

SuperLoader™ 3A Series Quick Start Guide

The Quantum® SuperLoader™ 3A Series autoloader is an automated storage and retrieval device with an integrated A-Series tape drive and up to two tape magazines holding up to eight cartridges each. It has a built-in FTP server and Web interface.

For more information, see the *SuperLoader 3A Series User's Guide* (PN 81-81643) and the *A-Series FTP File Server User's Guide* (PN 81-81800) on the documentation CD provided with your autoloader.

This quick start guide uses the following conventions:

Note: Notes emphasize important information related to the main topic.

Caution: Cautions indicate potential hazards to equipment and are included to prevent damage to equipment.

Warning: Warnings indicate potential hazards to personal safety and are included to prevent injury.

This document explains how to unpack the SuperLoader 3A Series autoloader and install it in a standard 19-inch rack.

Choosing a Location

The autoloader is designed to fit in a standard 19-inch rack using either the long or short brackets (depending on the depth of the rack). The autoloader uses standard rack mounting hardware.

Note: It is recommended that you review this entire document prior to beginning the installation.

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Choose a location that meets the following criteria:

Criteria	Description
Rack requirements	Standard 19-inch rack
Room temperature	10–35° C (50–95° F)
Power source	AC power voltage: 100–127 VAC; 200–240 VAC Line frequency: 50–60 Hz Locate the AC outlet near the autoloader. The AC power cable is the product's main disconnect device and must be easily accessible at all times.
Weight	15.5 kg (34 lb.) unloaded 18.6 kg (41 lb.) loaded with 2 magazines, 16 cartridges
Air Quality	Minimize sources of particulate contamination. Avoid areas near frequently used doors and walkways, cooling or exhaust vents, stacks of supplies that collect dust, printers, and smoke-filled rooms. Excessive dust and debris can damage tapes and tape drives.
Humidity	20–80% RH (non-condensing)
Clearance	Back: Minimum of 43.2 cm (17 in.) Front: Minimum of 68.6 cm (27 in.) Sides: Minimum of 5.08 cm (2 in.)

Preparing for the Installation

Before you begin the installation procedure in this section, make the following preparations as described in this section:

- [Providing Necessary Tools](#)
- [Taking ESD Precautions](#)
- [Preparing for Rack Mounting](#)

Providing Necessary Tools

Provide the following tools for unpacking and installing the autoloader:

- #2 Phillips screwdriver
- Level
- Antistatic wrist strap

Taking ESD Precautions

Some components within the autoloader contain static-sensitive parts. To avoid damaging these parts while performing installation procedures, always observe the following precautions:

- Ensure that the work area is free from conditions that could cause electrostatic discharge (ESD).
- Discharge static electricity from your body by touching a known grounded surface, such as your computer's metal chassis.
- Keep the autoloader turned off during all installation procedures.
- Use an antistatic wrist strap.
- Keep static-sensitive parts in their original shipping containers until ready for installation. Look for the ESD sticker to identify static sensitive parts.



- Avoid touching connectors and other components.

Note: Dry climates and cold-weather heating environments have lower relative humidity and are more likely to produce static electricity.

Preparing for Rack Mounting

The autoloader can be rack mounted by attaching it directly to stationary cabinet rails. Take the following general safety steps before beginning the rack-mount installation.

- 1 Lower the cabinet feet.
- 2 Extend the cabinet anti-tip device, if available.

Note: An anti-tip device may be extendable legs or similar equipment used to stabilize the cabinet. This anti-tip equipment is to help avoid over-balancing the cabinet when installing or removing equipment.

- 3 Ensure that the cabinet and all rack mounted equipment have a reliable ground connection.
- 4 Verify that the total current of all rack mounted components (including the autoloader) will not exceed the current rating of the power distribution unit or outlet receptacles.
- 5 Secure the help of at least one other person. At least two people are required to safely install the autoloader into a rack cabinet.

Warning: Failure to take these safety steps may result in personal injury or equipment damage.

Caution: Do not remove the top cover of the autoloader during the installation process. Removing the top cover could result in damage to the autoloader.

Unpacking the Autoloader

Before you begin, clear a desk or table so that you can unpack the autoloader.

The *SuperLoader 3A Series Quick Start Guide* has all the necessary information to unpack and inspect your autoloader correctly.

You also need to select an open 2U computer rack location near the server that will host the autoloader.

Caution: If the room in which you are working differs from the temperature in which the autoloader was shipped or stored by 15° C (30° F) or more, let the autoloader acclimate to the surrounding environment for at least 12 hours before removing it from the shipping carton.

Caution: If your unit was ordered as a one-magazine autoloader, be sure to remove the plastic shipping insert from the magazine bay before connecting or operating your autoloader. Insert either a magazine or a magazine blank into the bay. The autoloader will not function without both magazine bays equipped with either a magazine or a magazine blank.

Carefully unpack and inspect your new SuperLoader 3A Series autoloader by doing the following:

- 1 Inspect the shipping box for damage. If you notice any damage, report it to the shipping company immediately.
- 2 Open the shipping box and remove the accessories package. Set the accessories package aside for now.
- 3 Lift the autoloader and padding out of the box and place it on the work surface, top facing up. *Do not set the autoloader on either end or sides.*
- 4 Carefully remove the shipping padding from the left and right sides of the autoloader. Then remove the bag from the autoloader.
- 5 Remove the foam insert from the magazine bay of the autoloader. Save the packing materials in case you need to move or ship the autoloader in the future.

Note: If the cover must be taken off, there are 26 screws that need to be removed.

Checking Accessories

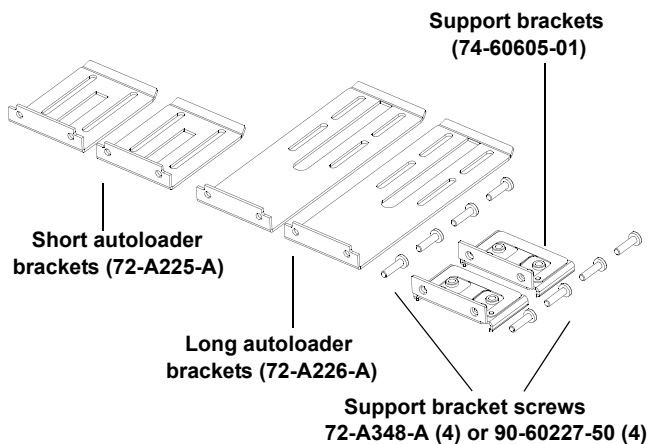
The following accessories are shipped with the SuperLoader 3A Series autoloader:

- *SuperLoader 3A Series Quick Start Guide*
- Ethernet cable
- Hardware to rack mount the autoloader (see [figure 1](#))
 - Four autoloader brackets (two long and two short to accommodate different rack depths)
 - Two support brackets
 - Two sets (decimal and metric) of four support bracket 10-32 x 1/4 inch button head screws (two per support bracket)
- TORX® L-Key drivers (T8 and T10)
- Power cable
- Documentation CD containing all of the documentation in Adobe® Portable Document Format (PDF)
- Bar code labels

You will also need the following parts that were shipped with your rack:

- Eight clip nuts
- Eight rack screws

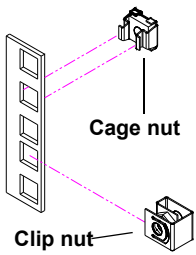
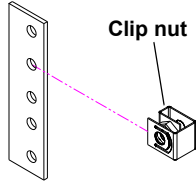
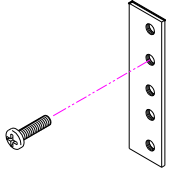
Figure 1 Rack Mount Hardware



Rack Mounting the Autoloader

This section provides the steps for attaching the autoloader directly to the stationary rails of a rack. Refer to [table 1](#) for information on common rack hole types.

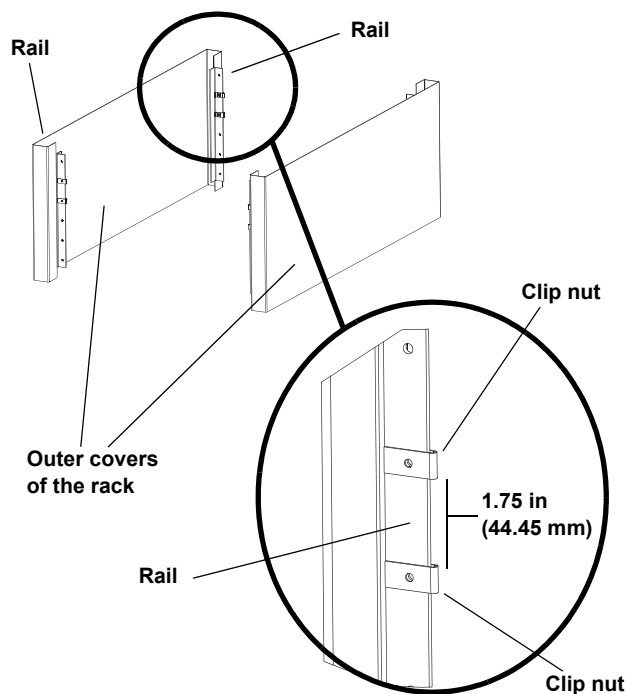
Table 1 Rack Hole Types

Figure	Description
 <p>The diagram shows a vertical rail with four square holes. A cage nut is shown being inserted into the back of a hole, and a clip nut is shown being attached to the side of a hole. Labels 'Cage nut' and 'Clip nut' point to their respective components.</p>	<p>Square rack holes are the most common type of rack holes. They can accept either cage nuts which mount from the back of the rail or clip nuts which clip on from the side of the rack rail.</p>
 <p>The diagram shows a vertical rail with four circular through holes. A clip nut is shown being attached to the side of one of the holes. A label 'Clip nut' points to the component.</p>	<p>Through holes require clip nuts to accept mounting hardware.</p>
 <p>The diagram shows a vertical rail with four circular threaded holes. A screw is shown being inserted into one of the holes.</p>	<p>Threaded holes require neither cage or clip nuts to accept mounting hardware.</p>

Note: The rails within the rack have a hole pattern that repeats throughout the rail.

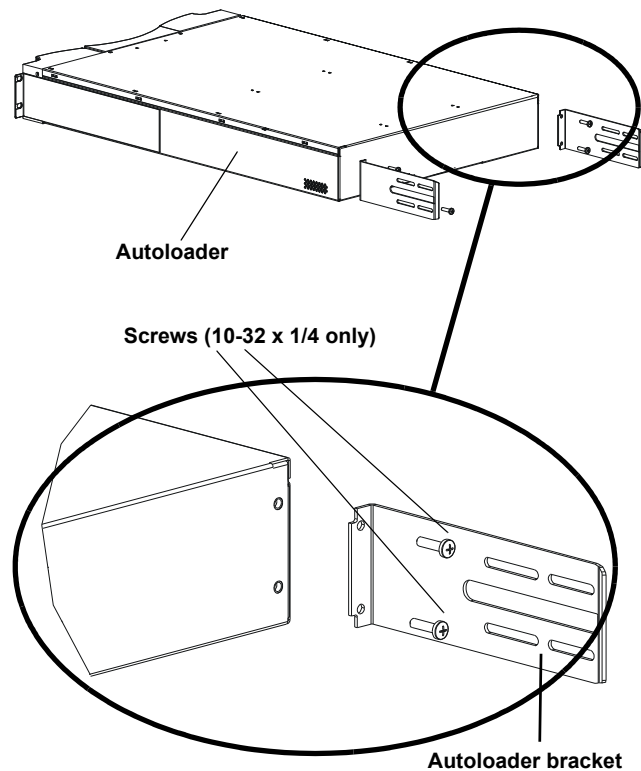
- 1 Install two clip nuts, 1.75 in. (44.45 mm) apart, onto each of the four rails of the rack, making sure that you install each pair of clip nuts at exactly the same level (see [figure 2](#)).

Figure 2 Installing Two Clip Nuts



- 2 Select the long or short autoloader brackets (depending on the depth of the rack), and then attach them to the rear of the autoloader (see [figure 3](#)). Use the long autoloader brackets (72-A226-A) when the distance from the front mounting rail to the rear mounting rail is less than 30.25 in. (76.84 cm). Otherwise, use the short autoloader brackets (72-A225-A).

Figure 3 Attaching Autoloader Brackets

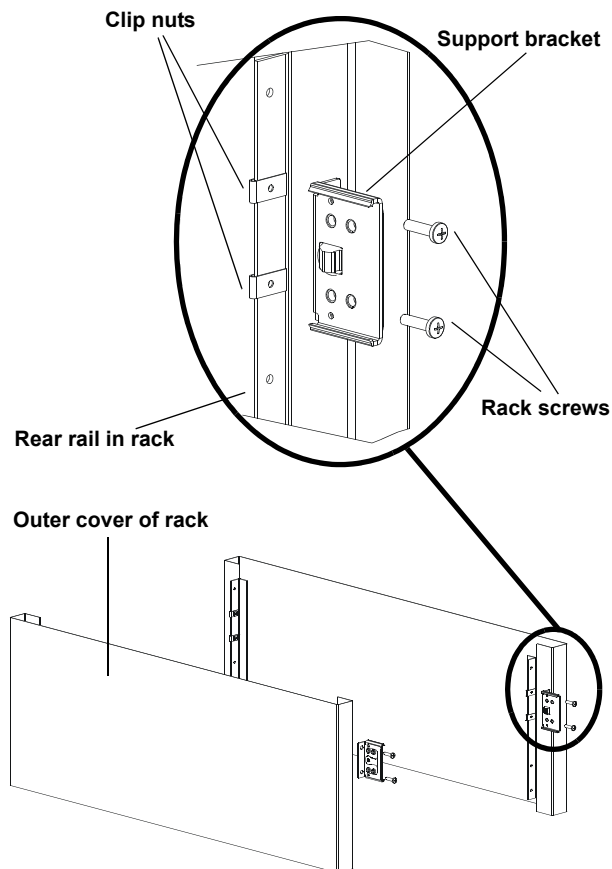


- 3 Using rack screws, attach a support bracket to the clip nuts on each rear rail (see [figure 4](#).)

Note: Be sure to attach the support brackets correctly; the side of the bracket with only two holes should be secured to the rail.

Tighten the screws just enough to hold the support brackets firmly against the rail while still allowing the support bracket to be slightly shifted by hand. This shifting will help facilitate the engagement of autoloader brackets as the autoloader is installed in the rack. You will fully tighten the screws in [step 8](#).

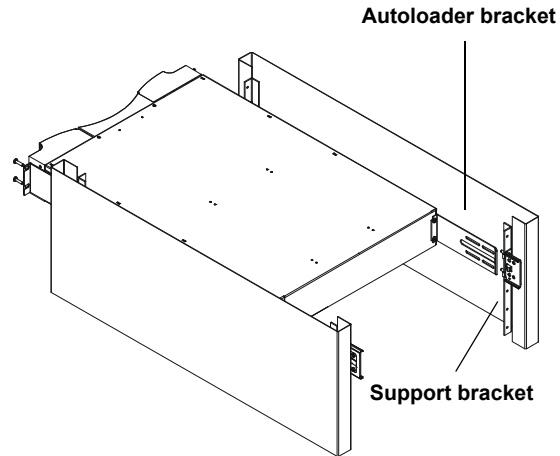
Figure 4 Attaching Support Brackets



- 4 With the help of a second installer, insert the autoloader into the rack so that the autoloader brackets slide into corresponding support brackets on the rear rails and the tabs at the front of the autoloader align flush with the clip nuts on the front rails (see [figure 5](#)).

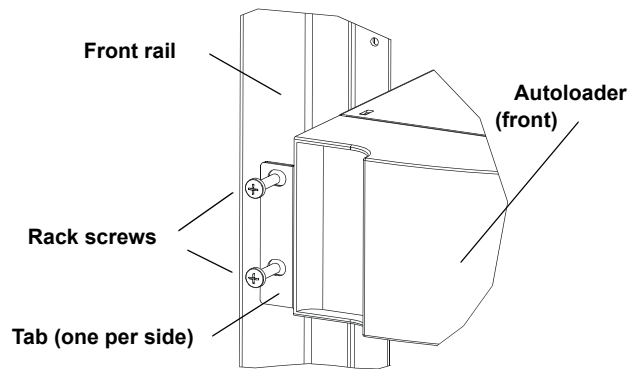
Caution: Do not release the front end of the autoloader until it can be secured to the rack.

Figure 5 Sliding Autoloader into Rack



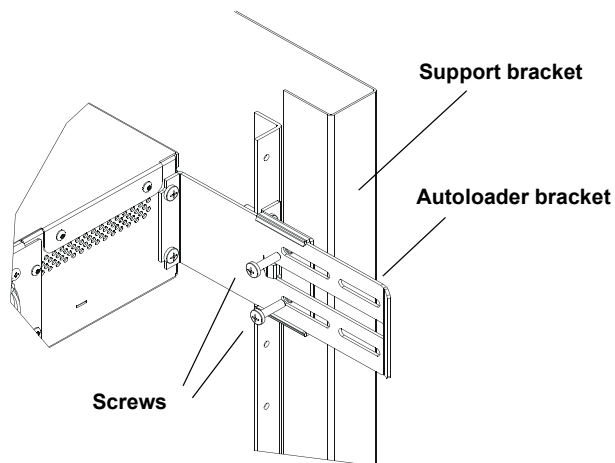
- 5 While the other installer holds the front end of the autoloader, secure the front end of the autoloader to the rack using four rack screws (two per tab) as shown in [figure 6](#). Tighten the screws just enough to secure the autoloader to the front rails.

Figure 6 Front Alignment



- 6 Install four screws (two per side) to secure the support brackets to the autoloader brackets (see [figure 7](#)).

Figure 7 Connecting Support Brackets

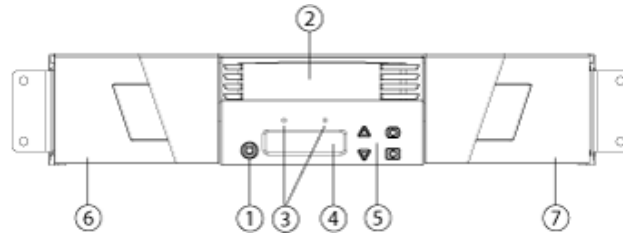


- 7 Verify that the autoloader is level. Adjust as needed.
- 8 When the autoloader is level, tighten all screws securing the autoloader to the rack. This includes the following:
 - Four screws securing the autoloader tabs to the front rails.
 - Four screws securing the support brackets to the rear rails.
 - Four screws securing the autoloader brackets to the support brackets.

Autoloader Panel Overviews

The front panel allows you to configure the autoloader, enter commands, and obtain status information.

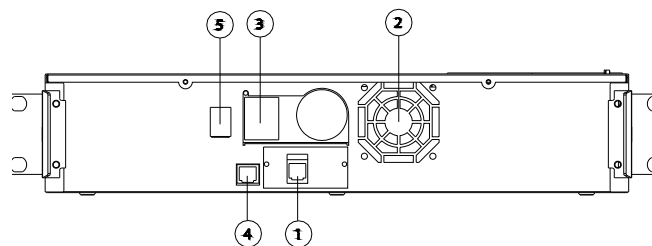
Figure 8 Front Panel Overview



1	Power switch
2	Mailslot
3	Front panel LEDs
4	Front panel LCD screen
5	Function keys
6	Left magazine (or blank)
7	Right magazine (or blank)

The Ethernet ports on the back panel allow you to connect to the A-Series tape drive FTP file server and to the autoloader remote management interface.

Figure 9 Back Panel Overview



1	A-Series tape drive FTP file server Ethernet port
2	Fan vent
3	Power connector
4	Autoloader remote management Ethernet port
5	Power switch

Connecting Ethernet and Power Cables

To connect the Ethernet and power cables to the autoloader, follow these steps:

- 1 Attach one end of the Ethernet cable (included in the accessory kit) to the tape drive Ethernet port on the back panel of the autoloader.
- 2 Attach the other end of the Ethernet cable to your host network port or router.
- 3 Attach the female connector of the power cable to the power connector on the back panel of the autoloader.
- 4 Plug in the power cable to the nearest properly grounded power outlet, then turn on the power switch on the back panel of the autoloader.

Caution: Whenever you power cycle the autoloader, allow 10 seconds before turning the power back on. The power supply requires at least two to three seconds for the capacitors to discharge. This ensures a complete system reset on power down and may avoid system errors.

- 5 Turn on the autoloader by setting the power switch on the back panel to the **ON** position and pressing the power switch on the front panel. Check the LCD screen to make sure the autoloader is receiving power. If it is not, check the power connections and your power source.

During the Power-on Self Test (POST), both LEDs are illuminated briefly, followed by only the **Ready/Activity** LED flashing. When the initialization sequence is complete, the LCD screen displays the **Home** screen.

Note: The autoloader will not complete the initialization sequence unless both tape magazine openings are properly closed. You can use two magazines or one magazine and one magazine blank.

Note: When the SuperLoader 3A Series is powered up, it undergoes a media inventory. Each tape cartridge in the autoloader is inserted into the A-Series tape drive and inventoried. Depending upon the number of cartridges in each magazine and the amount of content or data on each cartridge, the media cartridge inventory may take up to forty minutes.

After the Installation

From the front panel of the autoloader, use the menus to set the IP address (DHCP or Static), Subnet Mask (if required), Gateway (if required), SNMP Server (optional), and Time Server (optional).

The default IP address is **192.168.20.128**.

The default login and password for the On-board Remote Manager is **guest** and **guest**.

For detailed information on the setup, operation, and administration of your system (including accessing and using the FTP file server), see the *SuperLoader 3A Series User's Guide* (PN 81-81643) and the *A-Series FTP File Server User's Guide* (PN 81-81800) on the documentation CD provided with your autoloader.



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For assistance contact Quantum Technical Assistance center:
North America **+1-800-284-5101**
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