Servicing The Front Mezzanine Module

This chapter contains the following topics:

- Servicing the Front Mezzanine Module, on page 1

Servicing the Front Mezzanine Module

The front mezzanine contains E3.S PCIe drives and field-replacable components.

To service these components, see the following topics:

- Replacing a Drive, on page 1
- Installing a Drive, on page 2

Replacing a Drive

The front mezzanine E3.S module supports up to nine E3.S drives. Each drive is front-loading into the front of the module.

Use the following tasks to replace a E3.S drive.

- Removing a Drive, on page 2
- Installing a Drive, on page 2

E3.S PCIe Requirements and Restrictions

For 7.5mm E3.S PCIe SSD drives, be aware of the following:

- UEFI boot mode can be configured through the Boot Order Policy setting in the Server Policy supported by Cisco Intersight Managed Mode (IMM). For instructions about setting up UEFI boot mode through Cisco IMM, go to:

  Cisco Intersight Managed Mode Configuration Guide

- PCIe SSDs cannot be controlled with a SAS RAID controller because PCIe SSDs interface with the compute node via the PCIe bus.
- UEFI boot is supported in all supported operating systems.

Hot Plug Considerations

Enabling Hot Plug Support

Surprise and OS-informed hot plug is supported with the following conditions:

- VMD must be enabled to support hot plug. VMD must be enabled before installing an OS on the drive.
- If VMD is not enabled, surprise hot plug is not supported, and you must do OS-informed hot plug instead.
- VMD is required for both surprise hot plug and drive LED support.

Removing a Drive

Use this task to remove a E3.S PCIe drive from the front mezzanine drive module.

Caution Do not operate the system with an empty drive bay. If you remove a drive, you must reinsert a drive or cover the empty drive bay with a drive blank.

Procedure

Step 1 Push the ejector button to open the ejector arm, swing the ejector arm open and then pull the drive from its slot.

Caution
To prevent data loss, make sure that you know the state of the system before removing a drive.

Step 2 Place the drive on an antistatic mat or antistatic foam if you are not immediately reinstalling it in another compute node.

Step 3 Install a drive blanking panel to maintain proper airflow and keep dust out of the drive bay if it will remain empty.

What to do next

Cover the empty drive bay. Choose the appropriate option:

- Installing a Drive, on page 2
- Installing a Drive Blank Filler, on page 4

Installing a Drive

Caution For hot installation of drives, after the original drive is removed, you must wait for 20 seconds before installing a drive. Failure to allow this 20-second wait period causes the management software to display incorrect drive inventory information. If incorrect drive information is displayed, remove the affected drive(s), wait for 20 seconds, then reinstall them.

To install a E3.S PCIe drive, follow this procedure:

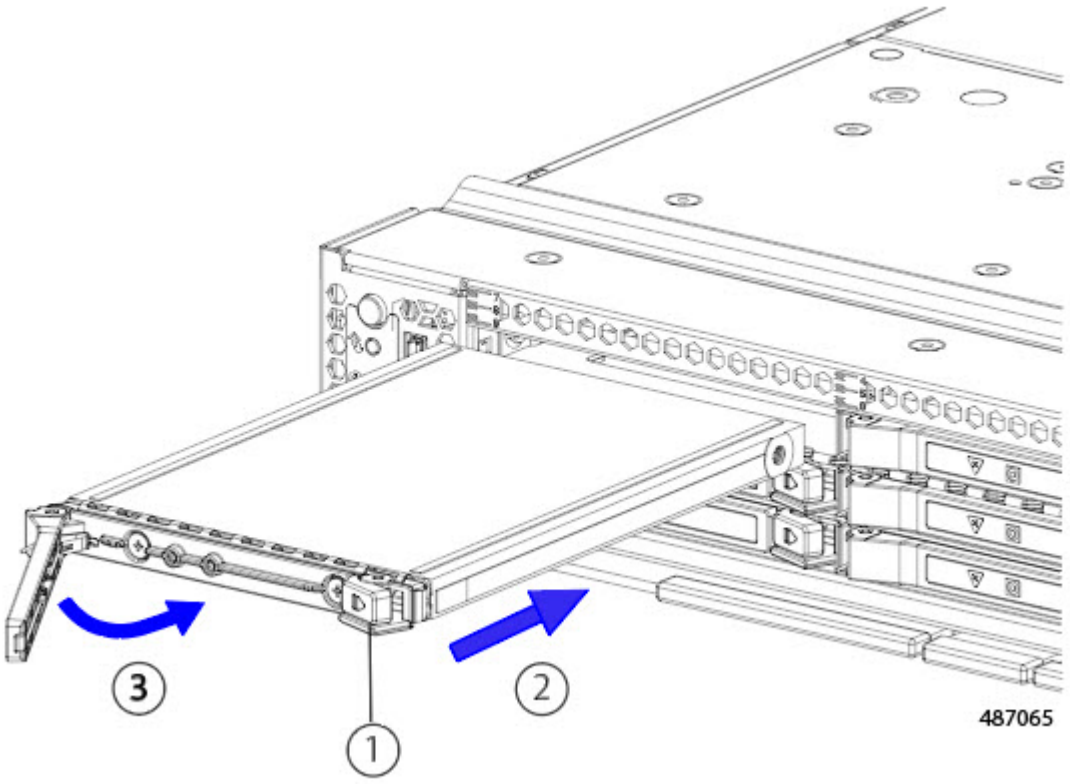
Procedure

Step 1 Place the drive ejector arm into the open position by pushing the ejector button.

Step 2 Placing your fingers in the center of the drive, gently slide the drive into the empty drive bay until it seats into place.

Step 3 Push the drive ejector arm into the closed position.

You should feel the ejector arm click into place when it is in the closed position.



Removing a Drive Blank Filler

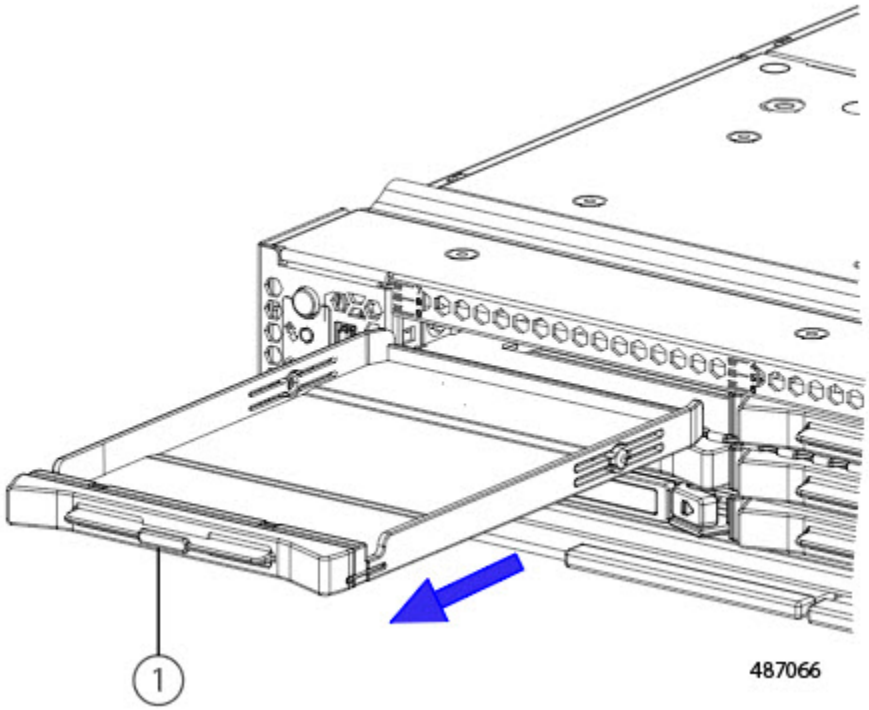
A maximum of nine E3.S drives is contained in the front mezzanine storage module. If your front mezzanine module has fewer than nine E3.S drives, you must install drive blank filler in the empty drive bays. All drive slots must contain a drive or drive blank filler.

Note Do not operate a front mezzanine E3.S module that has empty drive bays without a drive blank filler.

Use this procedure to remove a drive blank filler.

Procedure

Grasp the front lip of the drive blank filler and pull the drive blank filler out of the slot.



What to do next

Cover the empty drive bay. Choose the appropriate option:

- Installing a Drive, on page 2
- Installing a Drive Blank Filler, on page 4

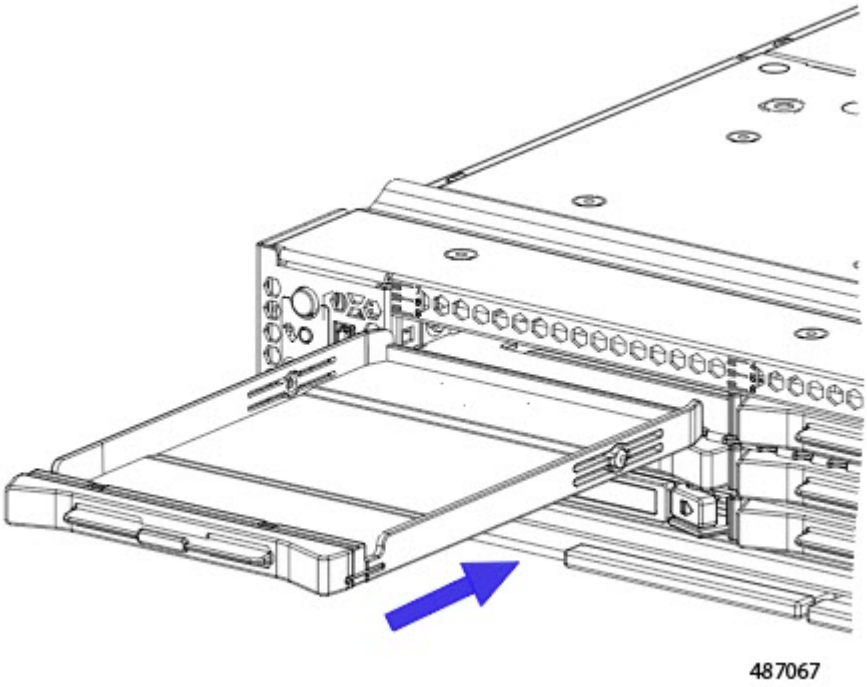
Installing a Drive Blank Filler

Use this task to install a drive blank.

Procedure

Step 1 Align the drive blank filler so that the plastic bottom surface is facing down.

Step 2 Holding the drive blank filler level, slide it into the empty slot.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