

# Installing an Auxiliary Cooling System on an ERX-1440 Edge Router

## Overview

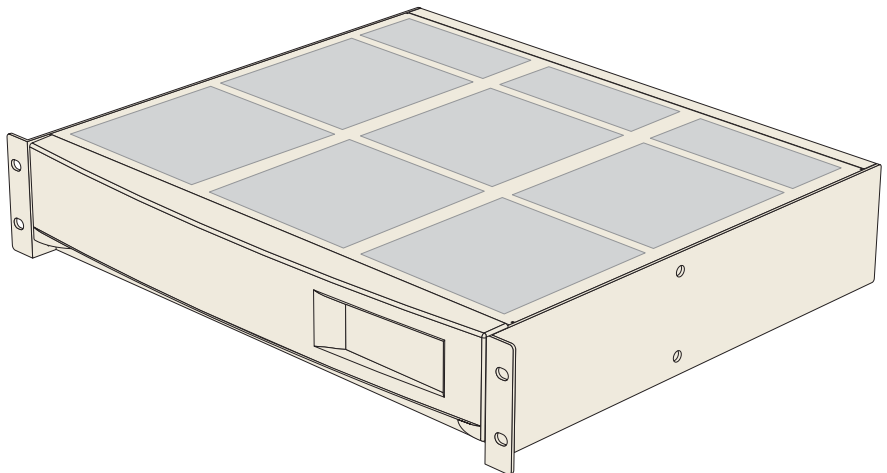
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The ERX-1440 auxiliary cooling system (ACS) is a 2U (3.50 inch) 19-inch rack-mountable device designed to provide redundant cooling for the ERX-1440 edge router chassis. (Figure 1) The unit mounts independently above the chassis to create a tandem exhaust cooling system.

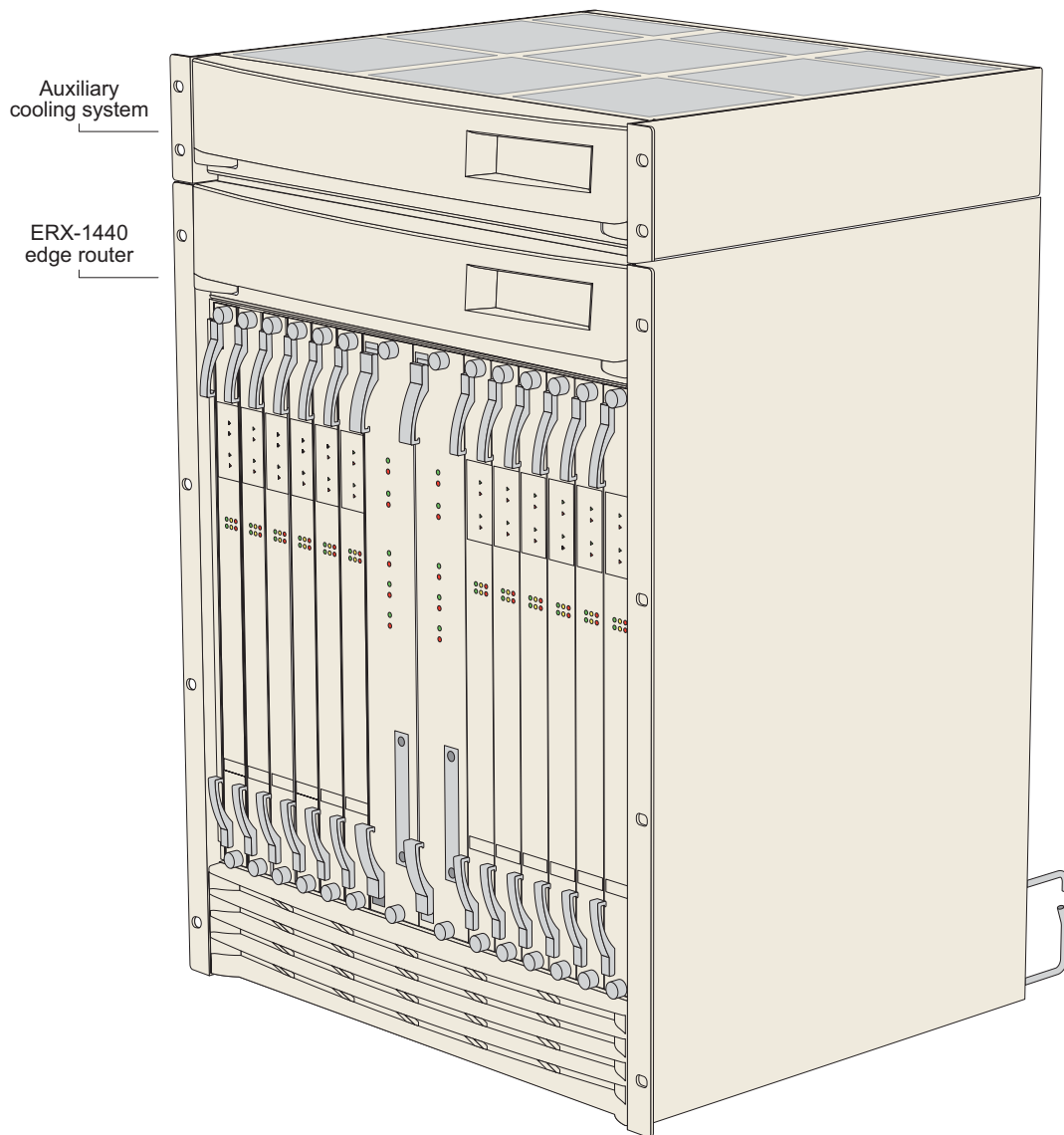
A gasket on the bottom of the unit provides a seal with the main chassis and prevents additional airflow from outside the system. Power and fan failure sensing is provided through a rear cable that connects to the SRP I/O module. Dual stud ground lugs on the ACS provide common earth bonding with other equipment. The ACS uses the same fan tray that the ERX-1440 chassis uses.



**Note:** The ACS can be used only with an ERX-1440 router with the appropriate SRP I/O module installed.



**Figure 1** ERX-1440 auxiliary cooling system (ACS)



**Figure 2** Auxiliary cooling system installed above an ERX-1440 edge router

## Installing the Auxiliary Cooling System

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To install an ERX-1440 auxiliary cooling system:

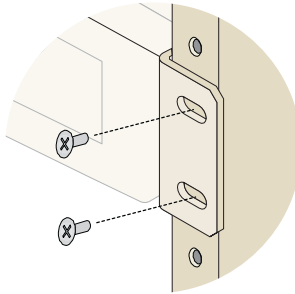
- 1 Place the ACS squarely on top of the ERX-1440 chassis so that the mounting ears are flush against the equipment rack.

Allow the unit to seat freely on the chassis and create a snug seal.



**Note:** Be sure that the holes of the mounting brackets align evenly with the holes of the equipment rack on both sides and that there is no space between the ACS and the chassis (Figure 2).

- 2 Secure the ACS with two 10-32 Phillips screws and associated nuts per mounting bracket (Figure 3).

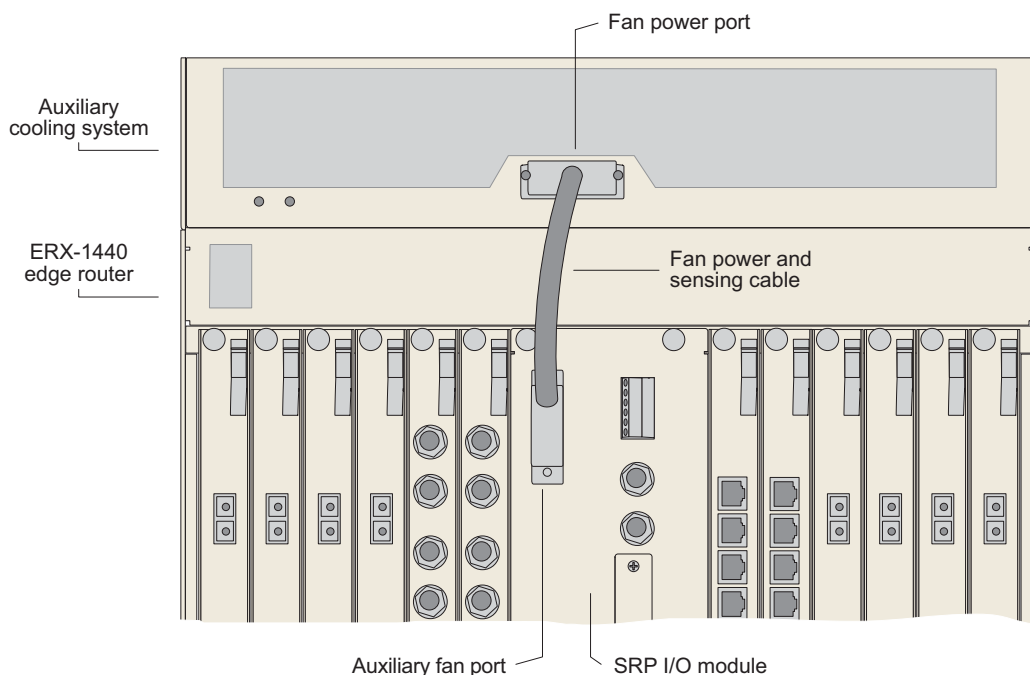


**Figure 3** Securing the ACS to the equipment rack

## Connecting the ACS to the SRP I/O Module

To establish power for the ACS and set up fan redundancy for the ERX system:

- 1 Connect grounding cables to the ACS.
- 2 Plug the fan power and sensing cable into the fan power port on the rear of the ACS, and tighten the screws (Figure 4).



**Figure 4** Cabling the ACS and SRP I/O module (rear view)

- 3 Plug the other end of the cable into the auxiliary fan port of the SRP I/O module, and tighten the screws (Figure 4).

## Determining Fan Status

Fan status for the ERX system is indicated with LEDs on the SRP module and on the ACS. If the failed LED lights on the SRP module, remove the front faceplate of the ACS to discover which fan tray has a problem.

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Revision History  
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