

Storage Configurator

Lenovo ThinkStation PX



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Overview

The ThinkStation PX workstation offers a vast majority of storage options. The PX workstation provides three standard M.2 slots directly on the motherboard as well as the ability to utilize up to three front accessible drive bays. Additionally, the PX workstation has the ability to convert the second PSU bay to a fourth SATA drive bay enclosure. The following document provides detailed guidance for users to optimally configure their system storage options in the ThinkStation PX platform.

Here is a high-level overview of the types of storage devices supported on the ThinkStation PX platform:

Table 1 - General overview of support storage devices in the ThinkStation PX

| Drive Type and Speed | ThinkStation PX |
|--|-------------------|
| 3.5" SATA Gen 3 Hard Disk Drive (HDD) | Up to 2TB each |
| 3.5" SATA Gen 3 Enterprise HDD | Up to 12TB each |
| M.2 PCIe SSD Gen 4 x4 | Up to 4TB each |
| M.2 PCIe SSD Gen 5 x4 | Up to 4TB each |
| U.3 PCIe SSD Gen 4 x4 | Up to 15.3TB each |

Table 2 - Quantity and capacity by drive type

| Drive Type and Speed | Number of Drives Supported | Total Storage | Additional Hardware |
|------------------------------|----------------------------|---------------|---|
| 3.5" SATA Drives | 4 ¹ | Up to 48TB | PSU Bay Enclosure (4 th Bay) ² |
| M.2 Gen 4 PCIe Drives | 11 ¹ | Up to 36TB | Front access bay M.2 enclosure ³ PCIe Gen 4 Quad M.2 SSD Adapter ³ |
| M.2 Gen 5 PCIe Drives | 7 ¹ | Up to 28TB | PCIe Gen 5 Quad M.2 SSD Adapter ³ |
| U.3 PCIe Drives | 4 ¹ | Up to 60TB | Front access bay U.2/U.3 enclosure ³ PCIe Single U.2/U.3 SSD Adapter ³ |

¹ Extra hardware may be required to get to the maximum number of drives supported.

² Only supported with single power supply configurations.

³ Depends on the system hardware configuration.

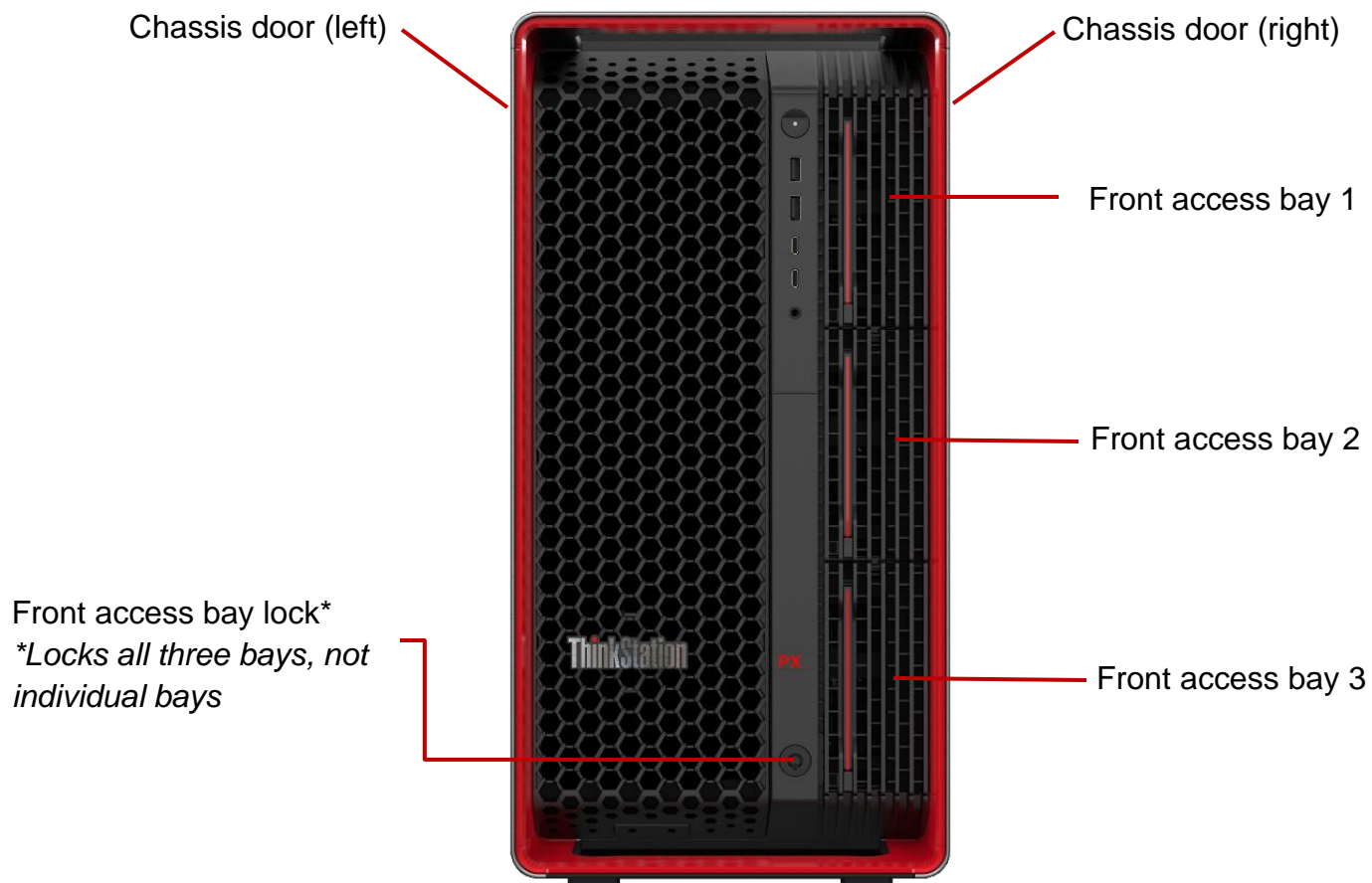
Section 1 – PX Storage Summary

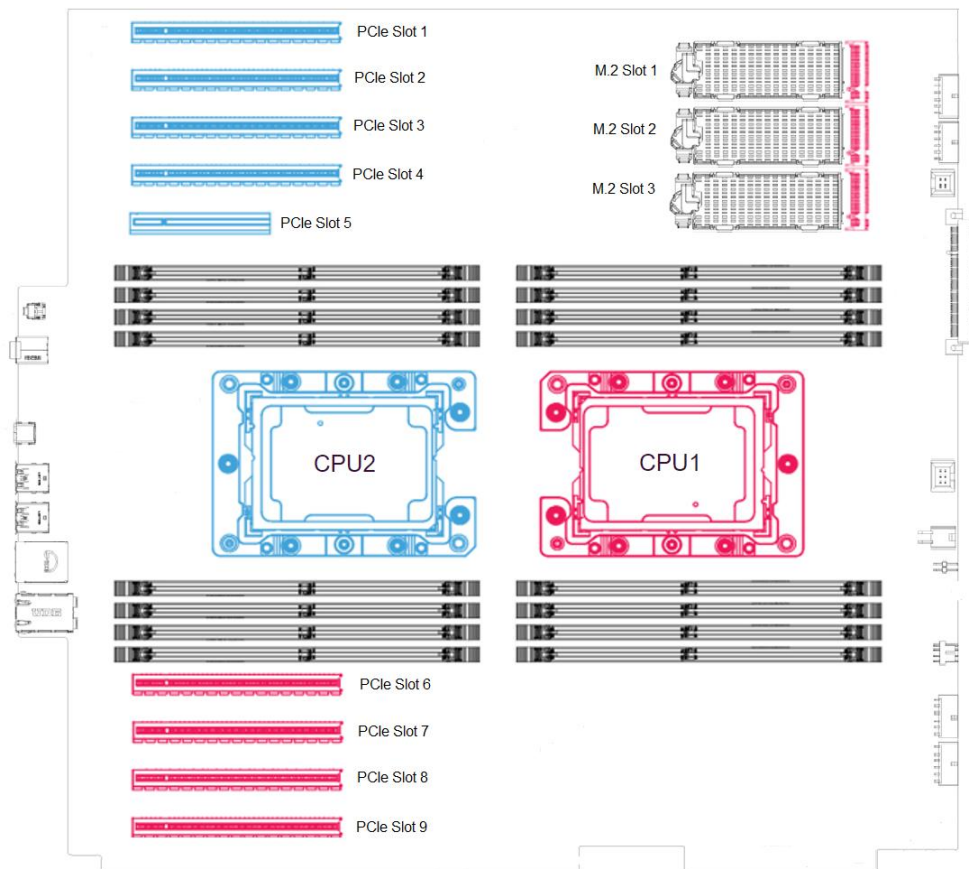
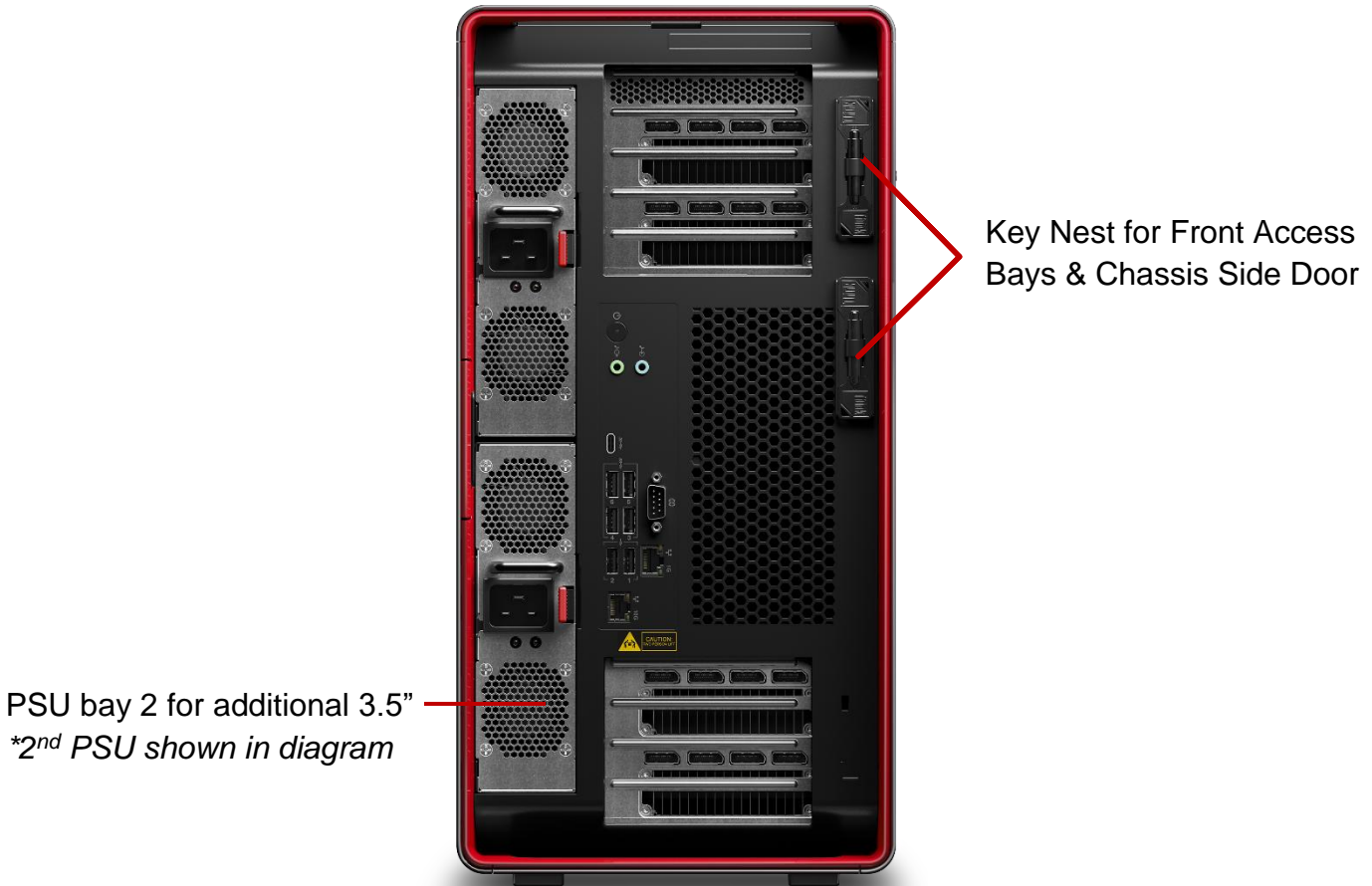
The below Table 2 shows a high-level summary of what storage options are available in the ThinkStation PX platform.

Table 3 - Storage Summary

| Storage Location | Drive Type Support |
|---|--|
| Internal onboard M.2 slots | 3 x M.2 SSD Gen 5 (CPU1) |
| ThinkStation PCIe Single U.2 / U.3 SSD Adapter | 1 x U.2 / U.3 SSD Gen 4 per adapter |
| ThinkStation PCIe Gen 4 Quad M.2 SSD Adapter | 4 x M.2 SSD Gen 4 per adapter |
| ThinkStation PCIe Gen 5 Quad M.2 SSD Adapter | 4 x M.2 SSD Gen 5 per adapter |
| Front access bay 1 | 1 x 3.5" SATA Gen 3 (Chipset) |
| Front access bay 2 | One of: <ul style="list-style-type: none"> • 1 x 3.5" SATA Gen 3 (Chipset) • 2 x M.2 SSD Gen 4 (requires CPU2) • 1 x U.3 SSD Gen 4 (requires CPU2) + 1 x 3.5" SATA Gen 3 (Chipset) |
| Front access bay 3 | One of: <ul style="list-style-type: none"> • 1 x 3.5" SATA Gen 3 (Chipset) • 2 x M.2 SSD Gen 4 (requires CPU2) • 1 x U.3 SSD Gen 4 (requires CPU2) + 1 x 3.5" SATA Gen 3 (Chipset) |
| PSU bay 2 | 1 x 3.5" SATA Gen 3 (Chipset) ¹ |

¹ Only supported with single power supply configurations.





Section 2 – PX M.2 SSD Drives on CPU-based Controller

The Lenovo ThinkStation PX platform supports a variety of different storage devices. Table 3 shows the available features for M.2 SSD drives utilizing the CPU-based controller. Table 4 highlights the compatibility and requirements for M.2 SSD drives utilizing the CPU-based controller.

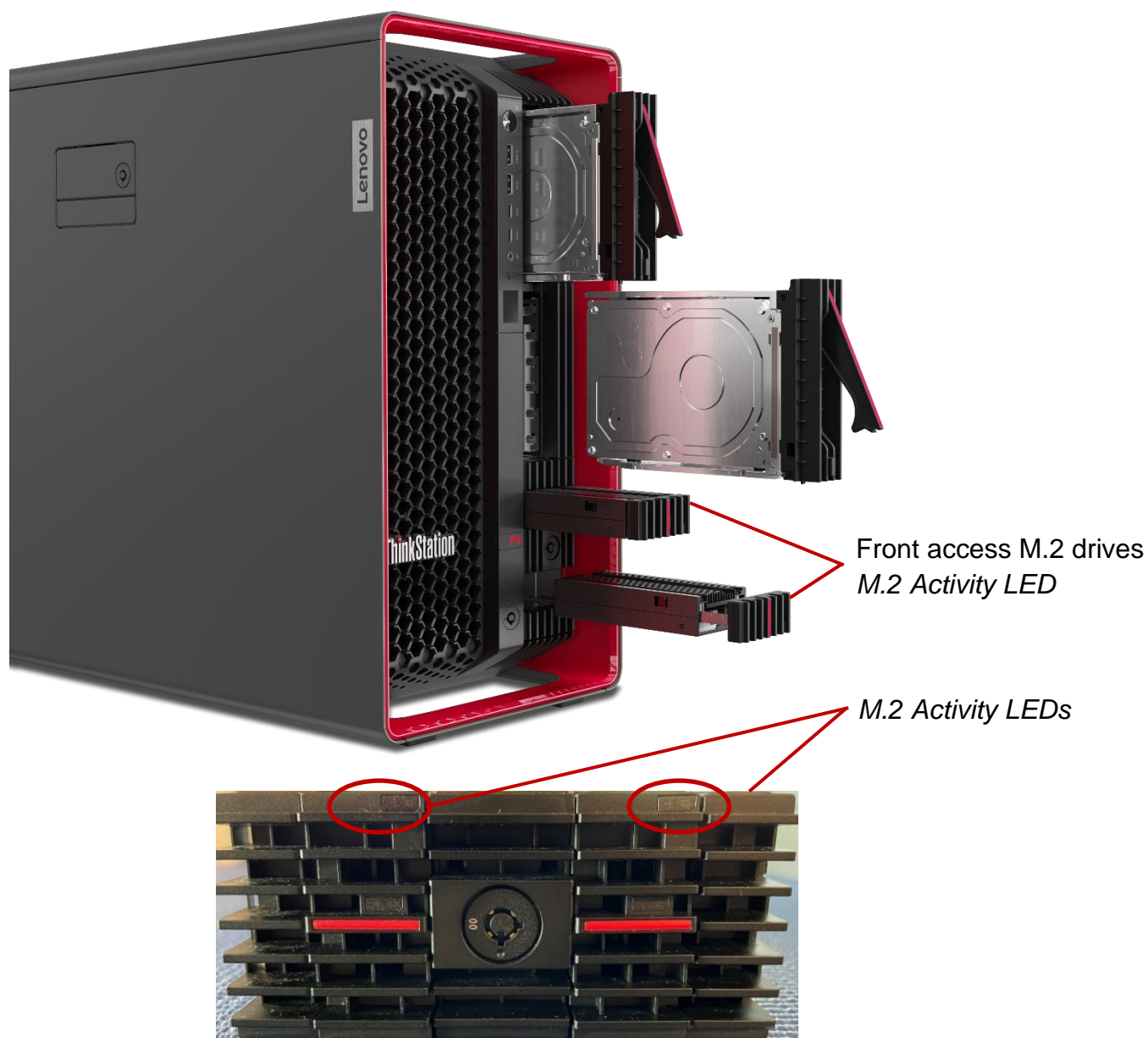


Table 4 - Features for M.2 SSD drives on CPU-based controllers

| Feature | Onboard M.2 Slots | Front Access Bay Dual M.2 SSD enclosure (#1) | Front Access Bay Dual M.2 SSD enclosure (#2) |
|---------------------------------|---|--|--|
| Drive Count (System max = 7) | 3 | 2 | 2 |
| Maximum PCIe speed | Gen 5 ¹ | Gen 4 | Gen 4 |
| Availability | Standard | Optional | Optional |
| Location | Motherboard | Front access bay 2 | Front access bay 3 |
| Controller | CPU1 | CPU2 | CPU2 |
| Supported M.2 dimensions (mm) | (2) 2280 or 22110 + (1) 2280 | 2280 | 2280 |
| Double side support | Yes | Yes | Yes |
| Maximum power per Gen 4 drive | 8W | 8W | 8W |
| Maximum power per Gen 5 drive | See Table 5 below! | Not Supported | Not Supported |
| RAID support ² | RAID 0, 1, 5, 10 (data array only) ³ | | |
| | RAID 0, 1, 5 | RAID 0, 1, 5, 10 | |
| Front accessible | No | Yes | Yes |
| Toolless | Yes | Partial ⁴ | Partial ³ |
| Hot swappable | No | Yes | Yes |
| Individual activity/status LEDs | No | Yes | Yes |
| Combined in system activity LED | Yes | Yes | Yes |

¹ See Table 5 below showing the power delivery for each slot.

² See the “Intel VROC Storage Configurator” whitepaper for additional details.

³ Each PCIe x16 port off the Intel CPU forms a logical Volume Management Device (VMD). Intel VROC only supports booting to RAID volumes within a single VMD.

⁴ A screwdriver is required to install the drive into the sub enclosure, but then the sub enclosure can be removed from the main enclosure without tools.

Table 5 - PX Onboard M.2 Slot Power Delivery for M.2 Gen 5 NVMe Drives

| # of M.2 Gen 5 Drives Onboard | Onboard M.2 Slot 1 | Onboard M.2 Slot 2 | Onboard M.2 Slot 3 |
|---|--------------------|--------------------|--------------------|
| 1 | 10W | 10W | 8W |
| 2 | 10W | 10W | 8W |
| 3 | 8W | 8W | 8W |
| *For full optimal bandwidth, Gen 5 drives require 10W of power. | | | |

Figure 1 - 8W versus 10W M.2 Heatsink Size Differences

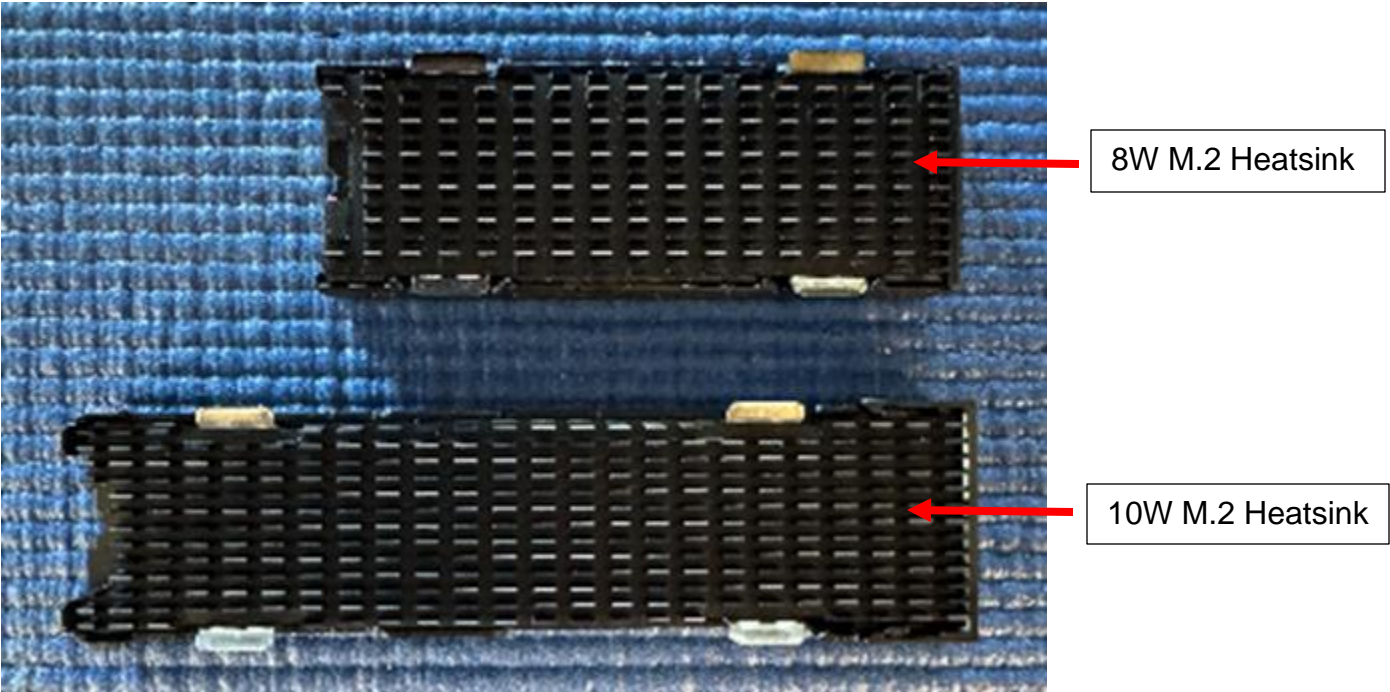
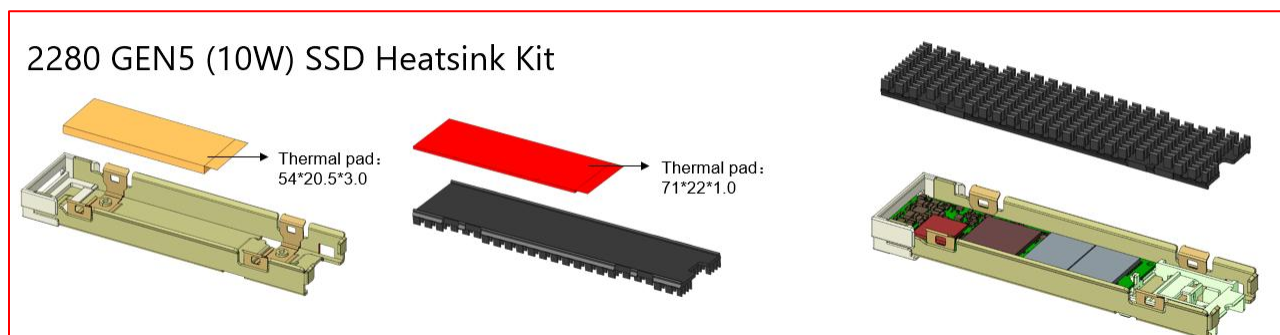


Figure 2 - 10W M.2 (2280) Heatsink Kit



Note, there is an alternate heatsink solution for 22110 M.2 Gen 5 drives.

Figure 3 - 8W M.2 Heatsink Kits showing the latch mechanism that needs to be moved

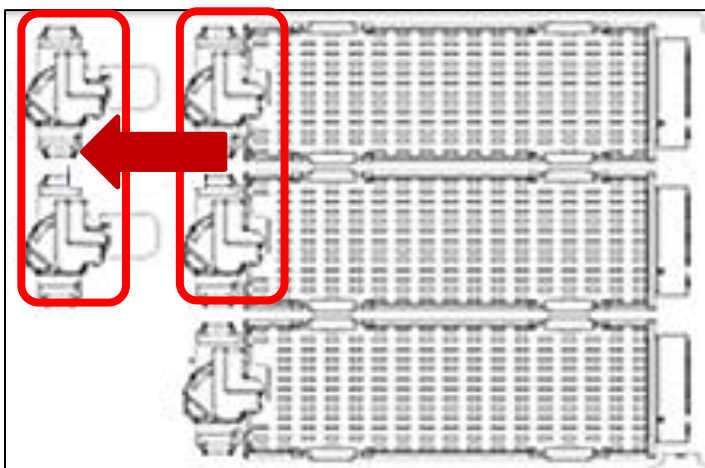
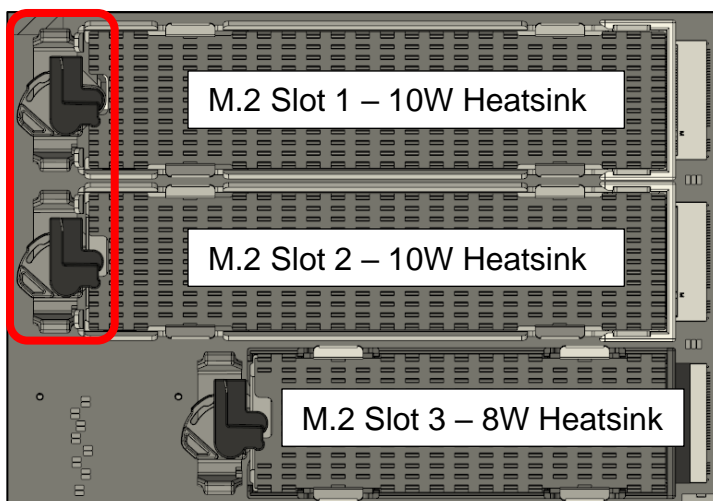
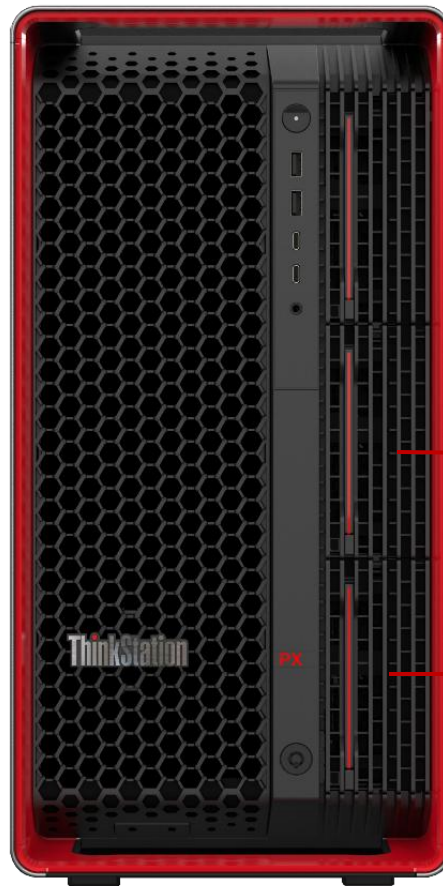


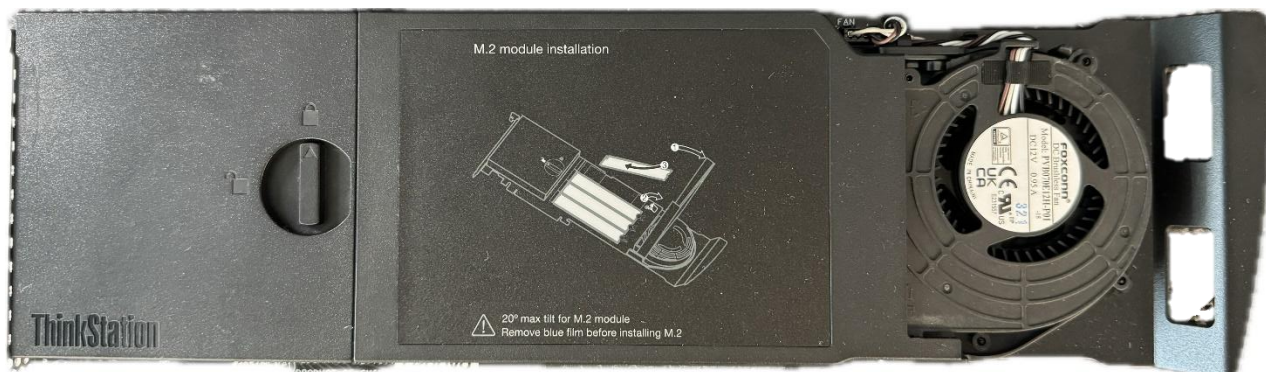
Figure 4 - 10W M.2 Heatsinks installed on the motherboard





Front Access Bay Dual
M.2 SSD Enclosure (#1)

Front Access Bay Dual
M.2 SSD Enclosure (#2)



ThinkStation PCIe Quad M.2 SSD Adapter

Table 6 - Compatibility and parts requirements for M.2 SSD drives on CPU-based controller

| Location | Compatibility | Requirements and Parts |
|--|---|--|
| Onboard M.2 | | <ul style="list-style-type: none"> M.2 Carrier and Heatsink kit standard on motherboard RAID requires Intel VROC key¹ |
| Front Access Bay Dual M.2 SSD Enclosure x 1 | Compatible with the following front access combinations: <ul style="list-style-type: none"> 0-2 x SATA | <ul style="list-style-type: none"> System must have two CPUs Front access bay Dual M.2 SSD enclosure Motherboard NVMe bay2 Gen5 cable Storage bay 5038 fan RAID requires Intel VROC key¹ |
| Front Access Bay Dual M.2 SSD Enclosure x 2 | Compatible with the following front access combinations: <ul style="list-style-type: none"> 0-1 x SATA | <ul style="list-style-type: none"> System must have two CPUs Front access bay Dual M.2 SSD enclosure Motherboard NVMe bay2 Gen5 cable Motherboard NVMe bay3 Gen5 cable Storage bay 5038 fan RAID requires Intel VROC key¹ |
| PCIe Quad M.2 SSD Adapter | Requires available PCIe x16 slot. | <ul style="list-style-type: none"> RAID requires Intel VROC key¹ |

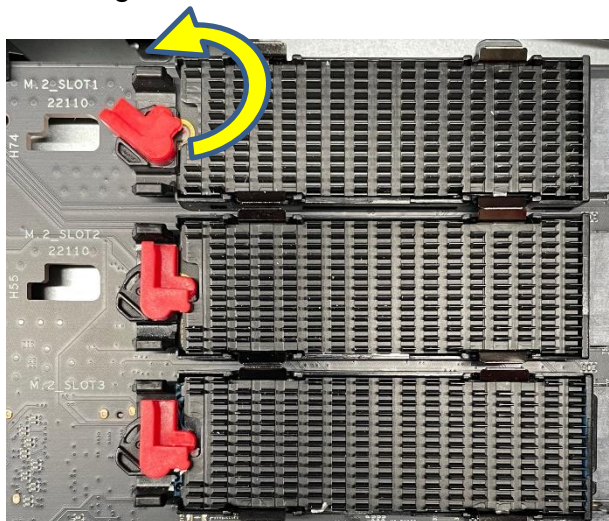
¹ Intel Virtual RAID On CPU (VROC). Basic Intel VROC key supports RAID 0, 1, and 10. Premium Intel VROC key supports RAID 0, 1, 5, and 10. One Intel VROC key supports all NVMe drive locations.

Onboard M.2 SSD drive installation

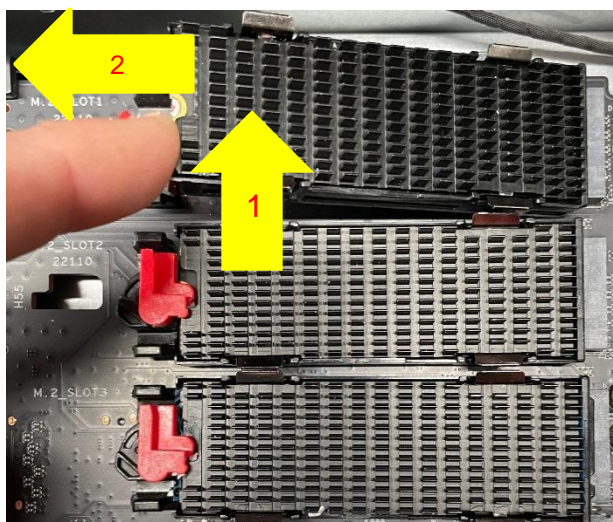
1. Open the side cover on the PX and remove any PCIe adapters that may interfere with accessing the onboard M.2 slots.



2. Rotate the red locking mechanism counterclockwise.



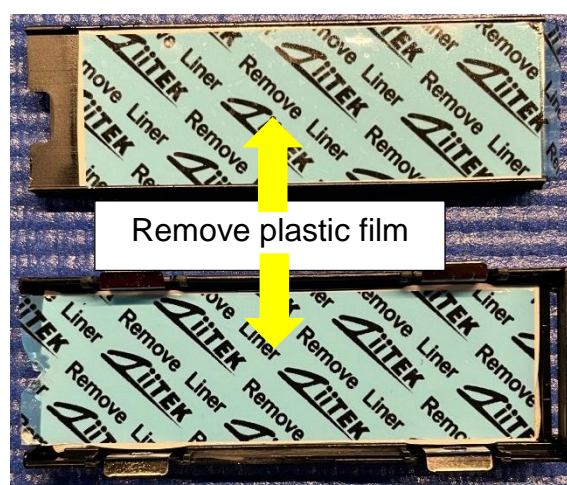
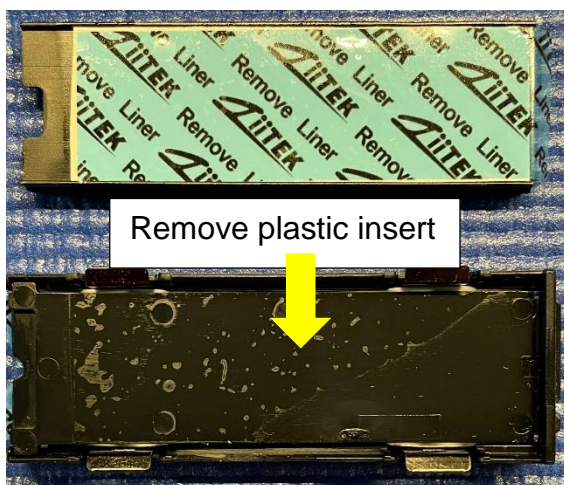
3. Slightly lift straight up to about a 15-degree angle and pull out.
Caution: Be careful not to lift too much to risk breaking the M.2 slot.



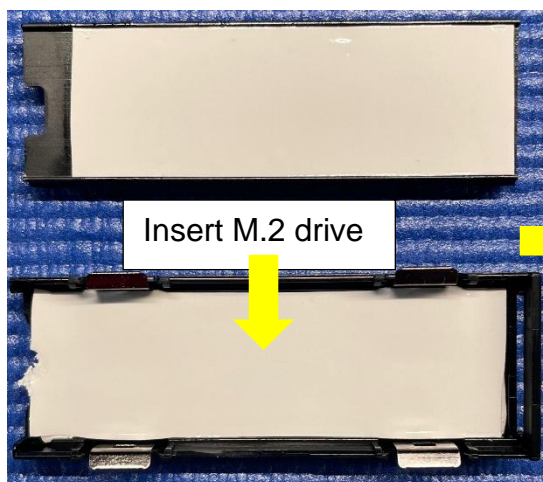
4. Lay the M.2 carrier flat on a desk and carefully separate the heatsink from the carrier by releasing the four tabs away from the heatsink.



5. Remove the plastic insert as well as the thermal pad plastic film piece.



6. Insert the M.2 drive carefully in the M.2 bracket as shown below.

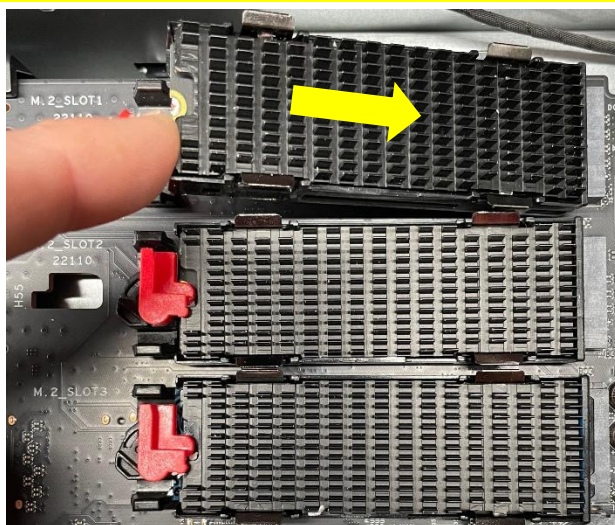


7. Reinstall the heatsink on top of the M.2 drive within the carrier and press to engage tabs on the heatsink to the metal brackets on the carrier.

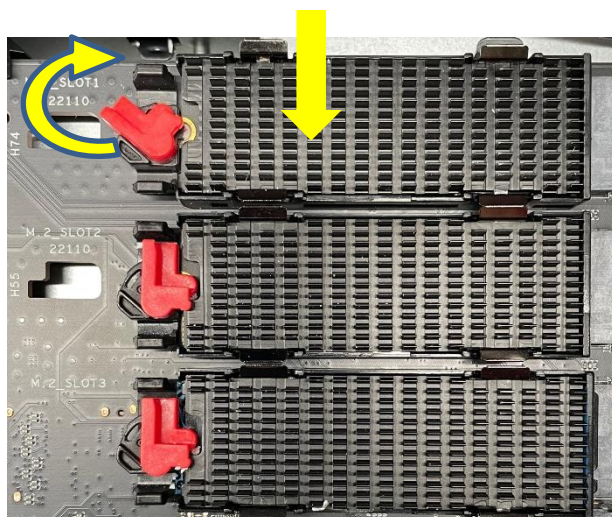


8. Install the M.2 bracket back into the onboard M.2 slot at a slight 15-degree angle.

Caution: Be careful not to use excessive force to risk breaking the M.2 slot.



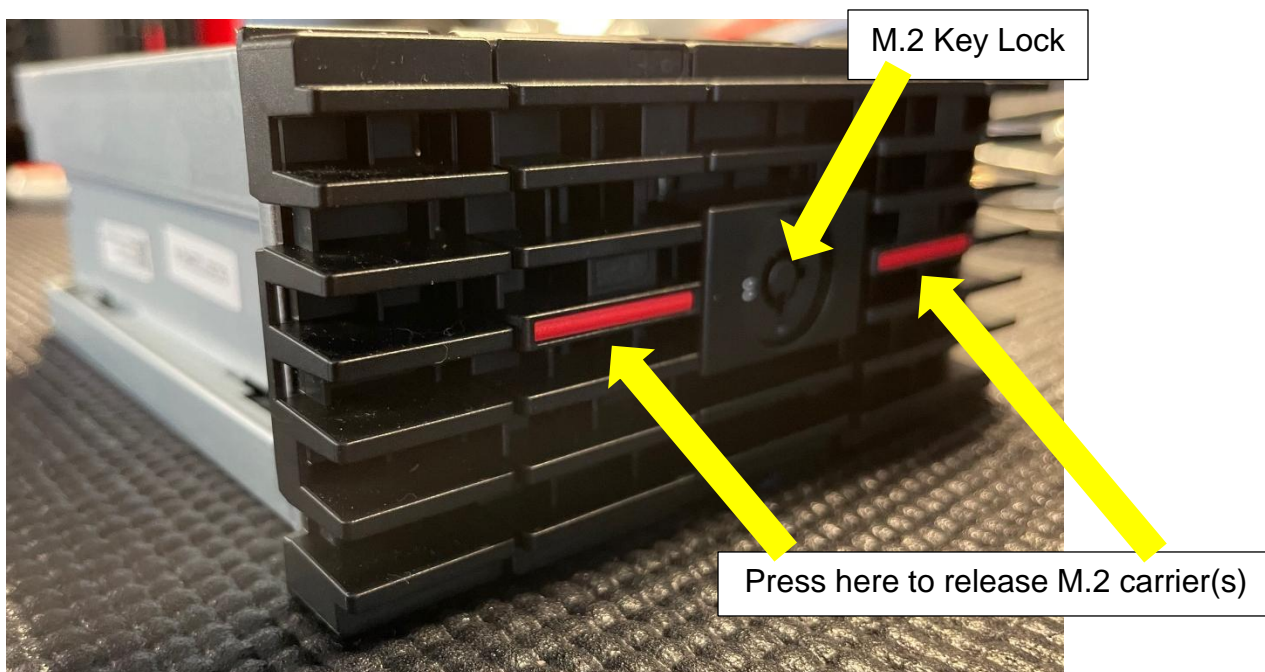
9. Push down and rotate the red latch clockwise to secure the M.2 carrier in the system.



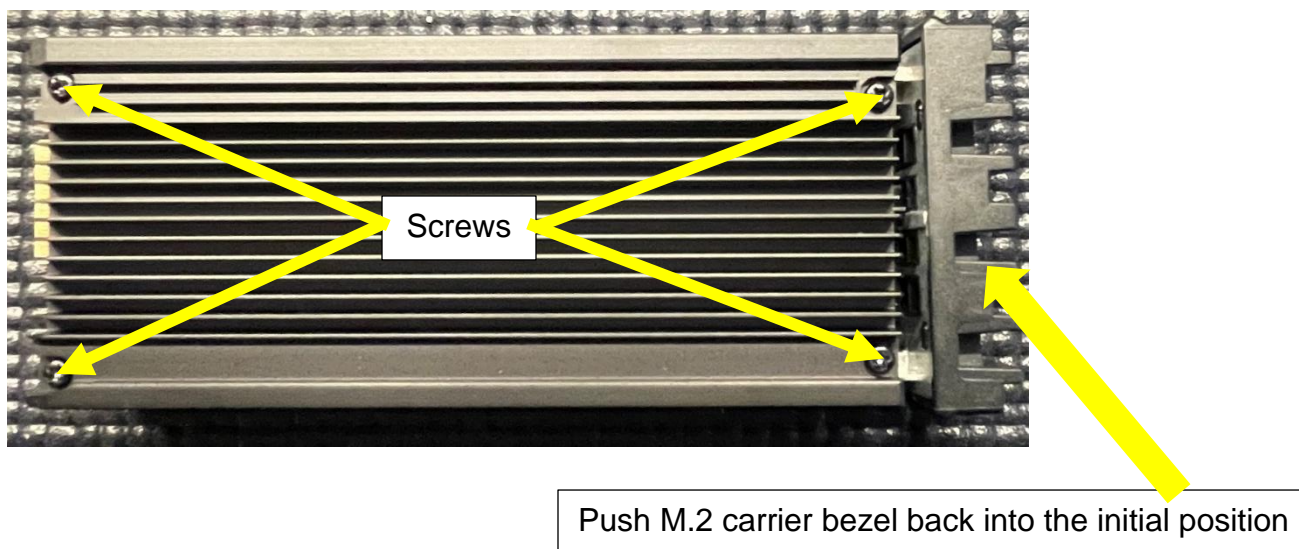
Front M.2 drive installation

1. Remove the M.2 carrier(s) from the Front Bay assembly by pressing on the red touchpoint to release the spring-loaded M.2 carrier from the Front Bay assembly.

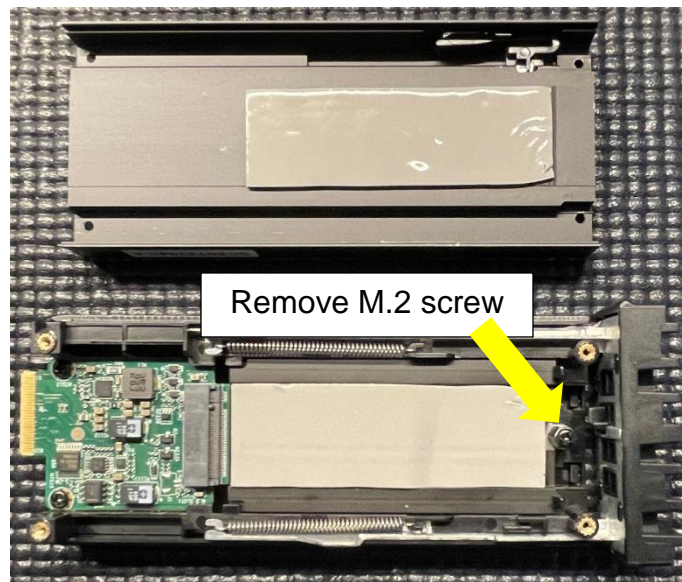
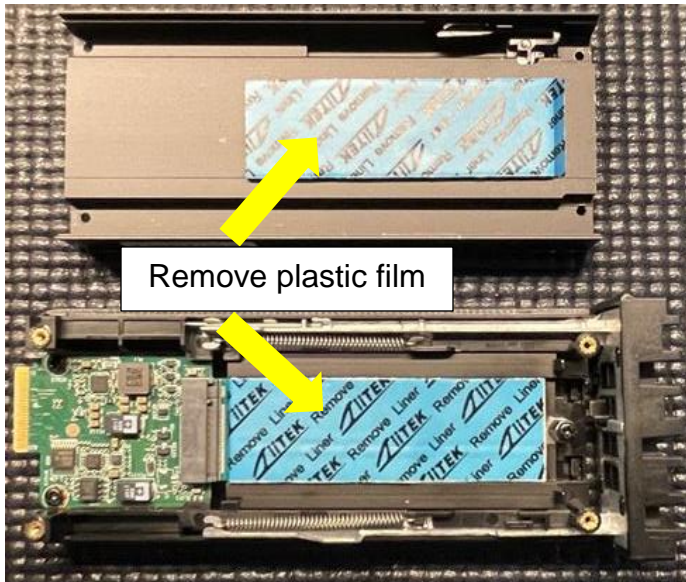
Note: Make sure the key lock is in the unlocked position or else the M.2 carrier(s) will not be able to be removed.



2. Place the M.2 carrier on a flat surface and remove the four (4) screws using a Phillips screwdriver. Make sure the M.2 carrier bezel is pushed back into the initial closed position.



3. Remove the top part of the M.2 carrier and place it upside down on a flat surface. Remove the thermal pad plastic film as well as the screw used to secure the M.2 drive to the M.2 carrier.

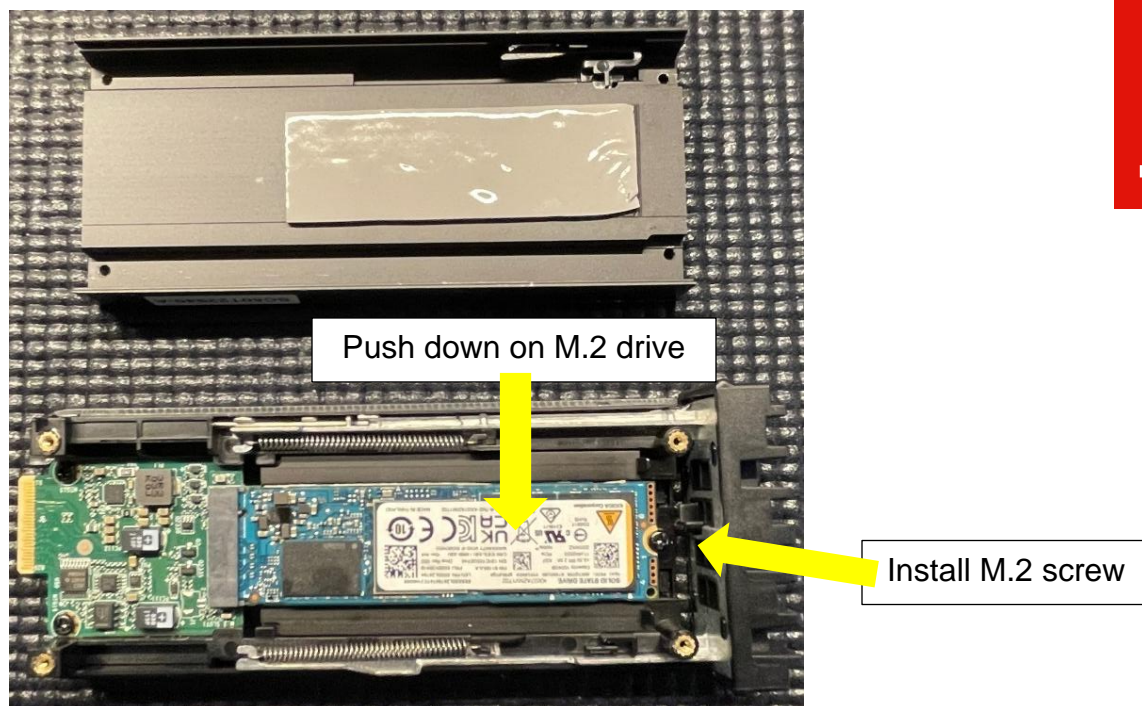


4. Install the M.2 drive at a slight 15-degree angle in the M.2 slot of the carrier.

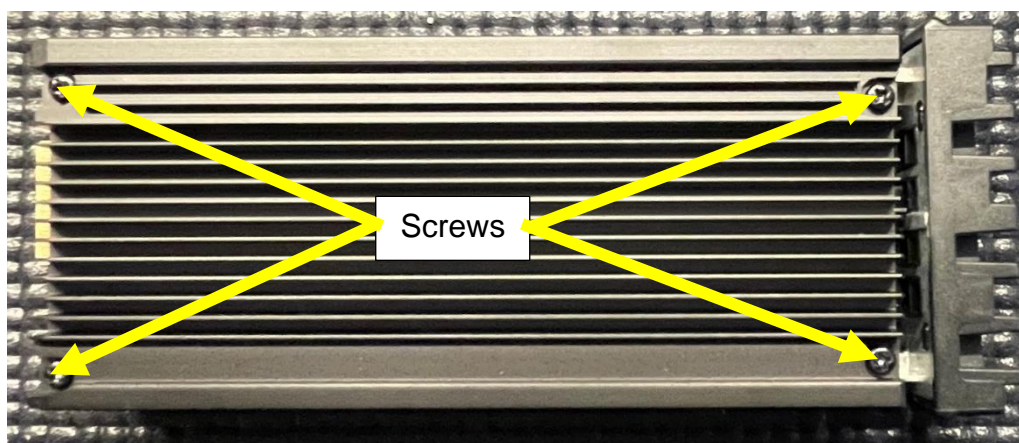
Caution: Be careful not to use excessive force to risk breaking the M.2 slot.



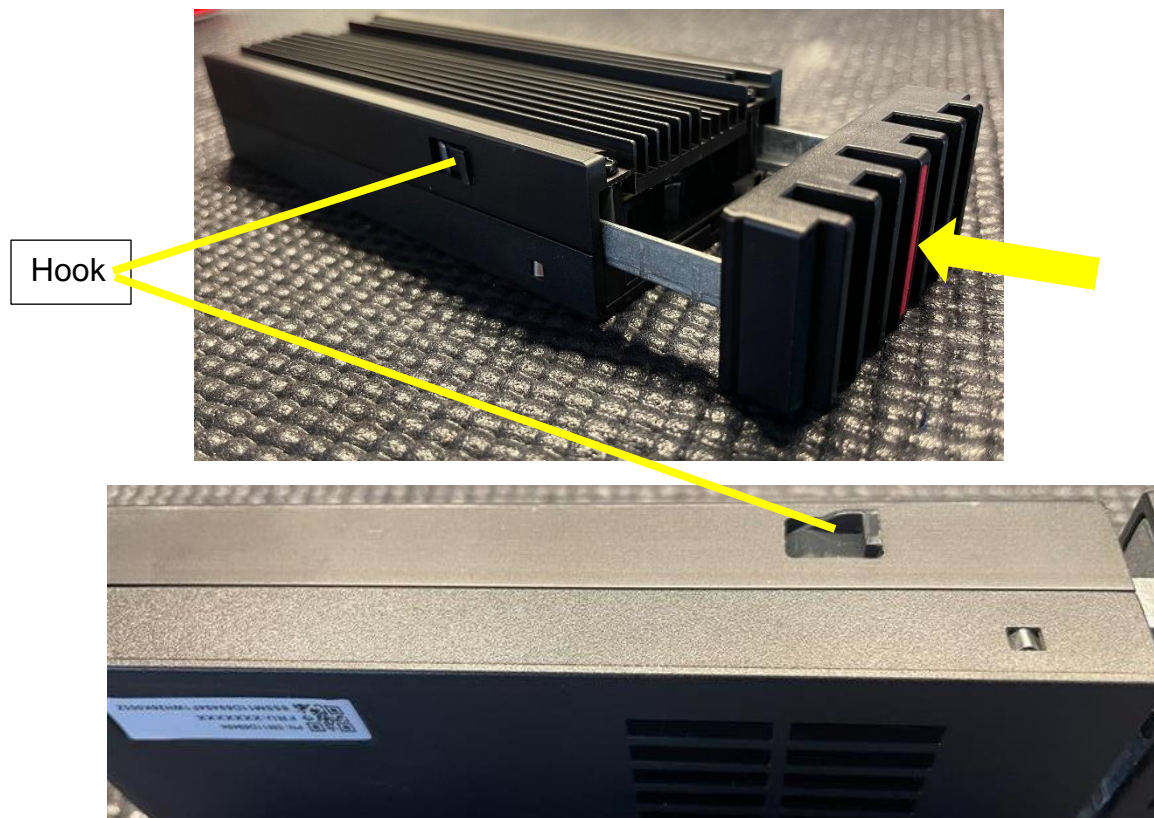
5. Push down on the M.2 drive and install the screw used to secure the M.2 drive to the M.2 carrier.



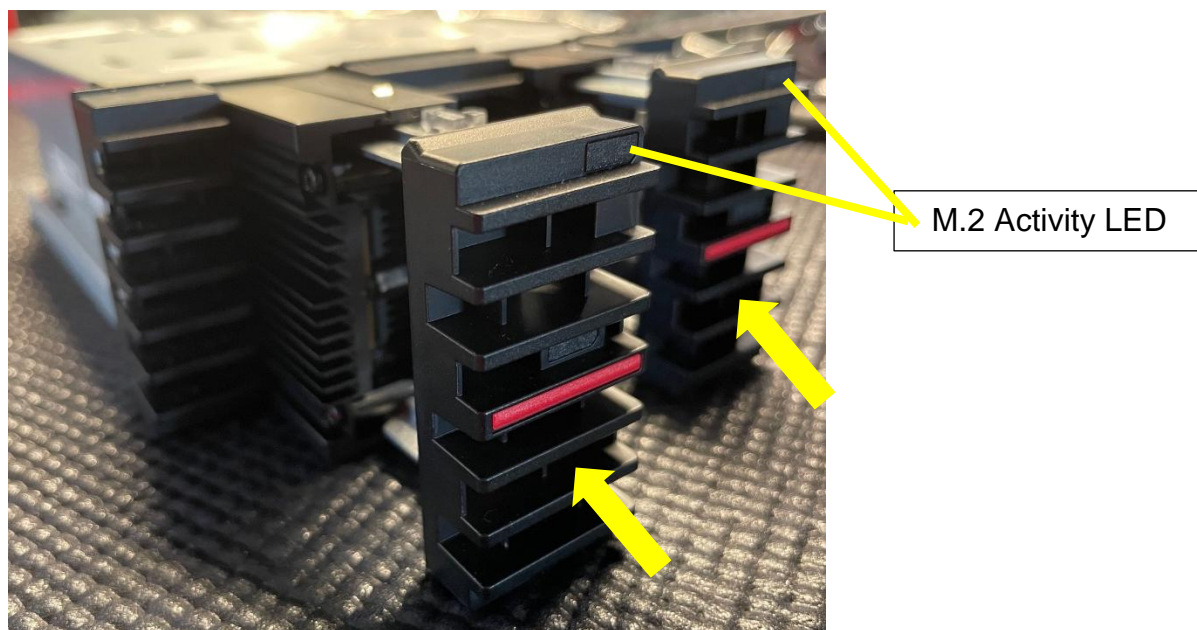
6. Install the top cover of the M.2 carrier and tighten all four (4) screws needed to secure the top and the bottom of the M.2 carrier together.



7. Push M.2 carrier bezel to release the hook and extend the M.2 carrier.



8. Install the M.2 carrier back into the Front Bay Assembly.

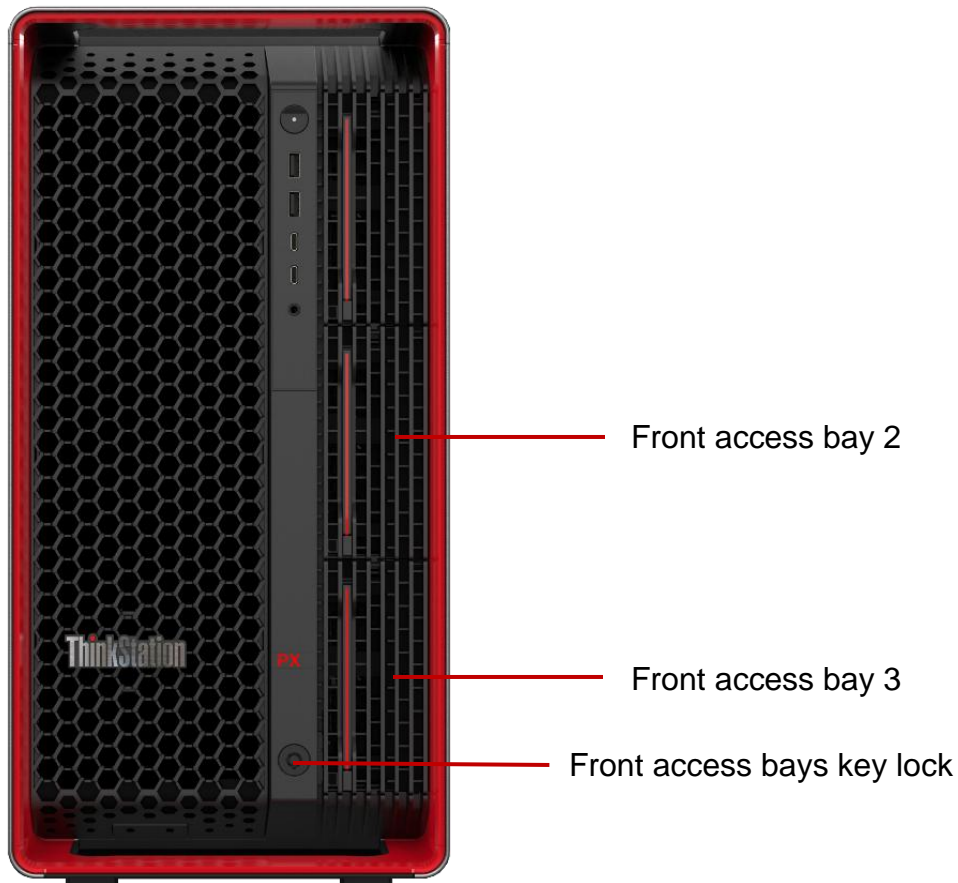


Front M.2 SSD Enclosure Installation

On ThinkStation PX models without Front M.2 SSD Enclosures installed previously, here are some step-by-step instructions on how to install the front M.2 SSD enclosure.

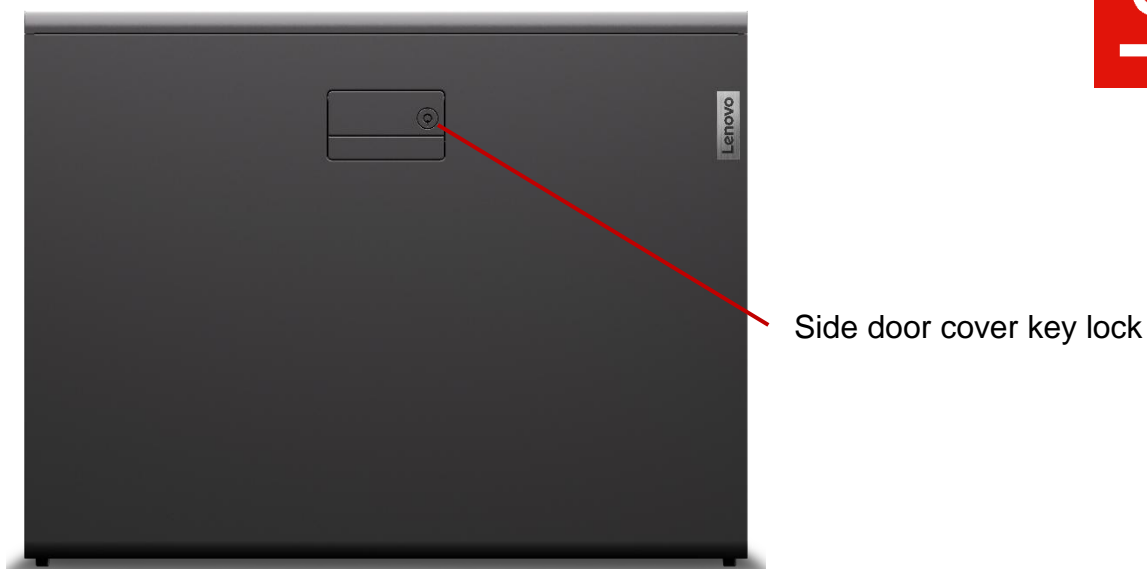
1. Remove the Front Access 3.5" HDD Tray from 'Front Access Bay 2' and/or 'Front Access Bay 3' depending on the number of front M.2 SSD enclosures to be installed.

Note: Some ThinkStation PX models may have the front access bay key lock installed. If so, make sure the front access bays are unlocked.



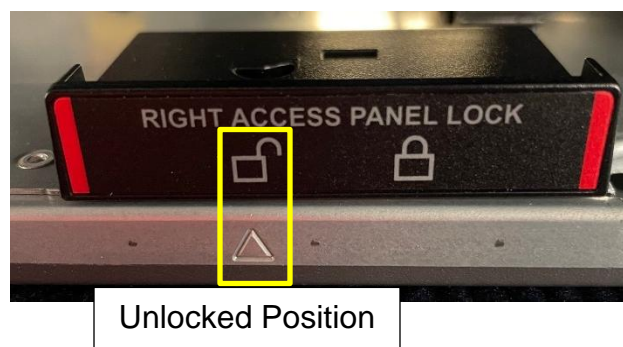
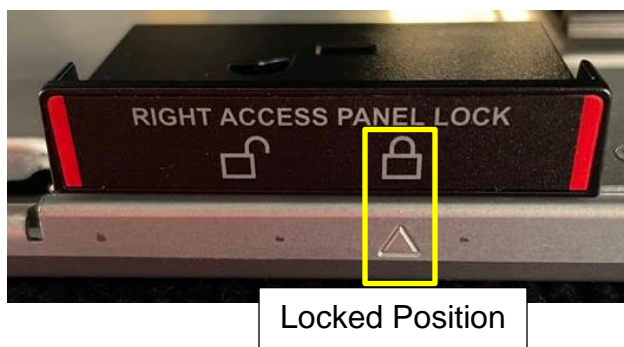
2. Remove the chassis side door cover (left).

Note: Some ThinkStation PX models may have the chassis side door key lock installed. If so, make sure the chassis side door cover is unlocked.

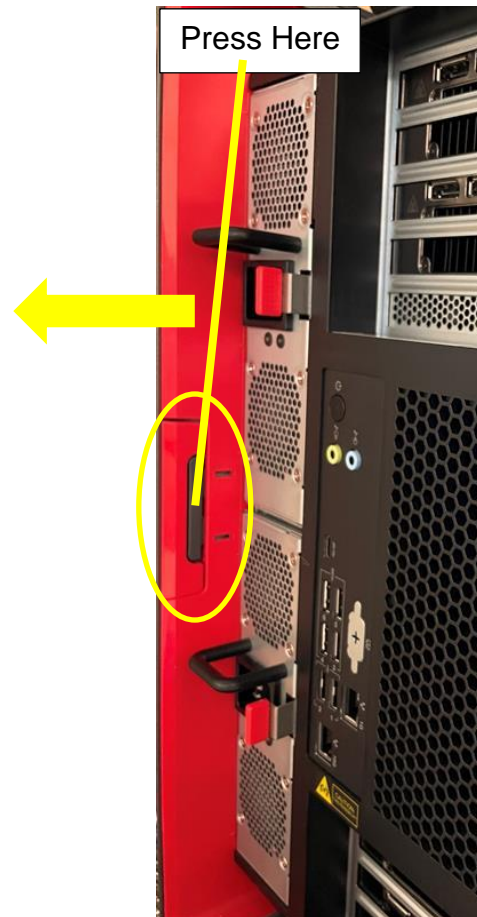


3. Remove the other chassis side door cover (right).

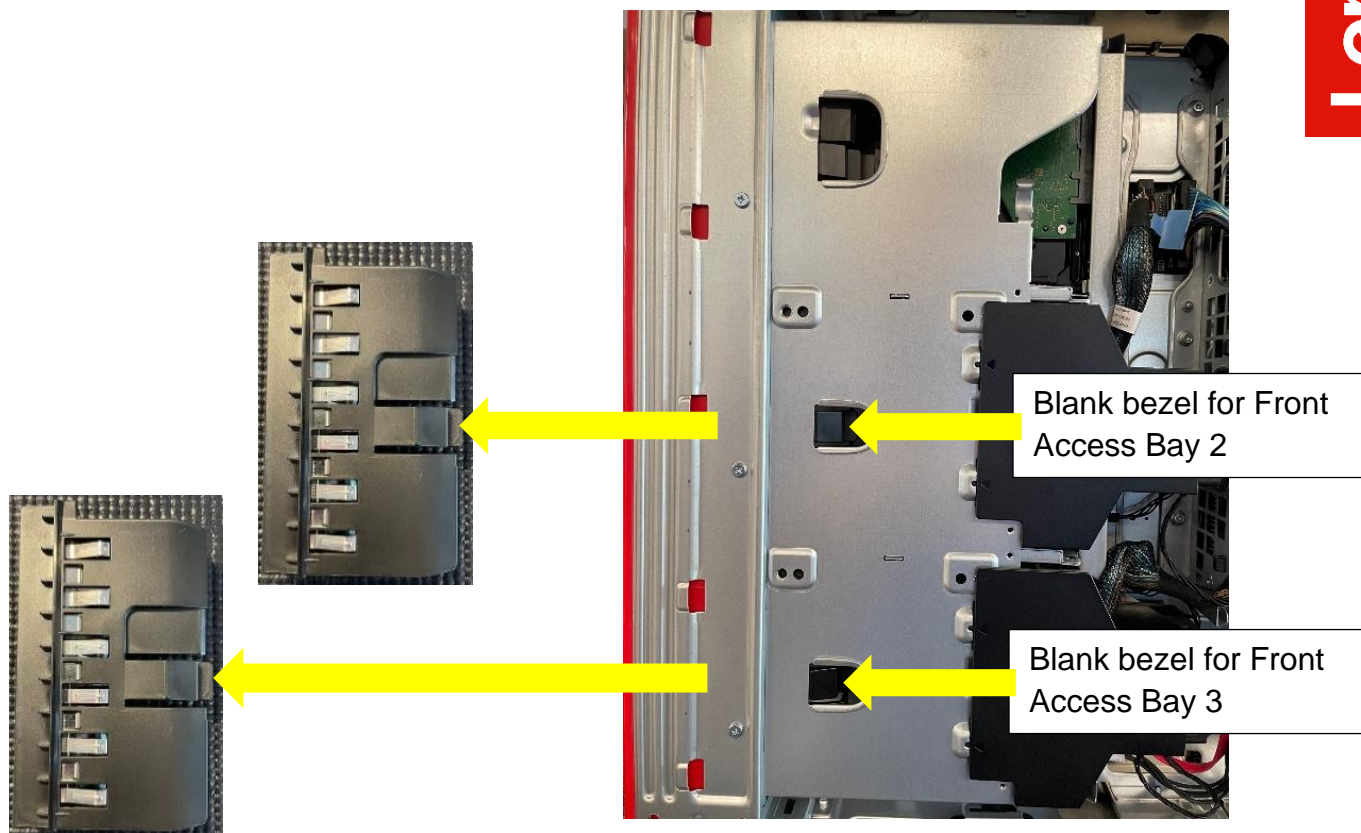
Note: There is a lock feature on the inside of the chassis that prevents the right side door cover from opening. This mechanism can slide left or right to move it to the unlocked or locked positions. To remove the side cover, move this mechanism to the unlocked position.



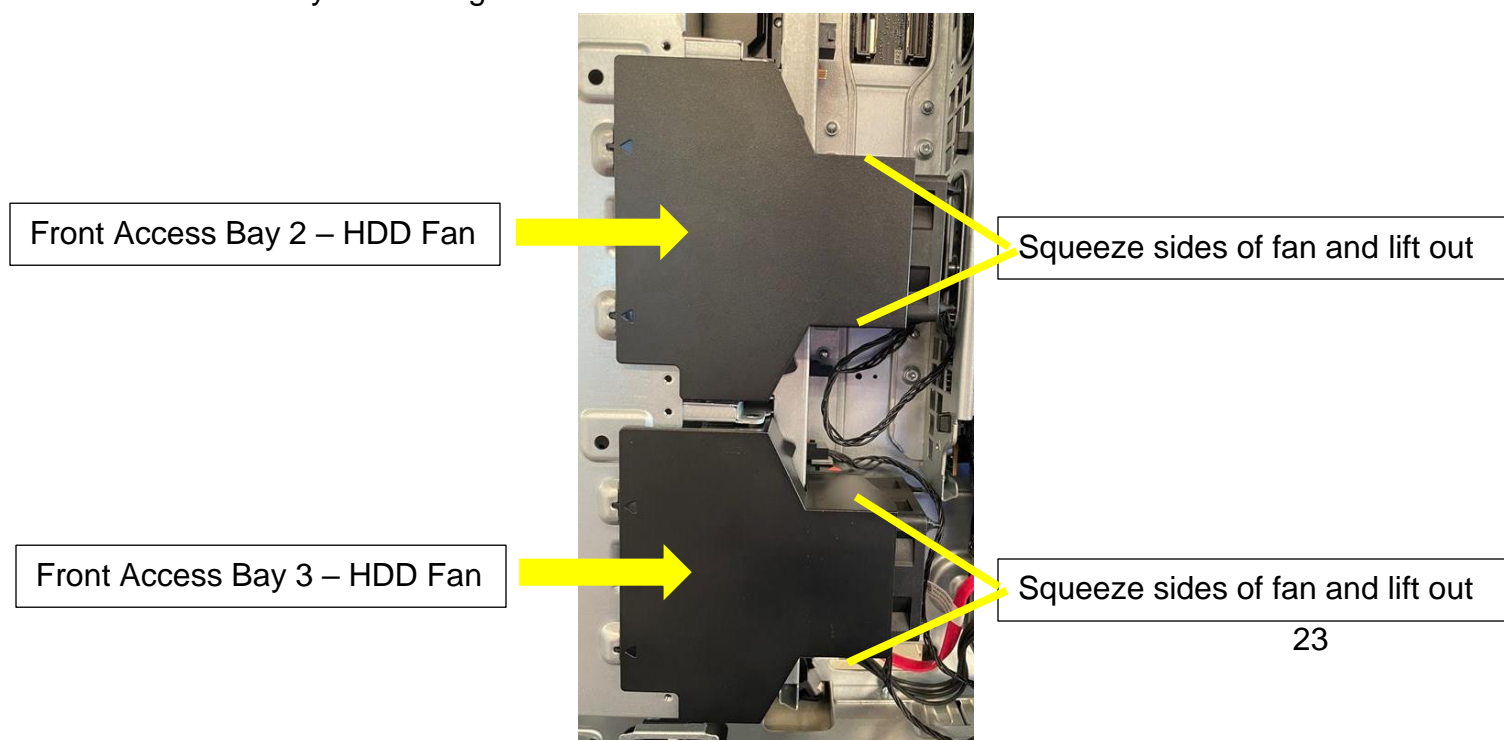
While looking at the rear side of the system, press the gray latch to release the hooks to slide the whole chassis side door cover back and out.



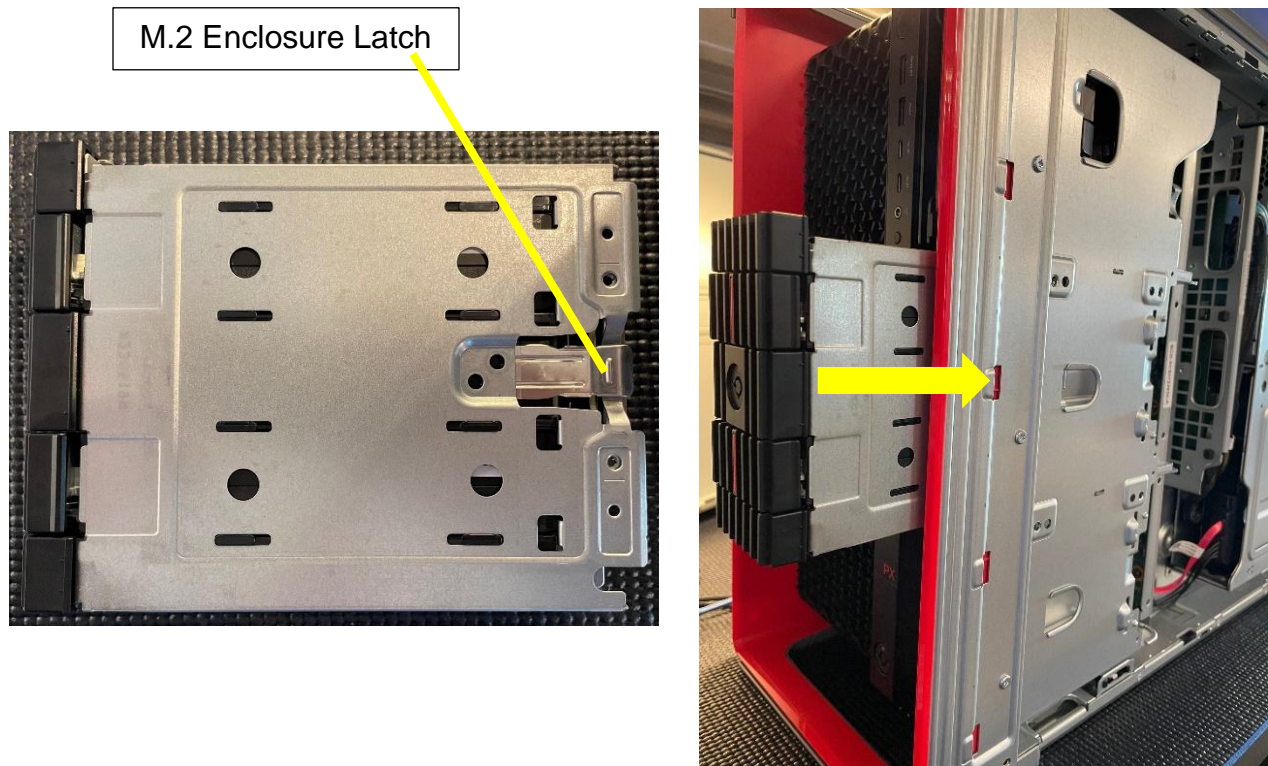
4. While looking at the right side of the system (under the motherboard), press the release tabs to remove the blank bezel for the front access bays 2 and/or 3 depending on how many M.2 storage enclosures to add.



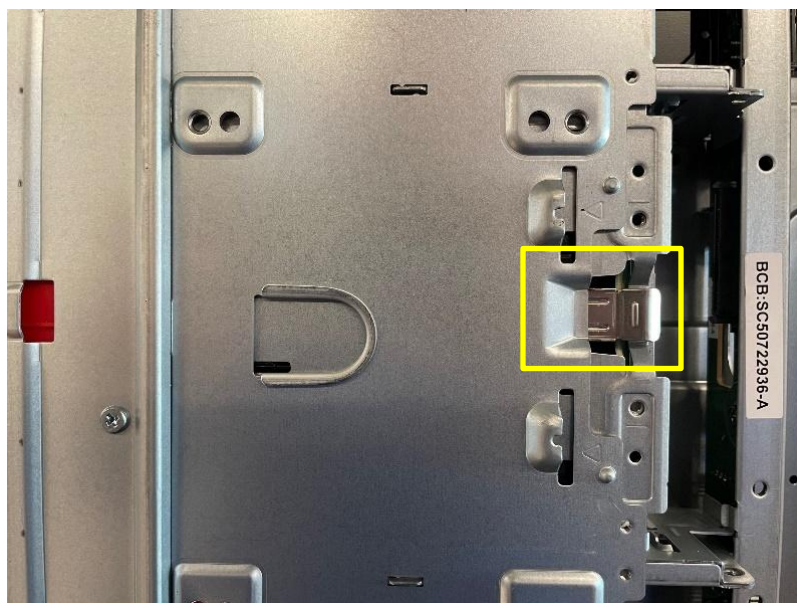
5. Remove HDD fans for the front access bay 2 and/or 3 depending on how many M.2 storage enclosures to add.



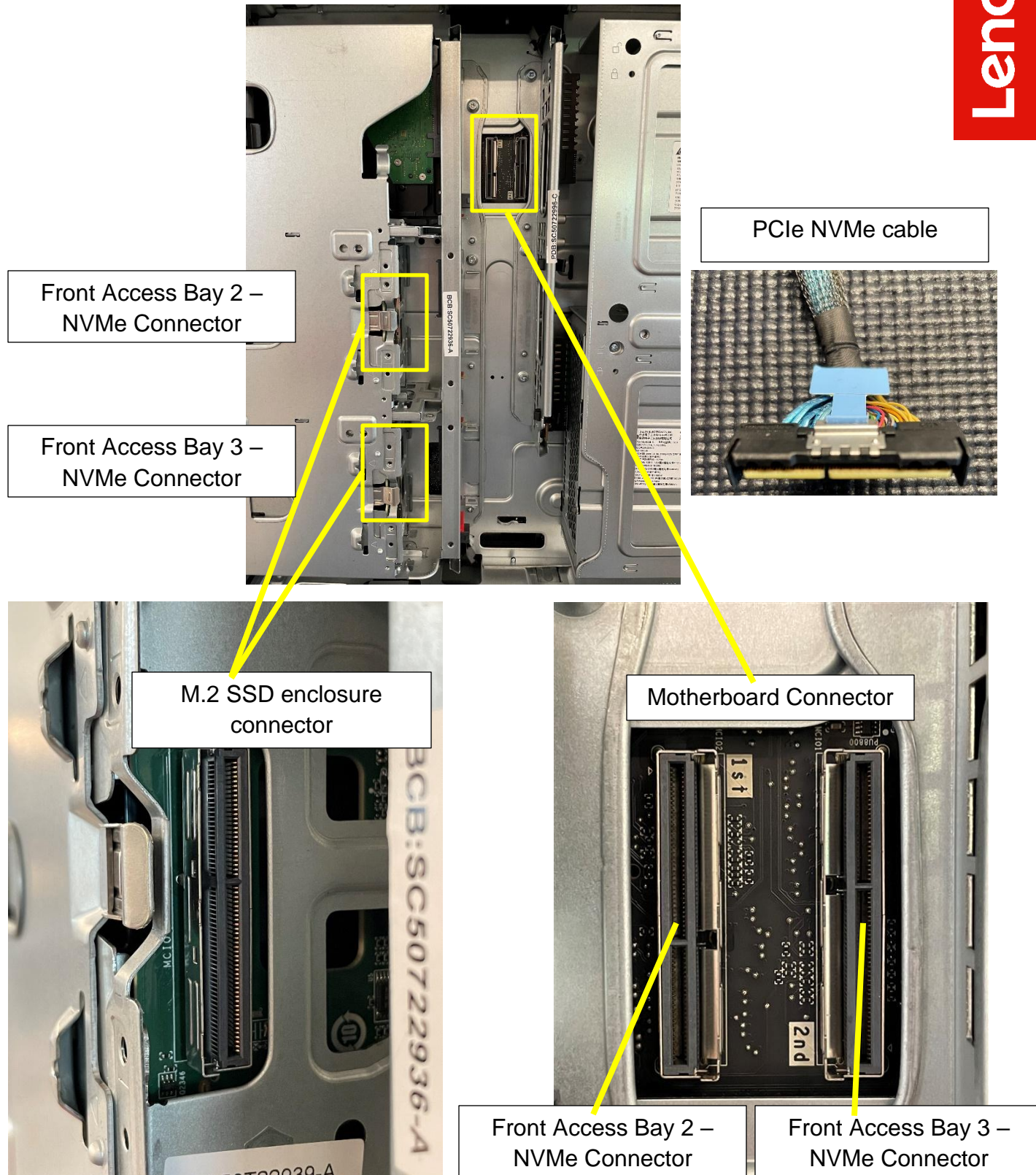
- Slide the M.2 SSD Enclosure into one of the front access bays with the latch facing the right side (under system board) of the system until it latches into the chassis.



- Make sure the M.2 SSD Enclosure latched into place as shown below.



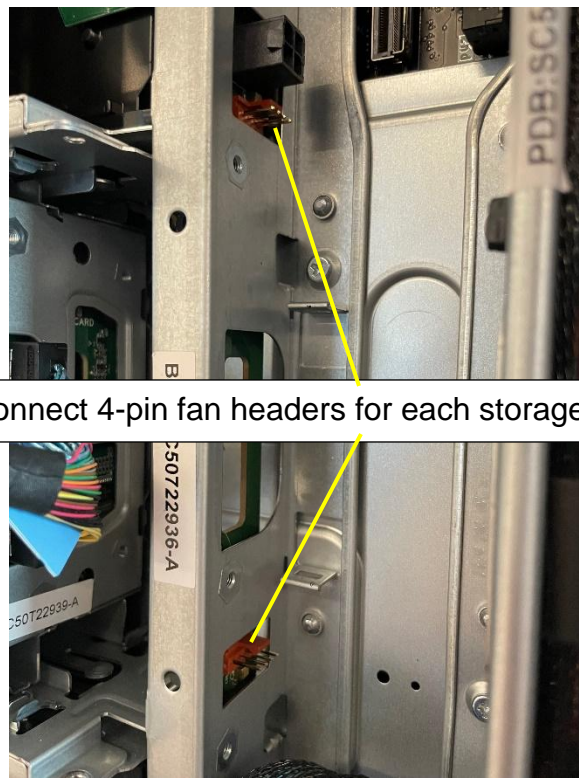
- Connect the PCIe NVMe cable to both the motherboard connector as well as the M.2 SSD enclosure.



9. Install the storage bay fans.



Align fan shroud clips to chassis



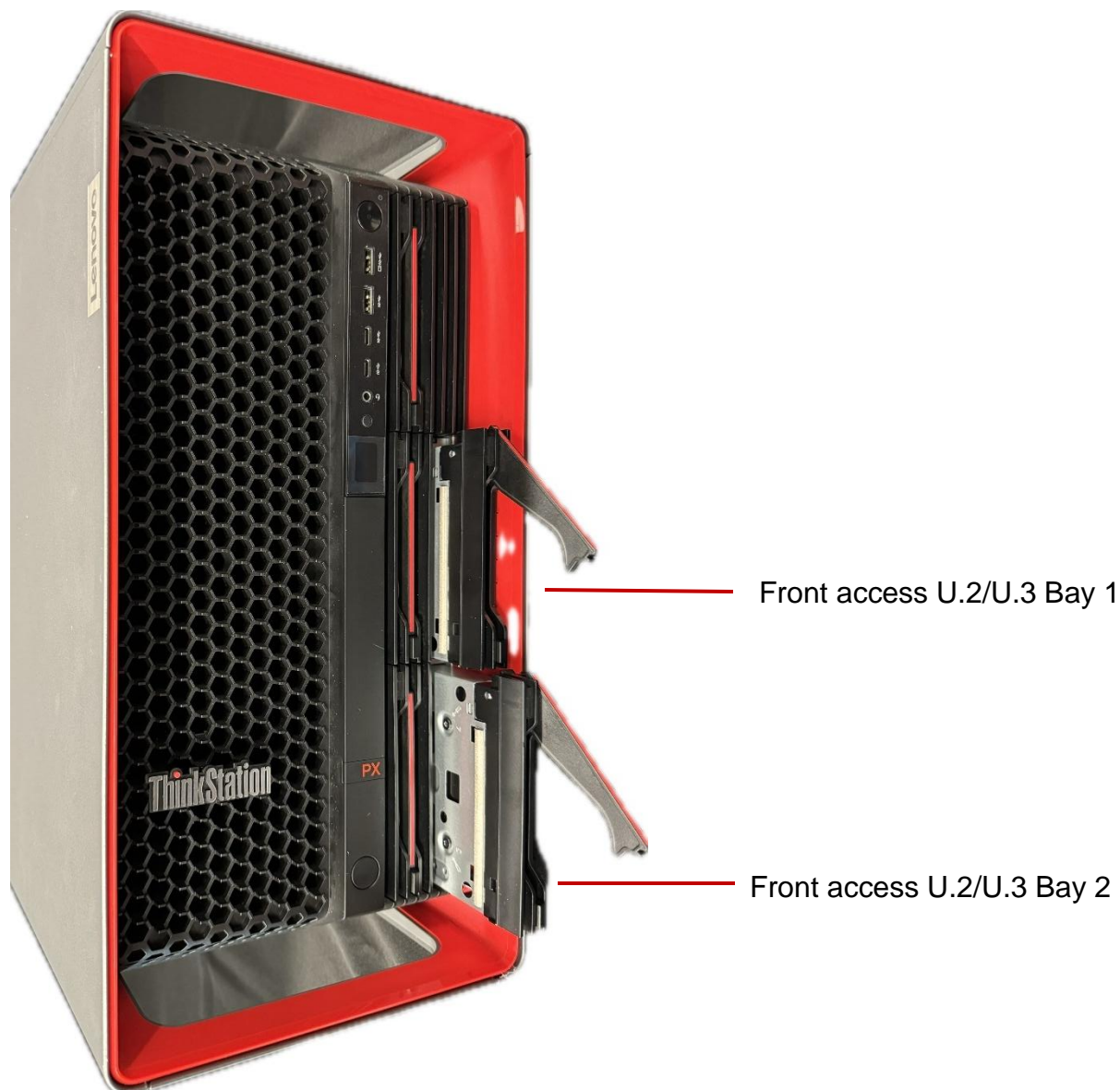
Connect 4-pin fan headers for each storage bay fans

10. Reinstall the right-side door cover to the chassis.

11. Reinstall the left-side door cover to the chassis.

Section 3 – PX U.2 / U.3 SSD Drives on CPU-based Controller

The Lenovo ThinkStation PX platform supports a variety of different storage devices. Table 6 shows the available features for U.2/U.3 SSD drives utilizing the CPU-based controller. Table 7 highlights the compatibility and requirements for U.2/U.3 SSD drives utilizing the CPU-based controller.





HDD Activity LED



ThinkStation PCIe Single U.2 / U.3 SSD Adapter

Table 7 - Features for U.2 / U.3 SSD drives on CPU-based controllers

| Feature | PCIe Single U.2/U.3 SSD Adapter | Front Access Bay U.2/U.3 SSD enclosure (#1) | Front Access Bay U.2/U.3 SSD enclosure (#2) |
|--|--|---|---|
| Drive Count (System max = 4) | Up to 2 | 1 | 1 |
| Maximum PCIe speed | Gen5 | Gen5 | Gen5 |
| Availability | Optional | Optional | Optional |
| Location | Motherboard PCIe Slots | Front access bay 2 (right side) | Front access bay 3 (right side) |
| Controller | CPU 1: PCIe Slots 6-9 CPU 2: PCIe Slots 1-4 | CPU2 | CPU2 |
| Maximum power per drive | 17W | 17W | 17W |
| RAID support | Not Supported | RAID 0, 1 ¹ | |
| Front accessible | No | Yes | Yes |
| Toolless | Yes | Partial ² | Partial ² |
| Hot swappable | No | Yes | Yes |
| Individual activity/status LEDs | No | Yes | Yes |
| Combined in system activity LED | Yes | Yes | Yes |

¹ Each PCIe x16 port off the Intel CPU forms a logical Volume Management Device (VMD). Intel VROC only supports booting to RAID volumes within a single VMD.

² A screwdriver is required to install the drive into the sub enclosure, but then the sub enclosure can be removed from the main enclosure without tools.

Table 8 - Compatibility and parts requirements for U.2 / U.3 SSD drives on CPU-based controller

| Drive Installation | Compatibility | Requirements and Parts |
|---|--|---|
| Front Access Bay U.2 / U.3 SSD Enclosure x 1 | Compatible with the following front access combinations: <ul style="list-style-type: none"> • 3 x SATA HDDs • 2 x SATA HDDs + 1 x Dual M.2 SSD enclosure | <ul style="list-style-type: none"> • System must have two CPUs installed • Front access bay U.2/U.3 SSD enclosure • Motherboard NVMe bay2 Gen5 cable • Storage bay 5038 fan • RAID requires Intel VROC key¹ |
| Front Access Bay U.2 / U.3 SSD Enclosure x 2 | Compatible with the following front access combinations: <ul style="list-style-type: none"> • 3 x SATA HDDs | <ul style="list-style-type: none"> • System must have two CPUs installed • Front access bay U.2/U.3 SSD enclosure • Motherboard NVMe bay 2 Gen5 cable • Motherboard NVMe bay3 Gen5 cable • (2) Storage bay 5038 fans • RAID requires Intel VROC key¹ |
| PCIe Single U.2 / U.3 SSD Adapter | Requires available PCIe x16 slot. | <ul style="list-style-type: none"> • ThinkStation PCIe Single U.2 / U.3 SSD Adapter |

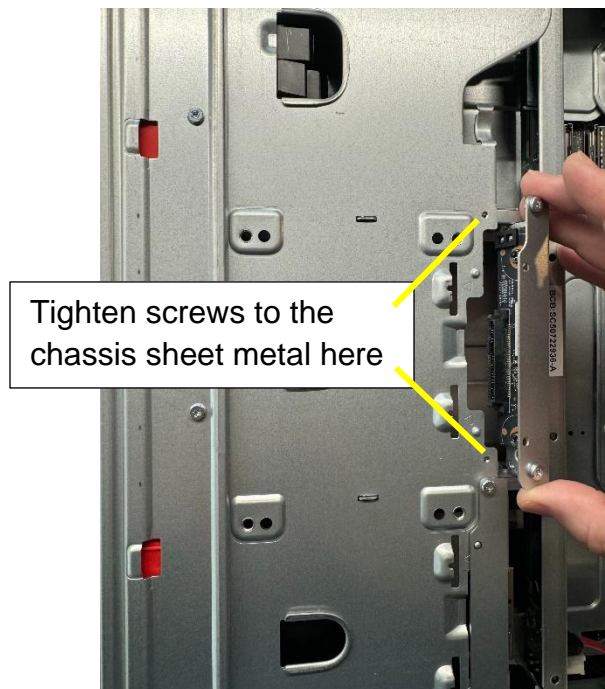
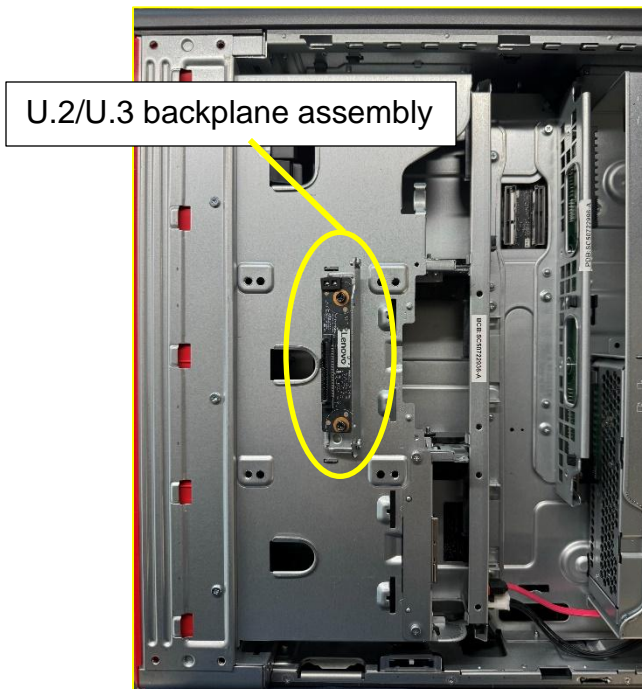
¹Intel Virtual RAID On CPU (VROC). Basic Intel VROC key supports RAID 0, 1, and 10. Premium Intel VROC key supports RAID 0, 1, 5, and 10. One Intel VROC key supports all NVMe drive locations.

Front U.2 / U.3 SSD Enclosure Installation

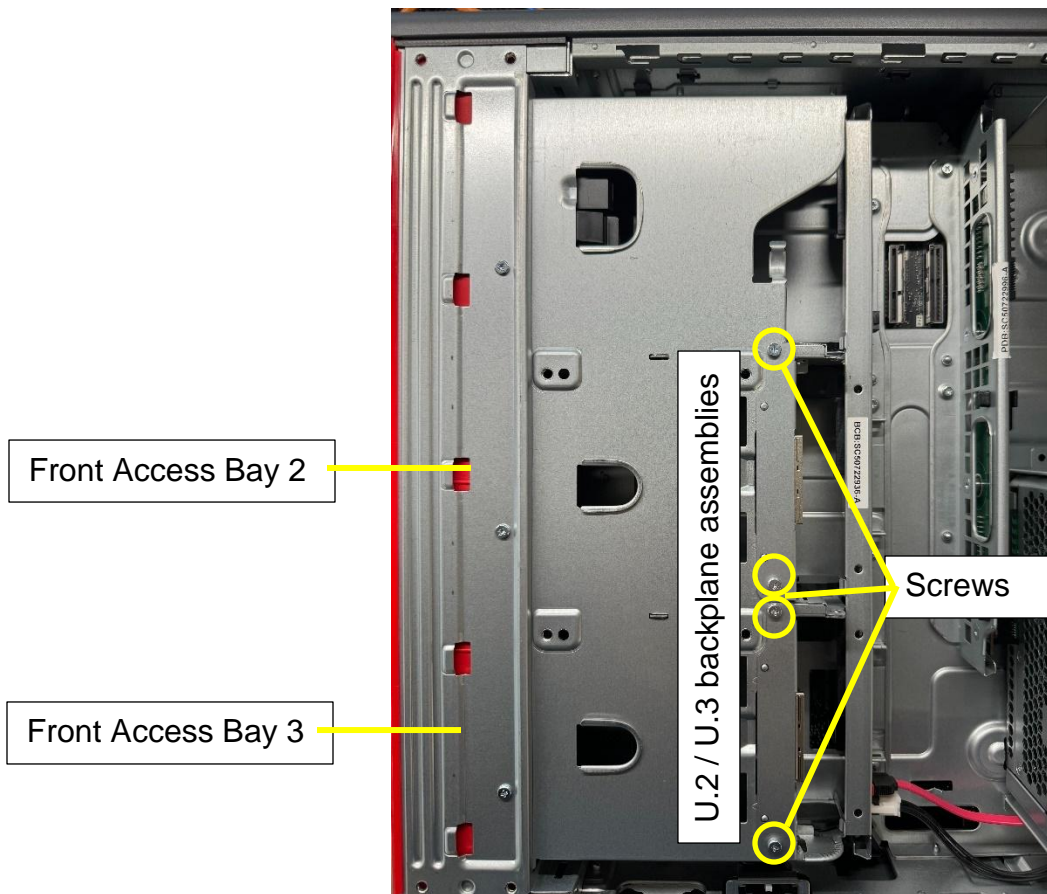
On ThinkStation PX models without Front U.2 / U.3 SSD Enclosures installed previously, here are some instructions on how to install the front U.2 / U.3 SSD enclosure.

**Note: Front Access 3.5" HDD Trays do NOT need to be removed from the system but will need to make sure the front access bays are unlocked if the system is equipped with the front access bay key lock.*

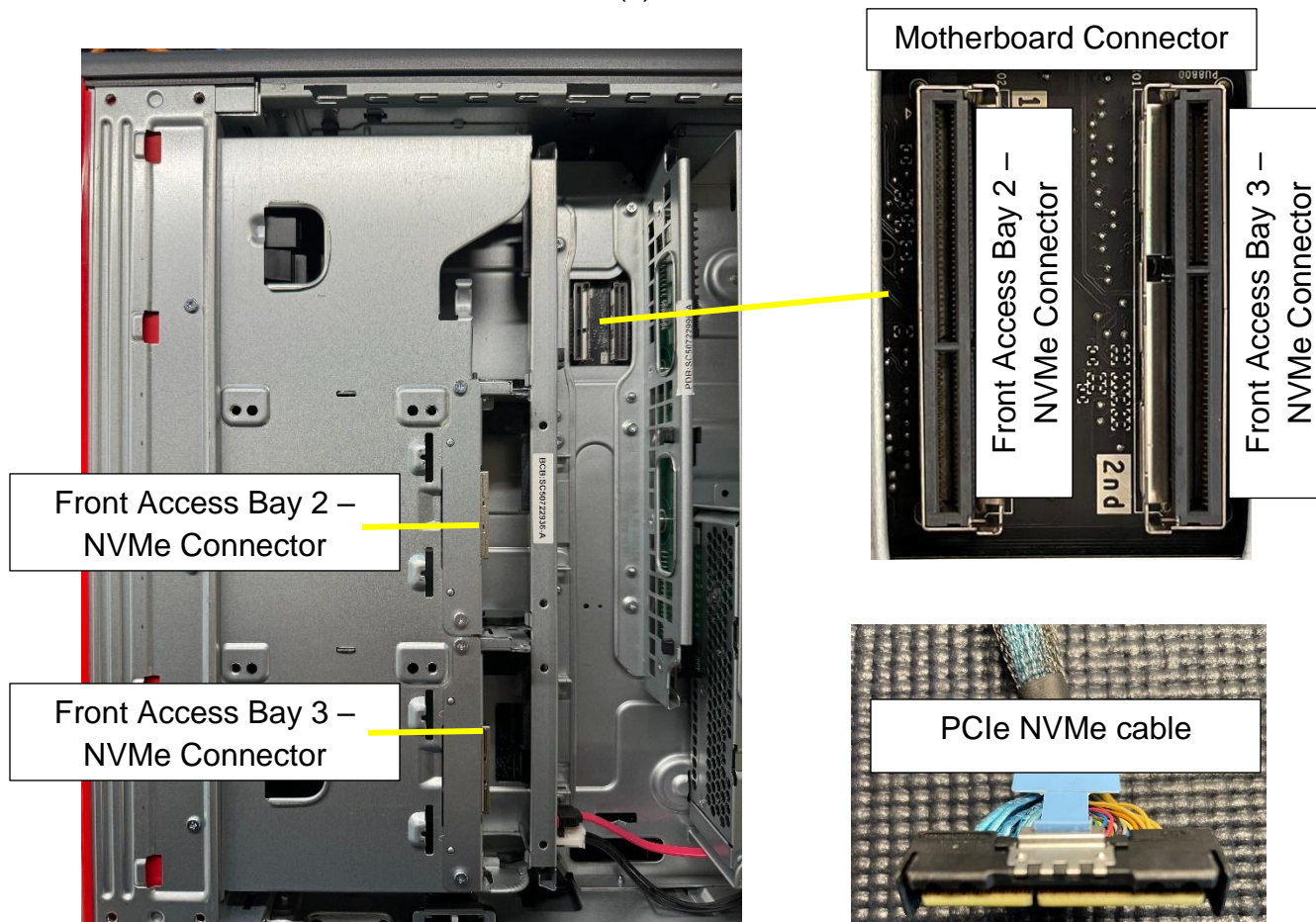
1. Remove the chassis side door cover (left) as highlighted in the previous section.
2. Remove the other chassis side door cover (right) as highlighted in the previous section.
3. Remove the blank bezel and HDD fans as highlighted in the previous section.
4. Install the U.2 / U.3 backplane assembly, with the PCB pointing downward and tighten the two screws to the chassis sheet metal.



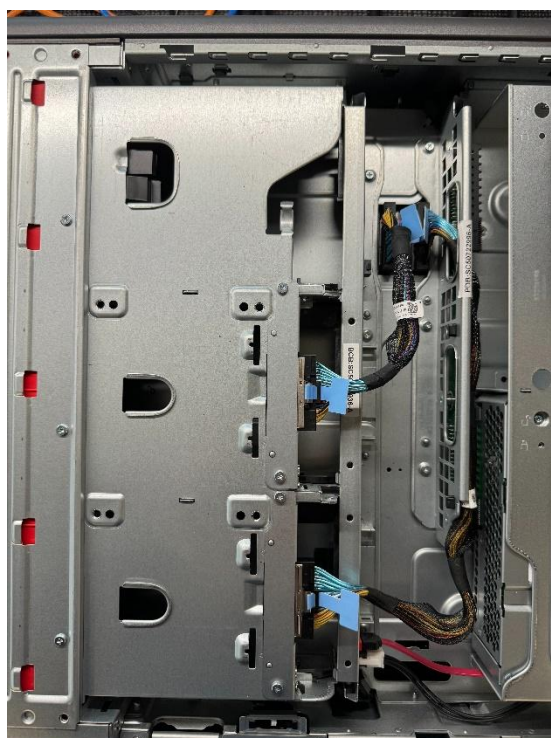
5. The below picture shows what the system should look like with both (2) U.2 / U.3 backplane assemblies installed.



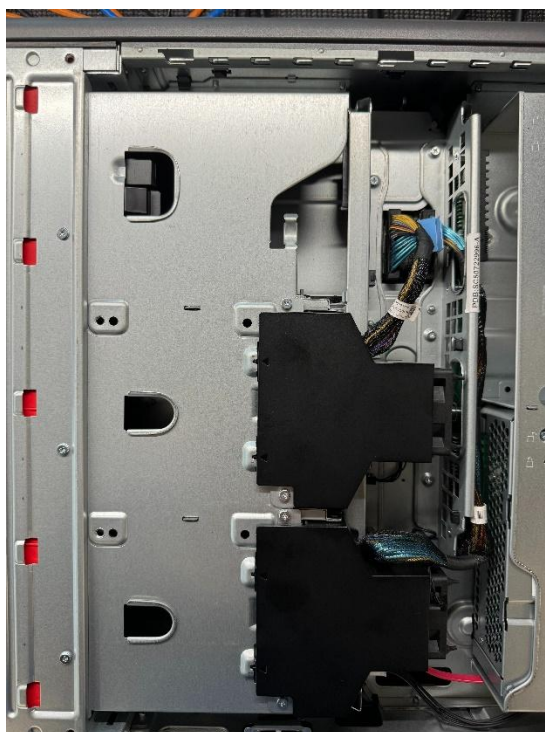
6. Connect the PCIe NVMe cable(s) to both the motherboard connector as well as the U.2 / U.3 SSD enclosure(s).



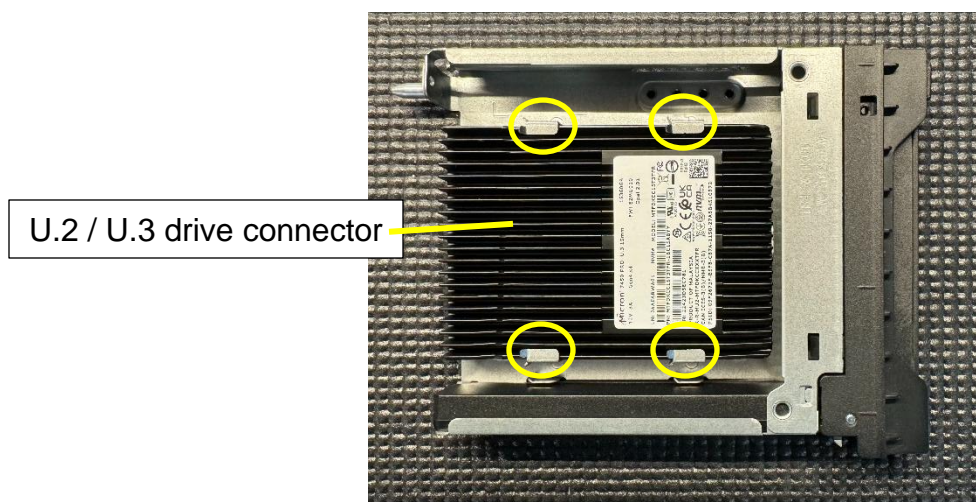
Note: Here is a general overview of what the cables should look like when they get connected.



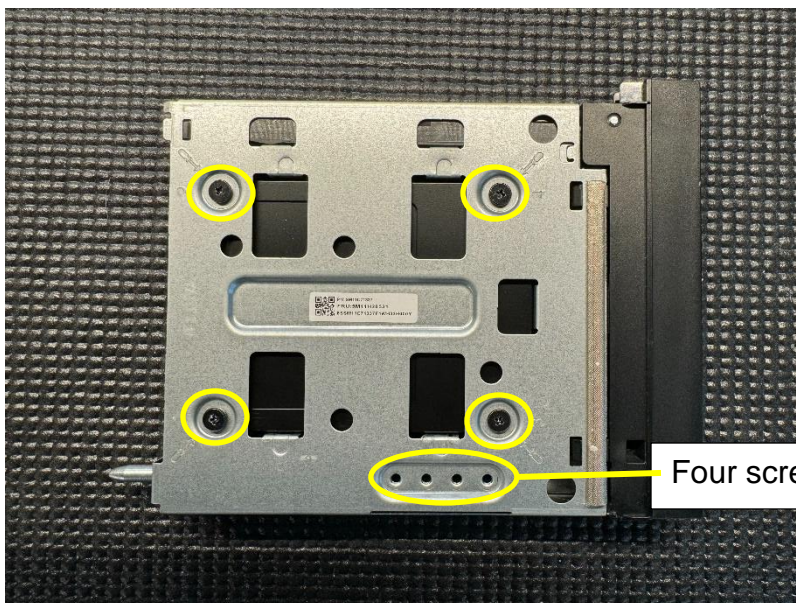
7. Reinstall the HDD fan assemblies as shown in the previous section.
Note: Here's what the HDD fan assemblies should look like when they get reinstalled.



8. Reinstall the chassis side door cover (right) as shown in the previous section.
9. Reinstall the chassis side door cover (left) as shown in the previous section.
10. Install the U.2 / U.3 drive into the tray by sliding the drive under the four metal tabs as shown with the drive connector facing out.



11. Turn the drive tray over and install the four supplied screws to the drive as shown below.



Four screws supplied here

12. Install the drive tray(s) in the front access bay(s) making sure the red handle is propped open before sliding the tray fully into the drive bay. Once the drive tray is fully installed, then close the red handle.



U.2/U.3 drive tray handles open

Section 4 – PX SATA Drives on Chipset-based Controller

The Lenovo ThinkStation PX platform supports a variety of different storage devices. Table 5 shows the available features for SATA drives utilizing the chipset-based controller. Table 6 highlights the compatibility and requirements for SATA drives utilizing the chipset-based controller.

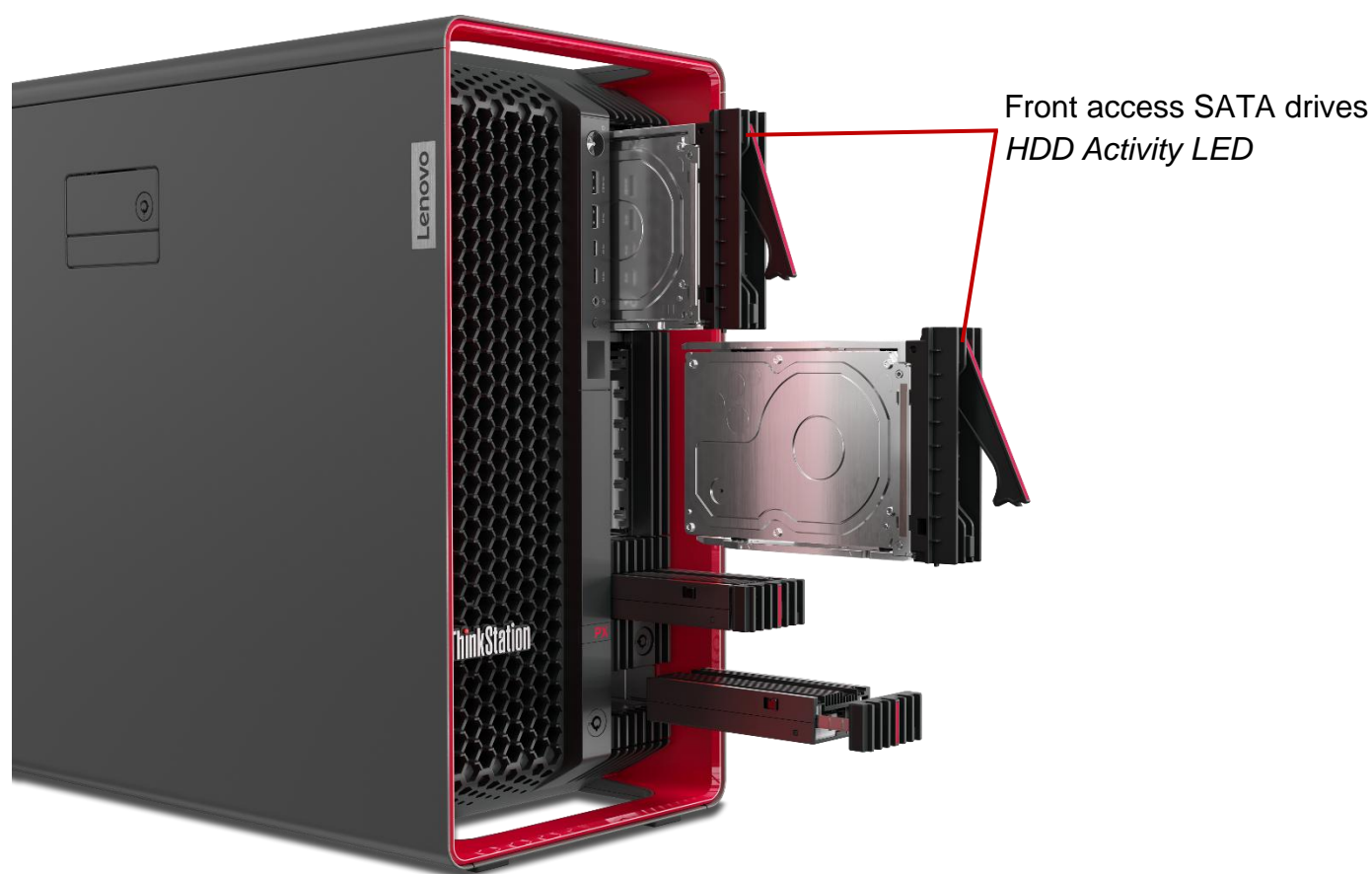


Table 9 - Features for SATA drives on Chipset-based controller

| Feature | Front Access Bay 1 | Front Access Bay 2 | Front Access Bay 3 | PSU bay storage enclosure |
|---------------------------------|--|--------------------|--------------------|---------------------------|
| Drive Count (System max = 4) | 1 | 1 | 1 | 1 |
| Drive Size | 3.5" only | 3.5" only | 3.5" only | 3.5" only |
| Maximum SATA Speed | 6Gb/s SATA3 | 6Gb/s SATA3 | 6Gb/s SATA3 | 6Gb/s SATA3 |
| Availability | Standard | Standard | Standard | Optional |
| Location | Front Access Bay 1 | Front Access Bay 2 | Front Access Bay 3 | PSU Bay 2 |
| Controller | PCH | PCH | PCH | PCH |
| RAID support | RAID 0, 1, 5, 10 (data array only on Windows) ¹ Intel VROC Key is not required for SATA RAID. | | | |
| Front accessible | Yes | Yes | Yes | No |
| Toolless | Yes | Yes | Yes | No |
| Hot swappable | Yes | Yes | Yes | No |
| Individual activity/status LEDs | Yes | Yes | Yes | No |
| Combined in system activity LED | Yes | Yes | Yes | No |

¹ Microsoft Windows 11 no longer supports booting from magnetic rotational media.

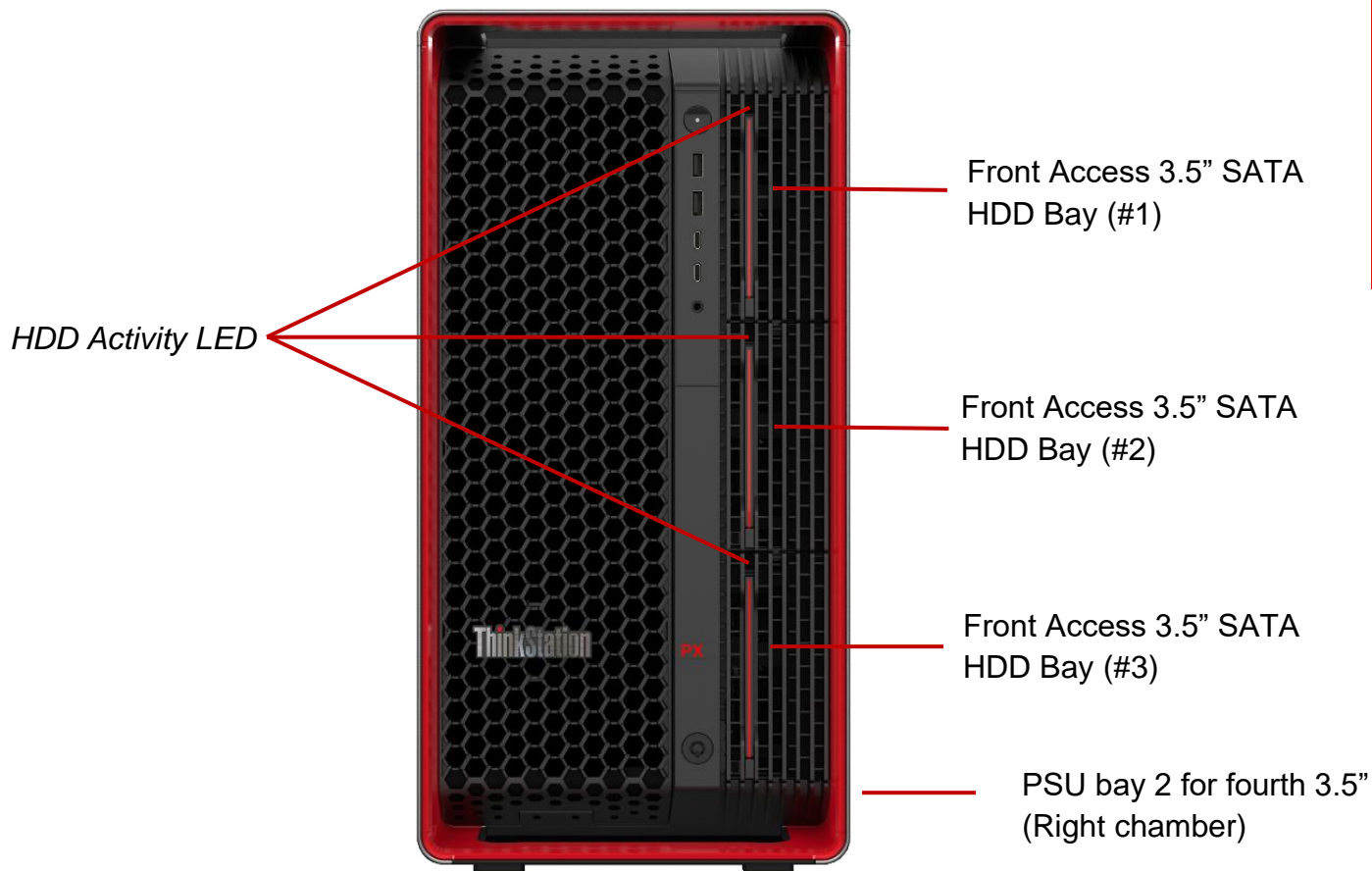


Table 10 - Compatibility and parts requirements for SATA drives on Chipset-based controller

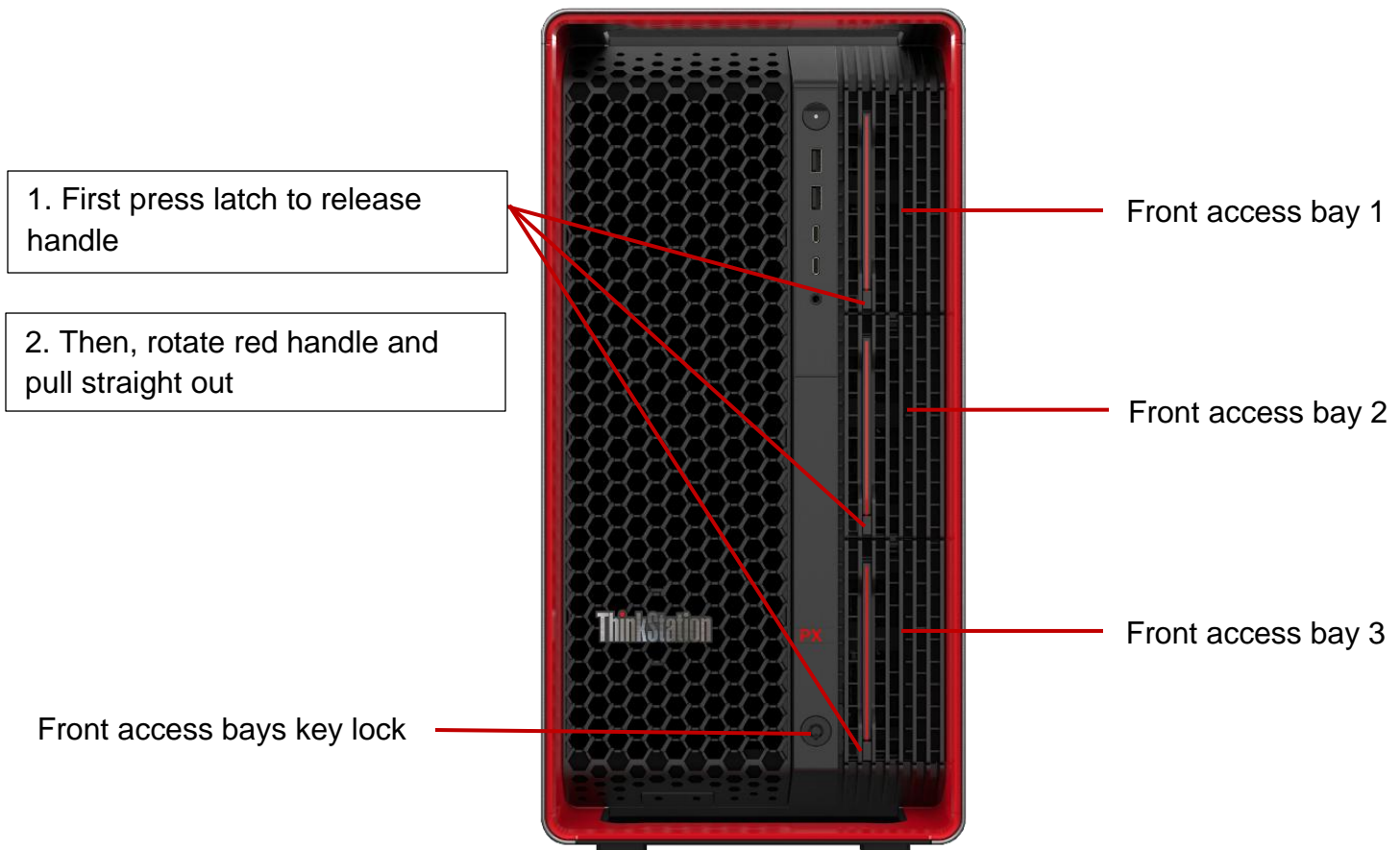
| Location | Compatibility | Requirements and Parts |
|----------------------------------|--|---|
| Front Access Bay 1 | <ul style="list-style-type: none"> 3 x SATA drives compatible simultaneously together. 2 x SATA drives compatible with the following front access combinations: <ul style="list-style-type: none"> 1 x Dual M.2 enclosures 1 x SATA drive compatible with the following front access combinations: <ul style="list-style-type: none"> 2 x Dual M.2 enclosures | SATA backplane on Bays 1, 2, 3 included standard |
| Front Access Bay 2 | | |
| Front Access Bay 3 | | |
| PSU bay storage enclosure | <ul style="list-style-type: none"> 1850 Watt, 92%, Tool-less Power Supply #2 (second power supply for redundancy or teamed power) | PSU bay storage enclosure (includes enclosure/card/fan/cable) |

3.5" SATA HDD Installation using the Front Access Bays

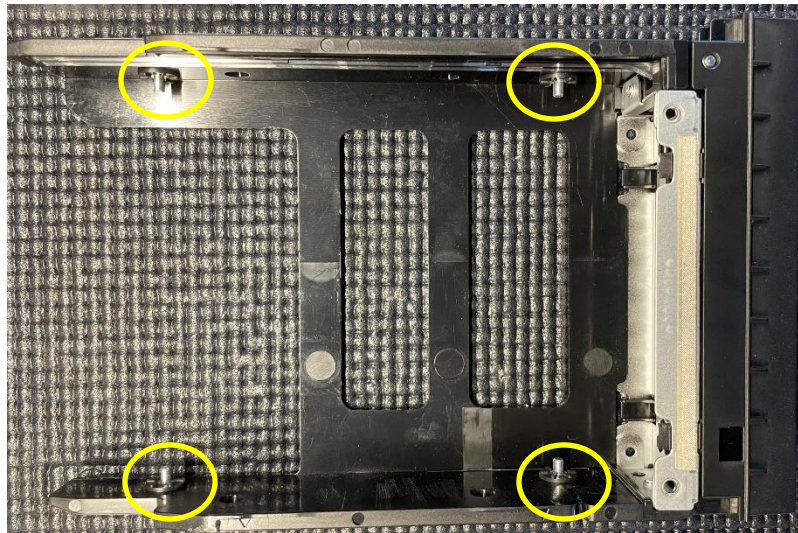
On ThinkStation PX models without Front M.2 SSD Enclosures installed previously, the user has the option to put up to three (3) 3.5" SATA HDDs in the front access bays. Here are some step-by-step instructions on how to install 3.5" SATA HDDs in the front access bays.

1. Remove the Front Access 3.5" HDD Tray from any of the front access bays that do not have front M.2 SSD enclosures installed.

Note: Some ThinkStation PX models may have the front access bay key lock installed. If so, make sure the front access bays are unlocked.



- Place the 3.5" front access tray on a flat surface and note the location of the pegs.



Tray Handle

- Install the 3.5" SATA HDD in the front access tray. Note, the HDD SATA data and power connections should face away from the front access tray handle.

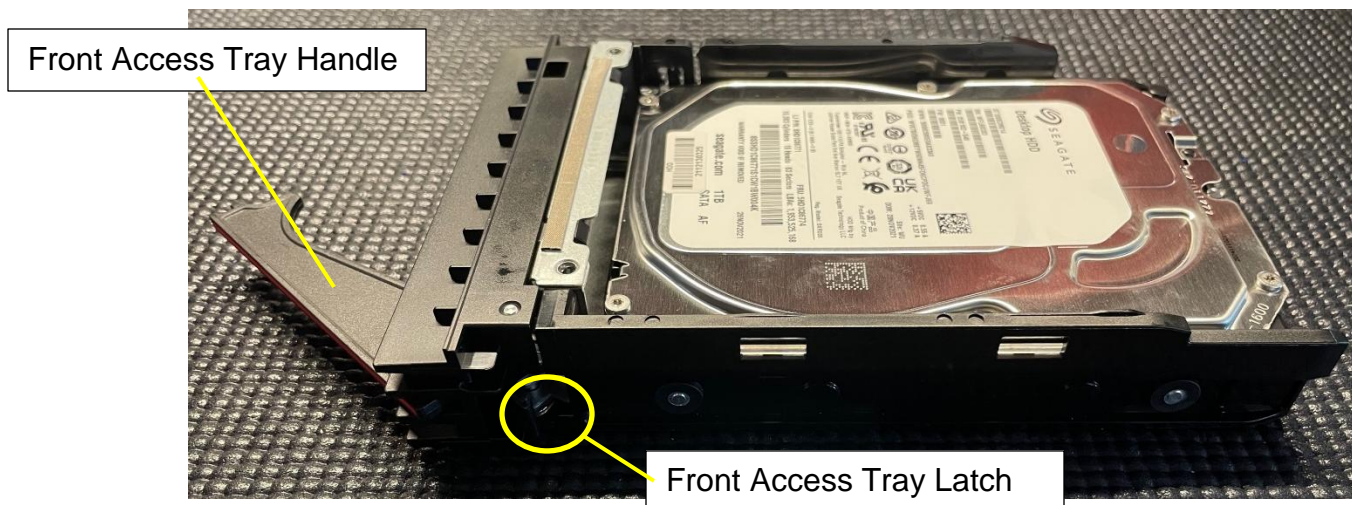


SATA Power Connector

SATA Data Connector

Tray Handle

4. Prior to installing the front access tray into the front access bay, make sure the red handle and latch be opened as shown in the picture.

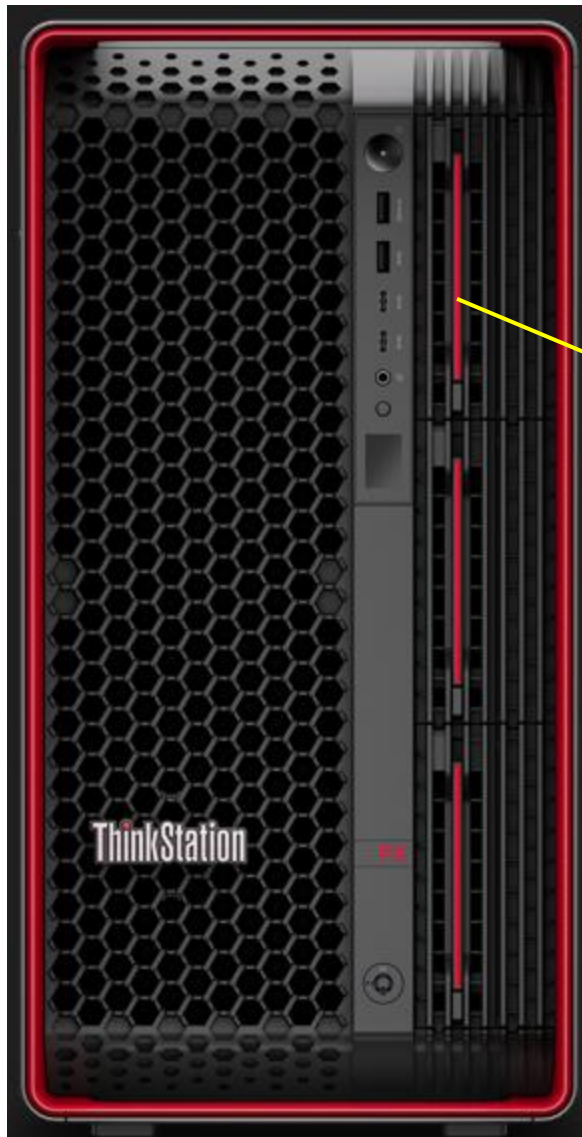


5. Slide the front access HDD tray into the front access bay as shown below.



Press here on the tray assembly, not on the red handle

6. Close the red handle on the front access HDD tray as shown below.



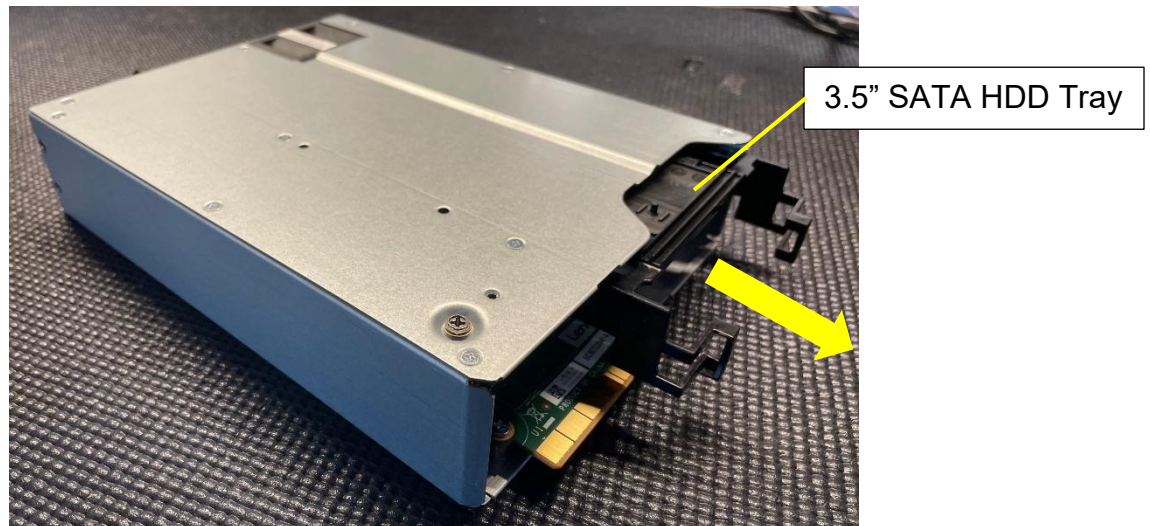
Push red handle in until it latches

7. Repeat the steps above for additional 3.5" SATA HDDs to be installed in the front access bays.

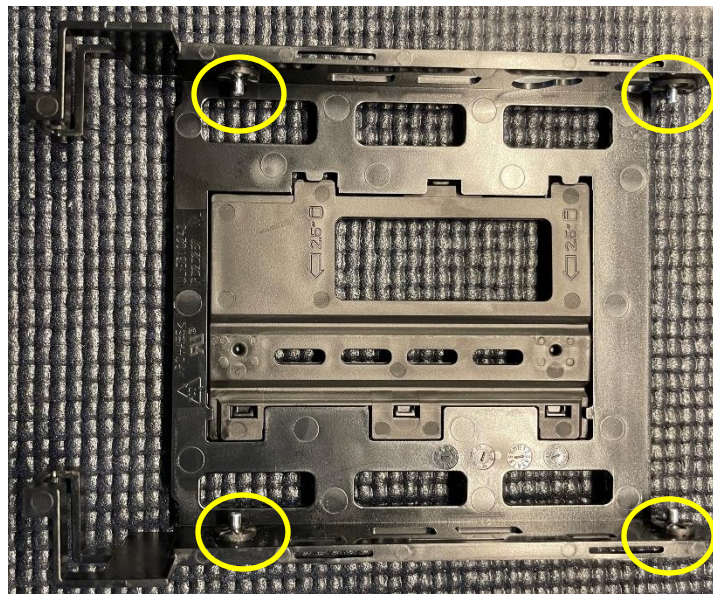
3.5" SATA HDD Installation using the Optional Second Power Supply Bay

On ThinkStation PX models without the use of a second power supply, the user has the option to install a 3.5" SATA HDD in the second power supply bay. Here are some step-by-step instructions on how to install 3.5" SATA HDD in the second power supply bay.

1. Place the PSU bay storage enclosure on a flat surface and remove the 3.5" SATA HDD tray.



2. Place the 3.5" SATA HDD tray on a flat surface and note the location of the pegs.



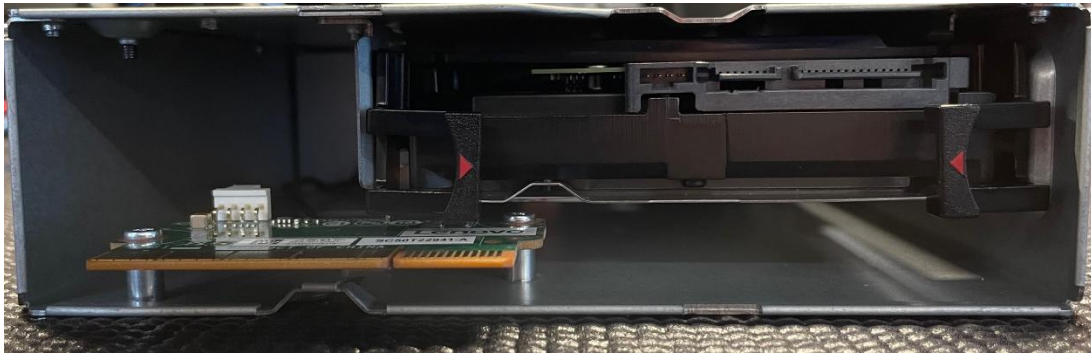
3. Install the 3.5" SATA HDD bottom down in the SATA HDD Tray with the signal and power connections on the same end as the tray handles as shown.



4. Slide the SATA HDD tray back into the PSU bay storage enclosure until it latches into place as shown below.



5. Here is what the end of the PSU bay storage enclosure should look like when the drive is fully installed.



6. Slide the PSU bay storage enclosure into the bottom PSU bay as shown below.



Section 5 – Appendix

The ThinkStation PX platform contains all new mechanical parts for different storage device options. Here are some pictures representing a few of these parts.

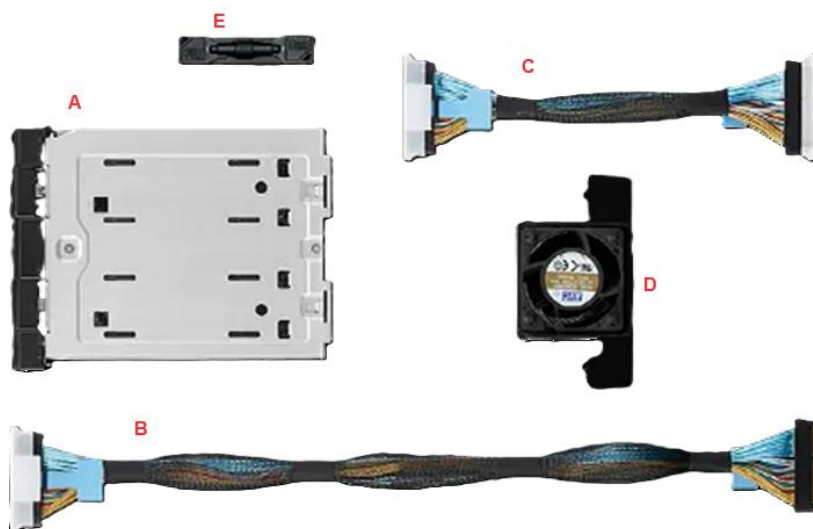
Option Kits

4XH0Q89603 - Intel VROC Key Module - Premium

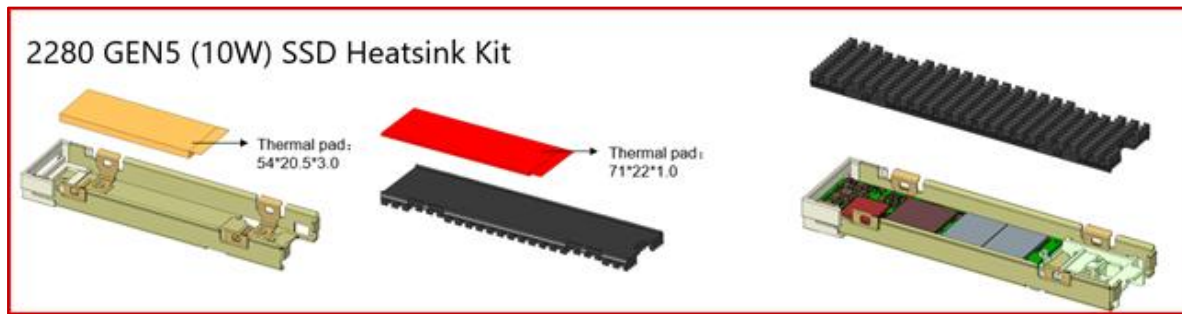


4XH1M64236 - ThinkStation Flex Bay Kit for M.2 SSD Enclosure

- (A) Front access bay Dual M.2 SSD enclosure
FRU: 5M11H28529
- (B) Motherboard NVME bay3 Gen5 cable, 370mm
FRU: 5C10U58351
- (C) Motherboard NVME bay2 Gen5 cable, 170mm
FRU: 5C10U58338
- (D) FAN 5038 - Storage bay FAN
FRU: 5M11H28534
- (E) Front Access bay, common key
FRU: 5M11H28532



4XH1S76260 – 2280 Gen 5 (10W) SSD Heatsink Kit



Field Replacement Unit (FRU)

5M11H28470 - Onboard M.2 Gen 4 Heatsink Assembly.



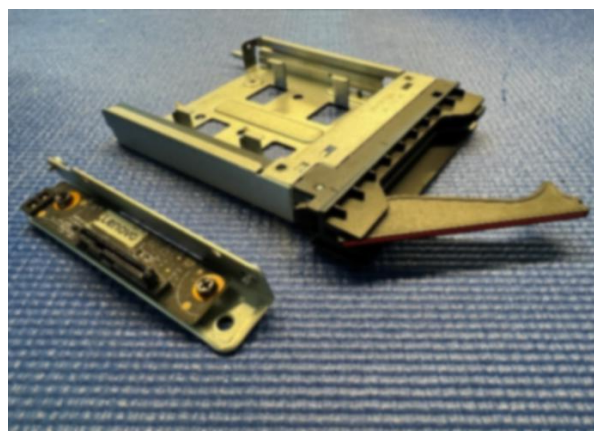
5M11N44167 – Onboard M.2 Gen 5 Heatsink Assembly.



5M11H28556 - Front Access Bay, 3.5" HDD Tray



5M11H28531 - Front access bay U.2/U.3 SSD enclosure



5C10U58338 - Motherboard NVME bay2 cable, 170mm

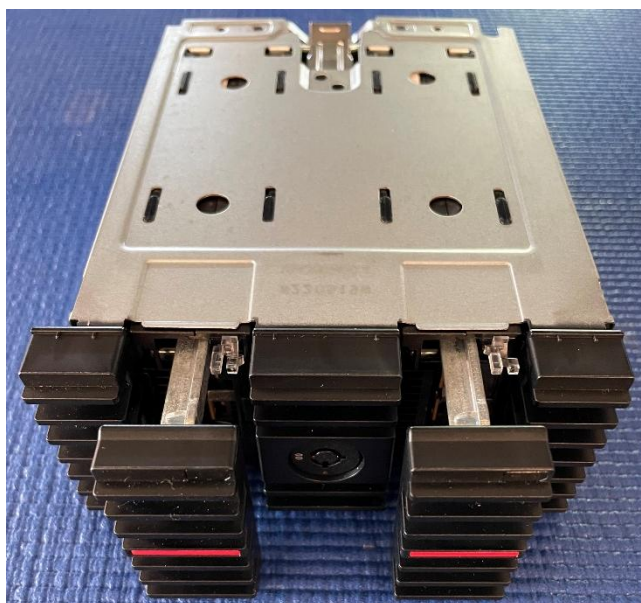
5C10U58351 - Motherboard NVME bay3 cable, 370mm



5M11H28534 - Storage Bay 5038 Fan



5M11H28529 - Dual M.2 SSD Enclosure



5M11H28527 - PSU Bay Storage Enclosure (4th HDD Bay)



5C10U58337 - SATA HDD Data & Power Cable (Required for 4th HDD Bay)



Revision History

| Version | Date | Author | Changes/Updates |
|---------|-----------|----------|----------------------------------|
| | | | |
| 1.2 | 3/20/2025 | Jason M. | Update for M.2 Gen 5 drives. |
| 1.1 | 5/8/2024 | Jason M. | Update for new product features. |
| 1.0 | 5/26/2023 | Jason M. | Initial launch release. |