SNAP-RCK-M2B Rack Adapter Installation

Introduction

SNAP PAC I/O processors (brains and rack-mounted controllers) are designed to mount on SNAP PAC racks. However, if you have an older system and you need to use a SNAP PAC brain or rack-mounted controller on an existing SNAP B-series rack, the SNAP-RCK-M2B rack adapter makes it possible.

The adapter works with the following part numbers:

Install the adapter to use one of these processors...	...on one of these racks
SNAP-PAC-R1 SNAP-PAC-R2 SNAP-PAC-EB1 SNAP-PAC-EB2	SNAP-B4M SNAP-B8M SNAP-B8MC SNAP-B8MC-P SNAP-B12M SNAP-B12MC SNAP-B12MC-P SNAP-B16M SNAP-B16MC SNAP-B16MC-P
NOTE: The adapter can also be used with a SNAP-UP1-M64 or SNAP-ENET-S64 brain.	

Important Notes

Change in height: The adapter adds 0.675 inches (1.715 cm) to the overall height of the unit.

Change in connector location: After installation of the adapter, the brain or controller's position will be *reversed* on the rack (as well as being higher in relation to the rack), and letters on the lid will be upside down. Make sure that cables can still reach the connectors on the processor.

No new features: The adapter does not change the capabilities of the rack. For example, four-channel digital modules still cannot be placed in module positions 8 and higher. In order to use newer features on the brain or controller, it must be on a SNAP PAC rack (or an M-series rack, such as the SNAP-M64).

Installing the Adapter

Before installing the rack adapter, read Opto 22 form #1688, the *SNAP PAC System Migration Technical Note*, for important information on mixing legacy hardware with SNAP PAC system hardware and software. This form is available on our website, www.opto22.com. The easiest way to find it is to search on the form number.
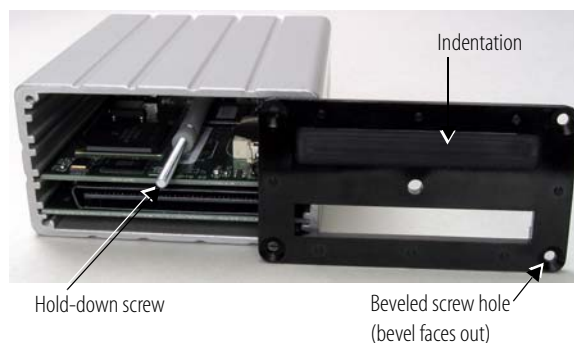
Requirements

Part number SNAP-RCK-M2B includes the following pieces:

- Lock washer
- 6-32 hex standoff
- Replacement baseplate
- Adapter

You will also need a medium-sized Phillips screwdriver to install the adapter.
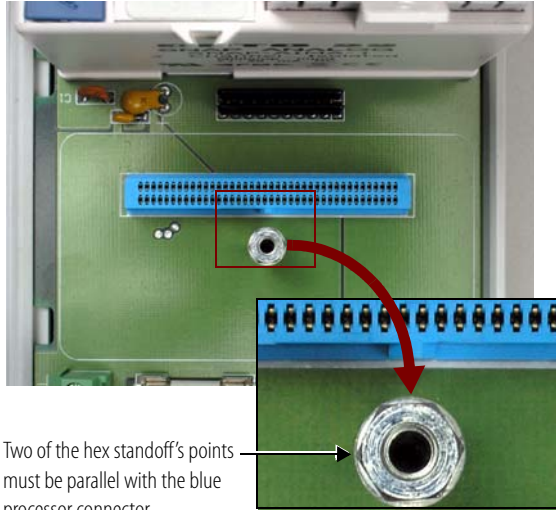
Installation Steps

1. Remove all SNAP-RCK-M2B pieces from their packaging.
2. Turn off power to the rack.
3. Disconnect Ethernet cables from the existing processor on the rack. Loosen the screw holding the processor on the rack and remove the processor. Set it aside.
4. Turn the new processor (brain or controller) upside down. Remove the four small screws holding the black baseplate on the processor, and remove the baseplate. Keep the screws.
5. Hold the replacement baseplate so that its indentation is facing away from the brain (see the following photo).

Indentation

Hold-down screw

Beveled screw hole (bevel faces out)

6. Align the brain's hold-down screw with the center hole in the replacement baseplate. Using the same four screws, attach the replacement baseplate to the new processor.
7. On the rack, set the lock washer over the hole next to the processor's connector, and then screw the 6-32 hex standoff into the hole. Tighten the standoff just to the position where two of
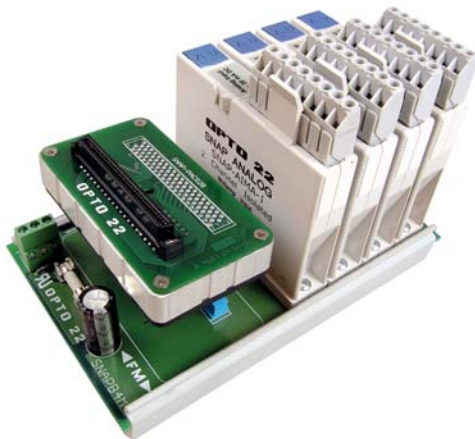
the hex points are parallel with the connector, as shown in the following photo.

Two of the hex standoff's points must be parallel with the blue processor connector.

8. Holding the rack adapter with its part number visible on the top and the blue connectors aligned underneath, set it in position on the rack.

    If it does not go on easily, make sure the hex nut's points are properly aligned, parallel with the processor connector.

9. Align the new processor's black connector with the mating connector on the rack adapter, and make sure the indentation in the baseplate aligns with the silver pins on the adapter.

    The processor's position is now reversed on the rack (that is, letters on the processor's lid are upside down).

10. Seat the processor onto the connector and use the hold-down screw to secure the brain in position. Do not overtighten.

11. Replace cables and restore power to the rack.

If the new processor does not have an IP address, follow instructions in the PAC Manager User's Guide to assign it. Consult form #1688, the *SNAP PAC System Migration Technical Note*, for important information on using the new processor with the older rack.

For Help

If you have trouble installing or using the rack adapter and cannot find the help you need in this document or on our website, contact Opto 22 Product Support.

Opto 22 Product Support

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