⚠ CAUTION: Before proceeding, refer to the "Important Regulatory and Safety Notices to Service Personnel" document that was included with your unit. It is also recommended to refer to the *NEWT-IPX User Guide* which is available for download from our website.

This document outlines how to install a NEWT-IPX on a 1RU Shelf, and then install the 1RU Shelf in a rack frame.

Before You Begin

The 1RU Shelf supports up to three NEWT-IPX modules, each module installed in a separate slot on the 1RU Shelf. The slot a NEWT-IPX will use determines the placement of the Ear Bracket on the NEWT-IPX chassis.

Before proceeding, it is recommended to:

* determine how many NEWT-IPX modules you will install and

* determine the slot(s) on the 1RU Shelf you will install the NEWT-IPX into

Installation Requirements

You will need:

* One Phillips #2 screwdriver

* One 1RU Shelf with L-Brackets Kit (Ross P/N NEWT-SHELF-KIT)

* At least one NEWT-IPX module (a maximum of three modules can be installed on the 1RU Shelf)

Installing the NEWT-IPX in the Middle Slot

To install the NEWT-IPX in the middle slot you must first install the L-Brackets to the front edge of the shelf. The L-Brackets are used to secure the NEWT-IPX to the 1RU Shelf. Refer to **Figure 1** for install details.
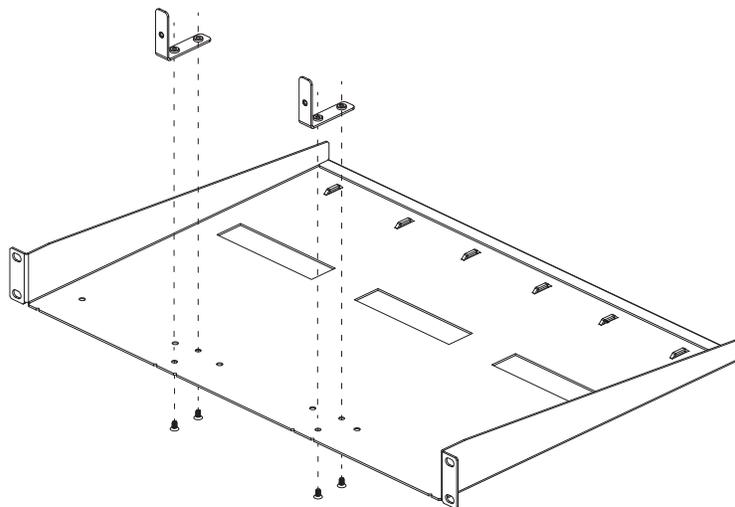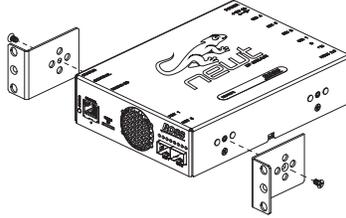

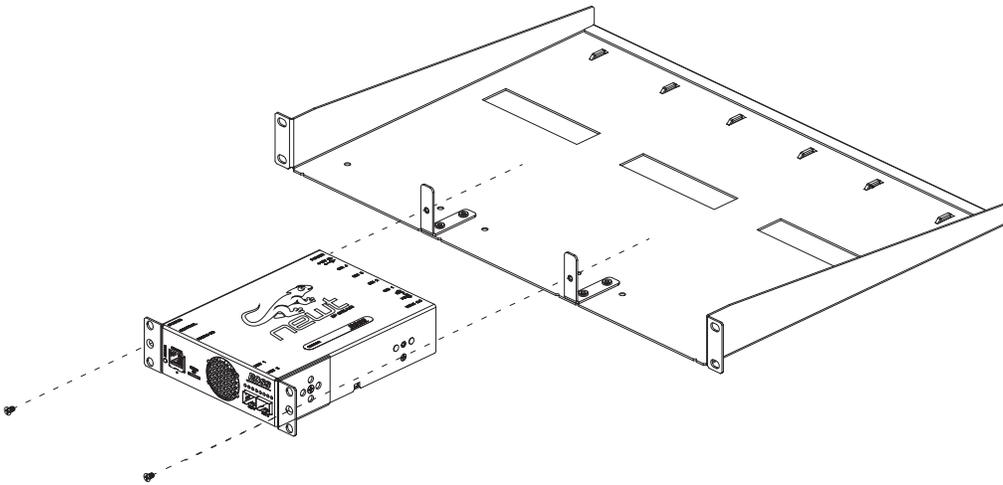
Figure 1 *Installing the L-Brackets*

To install the Ear Brackets to the NEWT-IPX

1. Affix an Ear Bracket to the left side of the NEWT-IPX.

2. Affix an Ear Bracket to the right side of the NEWT-IPX.

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To install the NEWT-IPX in the middle slot of the 1RU Shelf

1. Position the NEWT-IPX between the L-Brackets installed on the shelf.

2. Affix the NEWT-IPX to the left L-Bracket using a #6-32 screw through the middle hole on the corresponding Ear Bracket.

3. Affix the NEWT-IPX to the right L-Bracket using a #6-32 screw through the middle hole on the corresponding Ear Bracket.
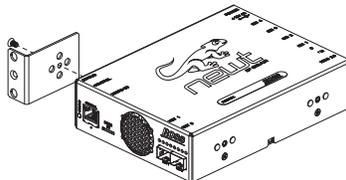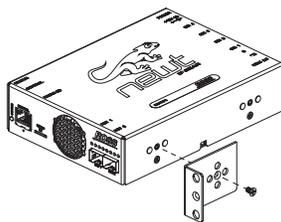
Installing the NEWT-IPX in the Left or Right Slots

Installing the NEWT-IPX in the left or right slots of the 1RU Shelf requires you to first install an Ear Bracket to the required side of the NEWT-IPX chassis. The module(s) are then secured using the rack/frame screws that affix the 1RU Shelf to the rack frame.

To install an Ear Bracket NEWT-IPX

1. If you are installing the NEWT-IPX in the left slot, affix one Ear Bracket to the left side of the NEWT-IPX.

2. If you are installing the NEWT-IPX in the right slot, affix one Ear Bracket to the right side of the NEWT-IPX.

3. Position the NEWT-IPX on the 1RU Shelf so that the Ear Bracket sits atop the Mounting Ears of the 1RU Shelf.

Installing the 1RU Shelf in a Rack Frame

The 1RU Shelf is affixed to the rack frame via the ears located on its front.
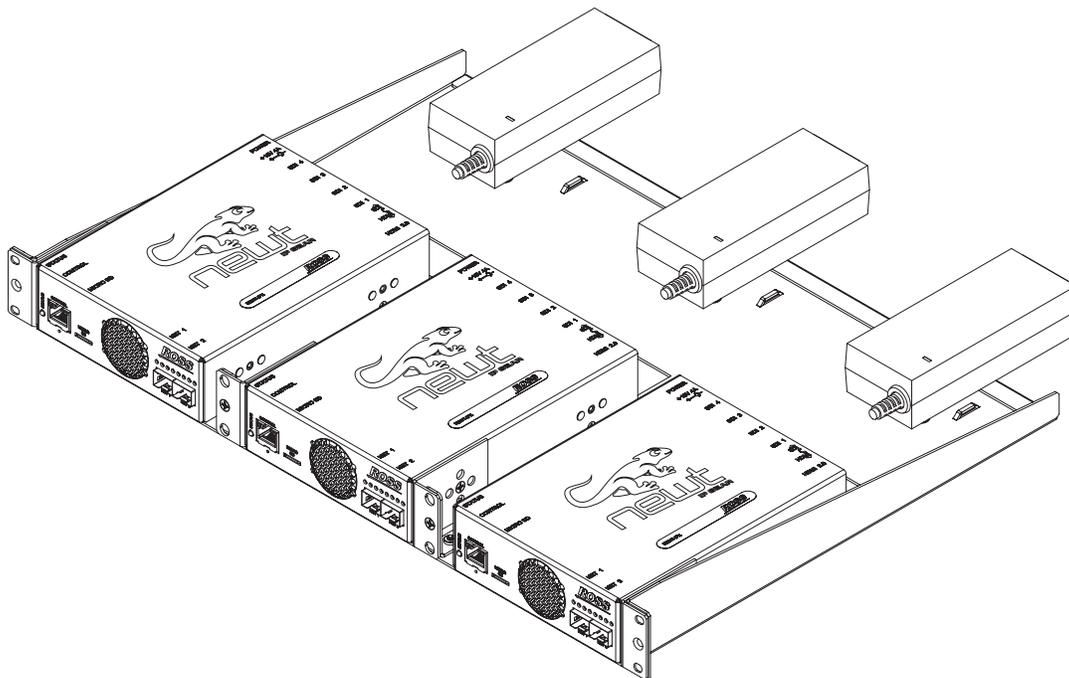
⚠️ **Caution** — *An 1RU Shelf with three NEWT-IPX modules installed is heavy. Ensure that you have a firm grip on the shelf, or that the shelf is otherwise supported, before affixing it to the rack frame.*

To install the 1RU Shelf in a rack frame

1. Secure each power supply to the 1RU Shelf using a tie wrap(s) or Velcro pad(s).

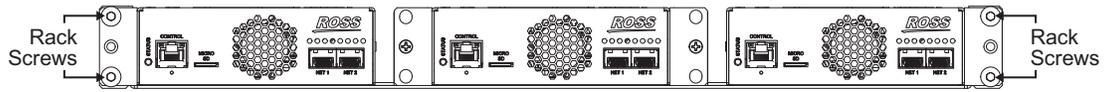   The example below shows three NEWT-IPX on the 1RU Shelf.

2. Slide the 1RU Shelf fully into the rack frame so that the ears of the 1RU Shelf are flush to the rack frame.

⚠️ **Caution** — *Adequate ventilation within a rack frame must be maintained.*

3. Use a Phillips screwdriver and the provided screws to secure the 1RU Shelf to the rack frame.

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Rack Screws

Rack Screws

Cabling the NEWT-IPX

Refer to the *NEWT-IPX Quick Start Guide* for cabling details and further installation steps.

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