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Installation Guide

DAQ Board Accessories Rack-Mount Kit

This guide describes how to assemble the rack-mount hardware for the AMUX-64T analog multiplexer board and the SC-205X, SC-206X, SC-207X, and BNC208X Series signal conditioning boards in a standard 19-in. rack-mount cabinet.

Introduction

There are four versions of the rack-mount kit—single- and double-height kits with an acrylic plastic cover, and single- and double-height kits with a metal wraparound cover. The metal wraparound cover kits are ideal for high-voltage applications. However, we do not recommend the metal wraparound cover kits for use with the BNC-208X Series boards.

What You Need to Get Started

You will need the following parts from your DAQ board accessories rack-mount kit, depending on the version you have:

❑ Plexiglas cover kit

Item	Component	Quantity
2	Cover, rack-mount, Plexiglas	1
4	Washer, flat, #4, nylon	4

❑ Metal wraparound cover kit

Item	Component	Quantity
2	Cover, rack-mount, metal wraparound	1
4	Washer, flat, #4, SS	4

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❑ Double-height kits

Item	Component	Quantity
5	Support bracket, AMUX, type 2	2
6	Screw, 6-32 x 1/4, FLHD, PHIL, SS	4

❑ You will also need the following items from your kit, regardless of which version you have. All of the DAQ board accessories rack-mount kits have the following items:

Item	Component	Quantity
1	Bracket, rack-mount, 5.25 in., type DA	1
3	Screw, 4-40 x 1/4, PHN, SS	4
7	Foot, rubber adhesive	4
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In addition, you will need:

❑ 1-point Phillips-head screwdriver for assembling the rack-mount kit

❑ flathead screwdriver for installing the kit into a cabinet

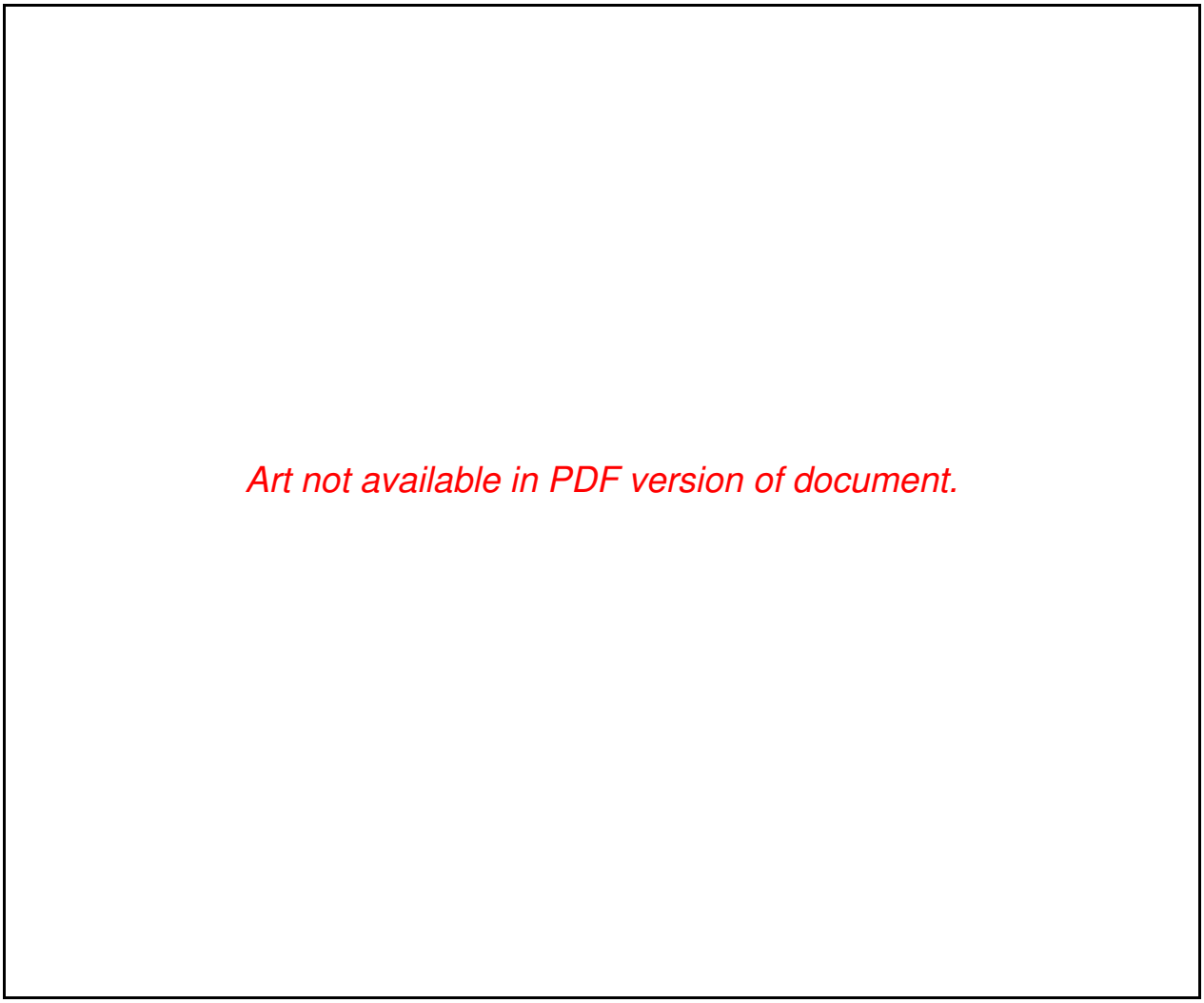
❑ circuit card assemblies.

Mounting Space

The following table shows how much space each accessory requires in a single-height rack-mount kit. Three SC-205X (except for the SC-2054) or SC-206X boards fit into one rack-mount kit. You can mix SC Series accessories in one rack-mount kit. For example, you can use one SC-2051 with two SC-206X units, or one SC-2051 with one SC-207X.

Accessory	Width Required
AMUX-64T	Two-thirds
SC-2050, SC-2051, SC-2052, SC-2053	One-third
SC-2054	One-half
SC-206X Series	One-third
SC-207X Series	One-half
BNC-208X Series	One-half

Installation Procedure



Refer to the preceding figure and perform the following steps:

1. Attach the rubber adhesive feet (item 7) onto the bottom of the rack-mount bracket (item 1).

2. If you are building a double-height kit, install the support brackets (item 5) using the 6-32 x 1/4 screws (item 6).

3. Install the circuit card assemblies. You purchase the assemblies separately. Mounting screws and hardware are supplied with the assemblies.

4. Install the cover (item 2) using the 4-40 x 1/4 screws (item 3) and the #4 flat washer (item 4).

5. Place the completed rack-mount kit into a standard 19-in. rack-mount cabinet and secure the assembly.