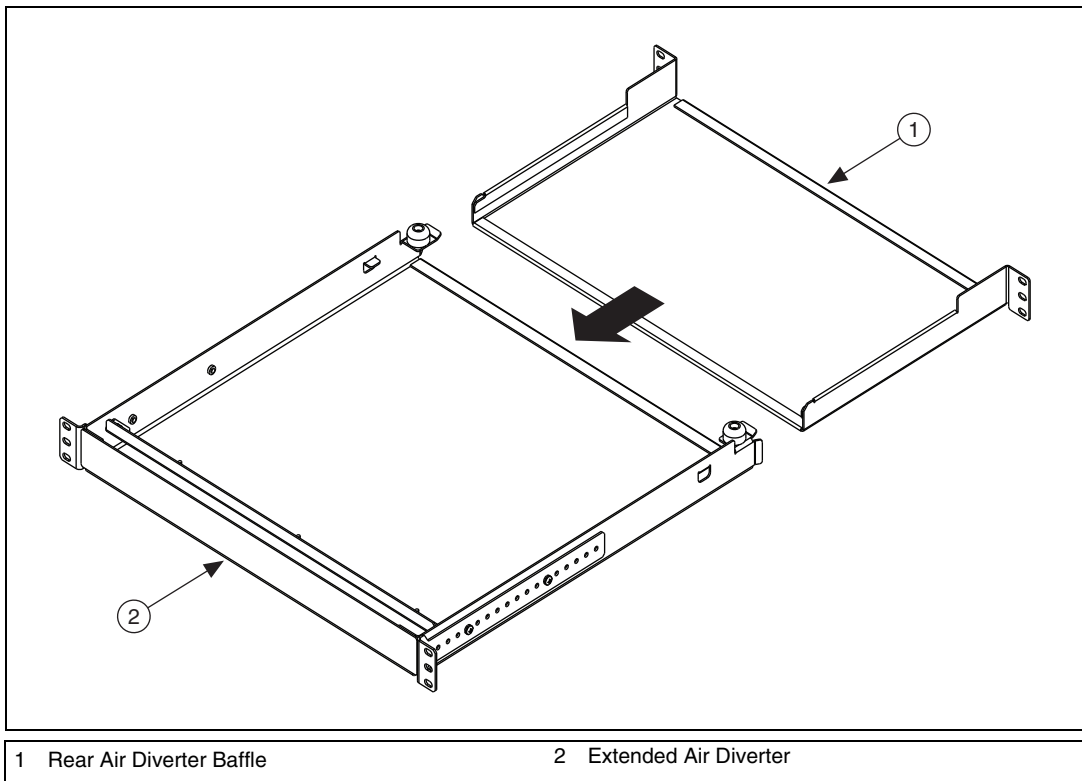


**Figure 3.** Installing Side Brackets to an Air Diverter

To attach the extended air diverter complete the following steps:

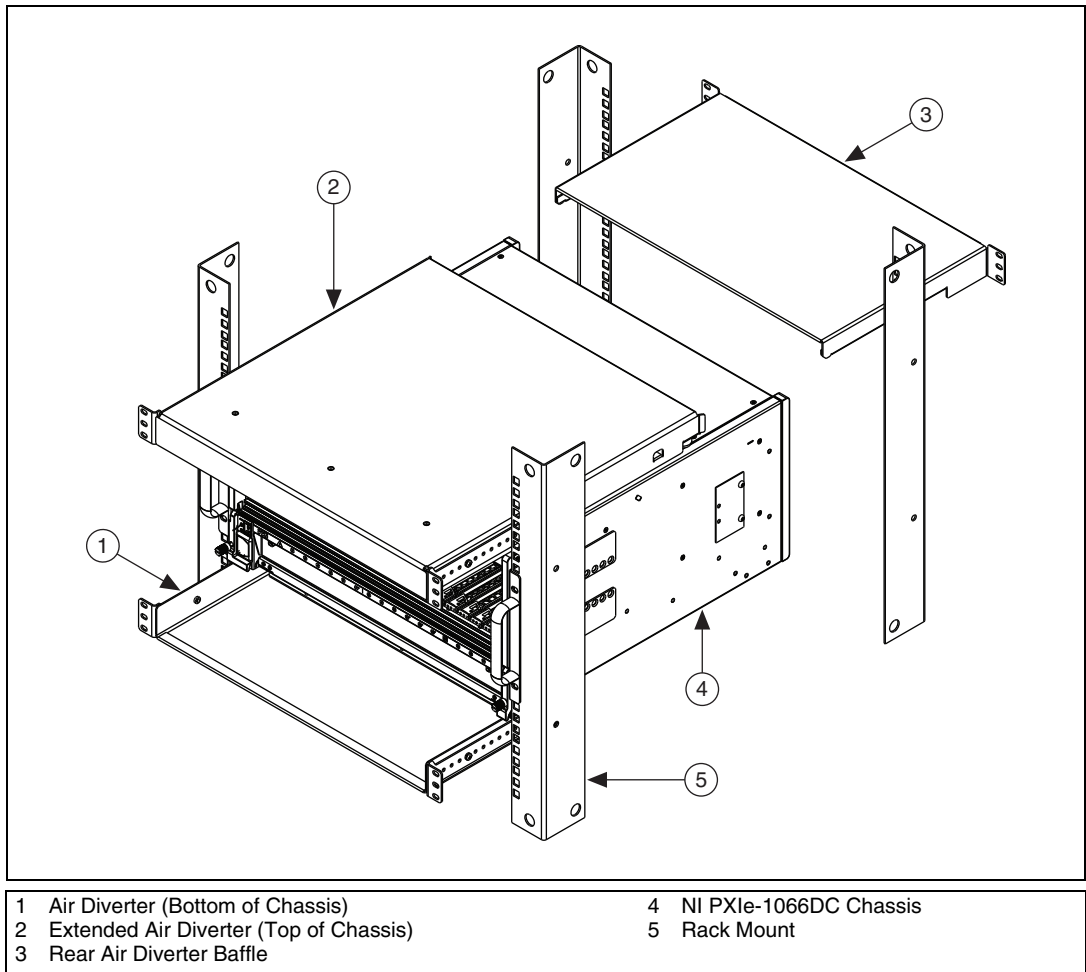
1. Slide the rear air diverter baffle into the extended air diverter.
2. Adjust for rack depths of 20-24 in.

The following figure shows how to connect the extended air diverter.



**Figure 4.** Attaching the Extended Chassis Intake/Exhaust Air Diverter

The following figure depicts an example configuration using a NI PXIe-1066DC chassis with air intake front/bottom and air exhaust top/rear.



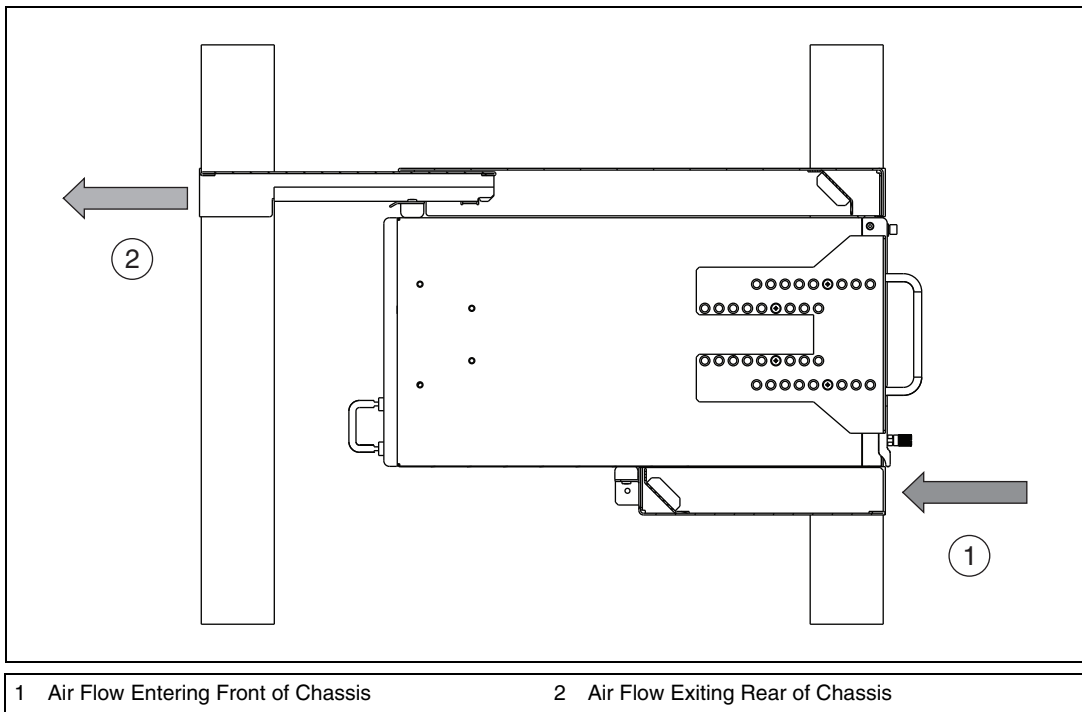
**Figure 5.** Exploded View of an Example Configuration

Complete the following steps to mount the air diverter (refer to the previous figures for parts and locations):

1. If present, remove the bottom feet, side feet, and COA label plate (as required) from the chassis.
2. Remove the side handle.
3. Position air diverter directly above and/or below chassis.
4. Attach the air diverters and baffle to the rack mount with appropriate screws (not included) for the rack.



**Note** The bracket allows for #10-32, #12-24, M5, and M6 screws.



**Figure 6.** Example Configuration Showing Air Flow Through Chassis  
(One Potential Configuration Shown)

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