SUGER



CX3701

15" DEEP 3U NAS CHASSIS
10 × 3.5" HOT-SWAP BAYS

ENGLISH

In this guide

This guide covers chassis access, component installation, and reassembly.

Choose your cooling configuration and check component clearances before starting assembly. Supported components may compete for the same space.

Before installation: Follow the installation instructions supplied with your motherboard, power supply, graphics card, and cooler.

Maintenance: Before opening a chassis that already has components installed, switch the system off and unplug it.

Fasteners: Tighten chassis fasteners by hand. Do not force a screw that does not thread correctly.

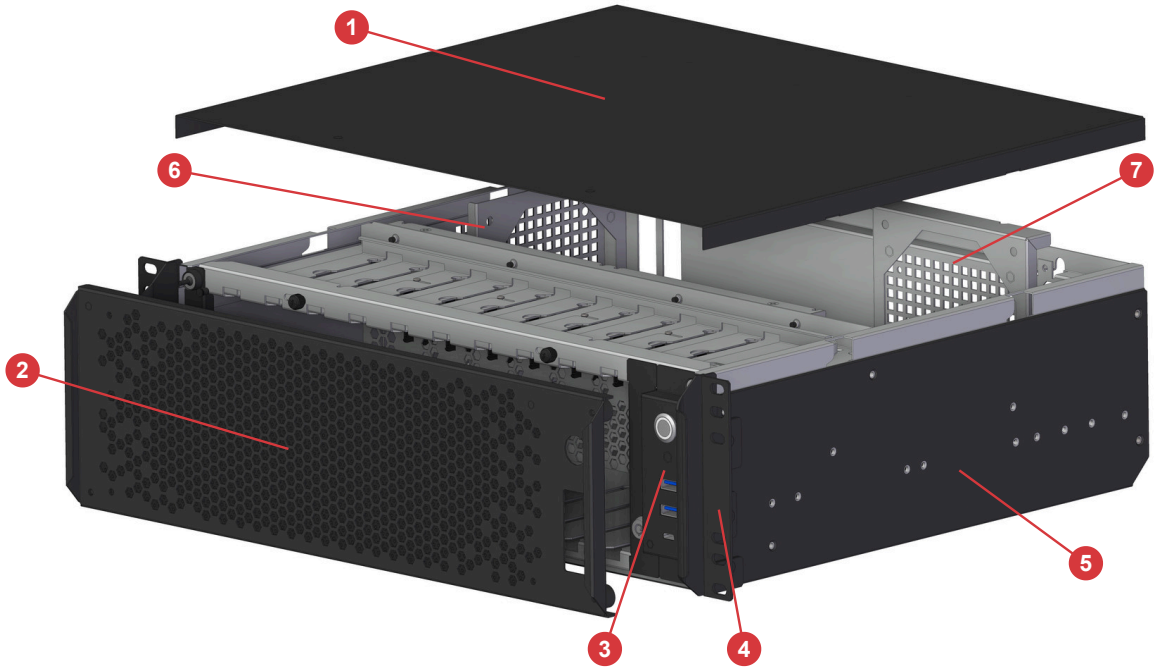
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Exploded assembly & part key

Assembly part key

No.	Part	Related procedure
1	Lid	Remove the lid (page 9)
2	Faceplate and dust filter	Remove the faceplate & filter (page 10)
3	Front I/O assembly	Front ports & connections (page 8)
4	Rack ear & pull handle	Install rack ears & handles (page 12)
5	Chassis wrap	Main chassis body
6	Side fan bracket	Install the side fan (page 13)
7	Rear fan bracket	Install the rear fan (page 14)

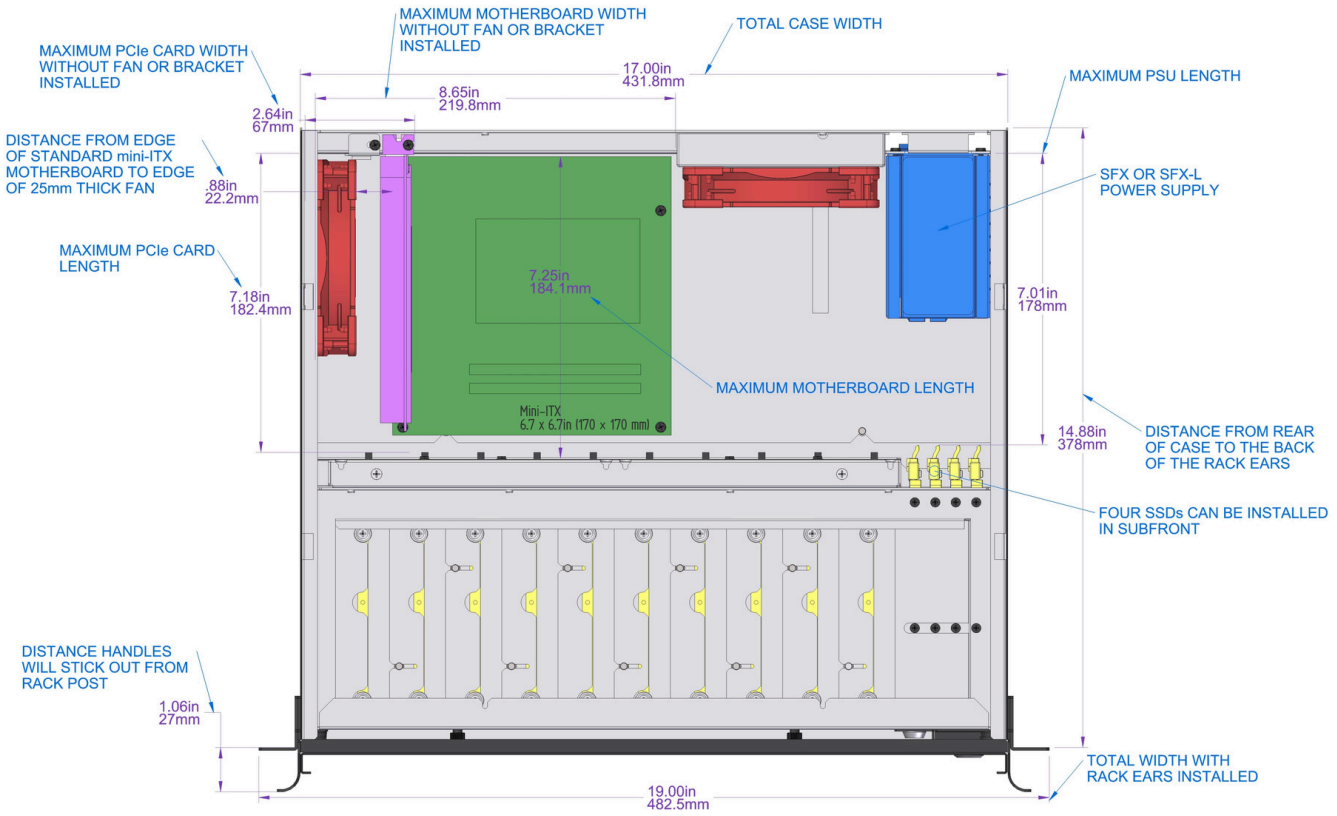
See the hardware-kit pages for the screw bag and rack hardware.



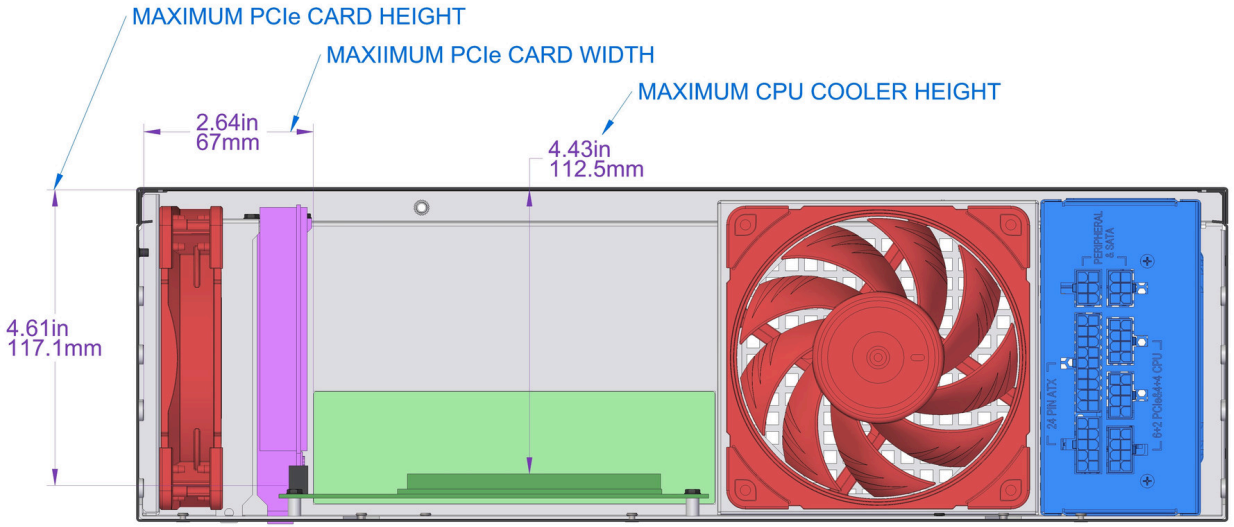
Clearance drawing — top view

The top-view drawing shows the motherboard tray, power supply, fan positions, the ten 3.5-inch hot-swap bays and the SSD mounting points behind the front I/O.

ⓘ Drawing dimensions are nominal. For compatibility, use the limits on the compatibility page.



Front-view component clearances



The front-view drawing illustrates expansion-card height, CPU-cooler height and the power supply position.

ⓘ Drawing dimensions are nominal. For compatibility, use the limits on the compatibility page.

Dimensions & compatibility

Component	Specification
Outer dimensions, D × W × H	381 × 431.8 × 132.59 mm (15 × 17 × 5.22 inches)
Rack size	3U · 19-inch rack
Power supply	SFX or SFX-L
Motherboard	Mini-ITX; mounts without standoffs
CPU air cooler	Up to 110 mm tall
Cooling	Two 120 mm fans, side vent and rear, up to 38 mm thick
Liquid cooling	One 92 mm AIO (Asetek 645LT) on a 3D-printed 120-to-92 mm adapter; not officially supported
Expansion	Two full-height PCIe slots; cards up to 182 mm long including the power connector and 115 mm tall
Front bays	Ten 3.5-inch SAS/SATA hot-swap bays behind the magnetic faceplate, with preinstalled SFF-8482 to SATA adapters
Storage	10 × 3.5-inch hot-swap and 4 × 2.5-inch (up to 7 mm, behind the front I/O) mounting locations

ⓘ SATA data cables are not included. Hot-swap support depends on the HBA or RAID card, motherboard and operating system; a SAS controller can run SATA drives, but a SATA controller cannot run SAS drives. A 2.5-to-3.5-inch converter bracket can mount SSDs in the front bays.

Hardware kit

Match the **letter and color** here to the references beside the installation illustrations and in each procedure. All rackmount chassis use screwbag **SBAG-HWKIT** (items A–F).

A 6-32 × 0.25-inch hex screws — 45 ×

Yellow-marked · Motherboard, PSU, HDDs, and PCIe accessories.



B M3 × 0.5 screws, 5 mm long — 10 ×

Red-marked · 2.5-inch SSDs and some 3.5-inch accessories.



C 6-32 hex standoffs — 20 ×

Teal in drawings; black, unpatched hardware · 0.125-inch and 0.25-inch lengths. Install in the motherboard tray.



D M3 screws (5 mm thread) — 16 ×

Blue-marked · 2.5-inch SSDs and some 3.5-inch accessories.



E 6-32 × 0.25-inch flat-head screws — 10 ×

Green-marked · Motherboard tray, subfront, internal brackets, and front I/O bracket.



F M4 × 7 mm screws — 7 ×

Pink-marked · Rack ears and pull handles.



G Slot covers — 8 ×

Cover unused PCIe slots.



H Rack ears — 1 pair

Secure the chassis to the rack.



I Pull handles — 1 pair

Optional handles make pulling the chassis from the rack easier.



ⓘ Items G–I are separate chassis/accessory items. Illustrations are not to scale. Fan and radiator fasteners are supplied with the cooling components.

NAS hardware kit

Hot-swap drive hardware is supplied in a separate kit, **CX-NAS-HWKIT** (items J–N), in addition to the chassis hardware kit (items A–I). Ten SAS/SATA adapters come preinstalled in the drive bays; SATA data cables are not included.

J HDD shoulder screws (217-735)

45 ×

Four per 3.5-inch HDD; they guide the drive into its hot-swap bay.



K Thumb screws (217-737)

2 ×

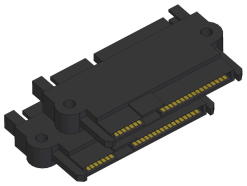
Secure the drive retention tray.



L SAS/SATA adapters

2 ×

Spare SFF-8482 to SATA adapters; ten are preinstalled in the drive bays.



M 5-way SATA power splitters

2 ×

One SATA power input to five drive connectors.



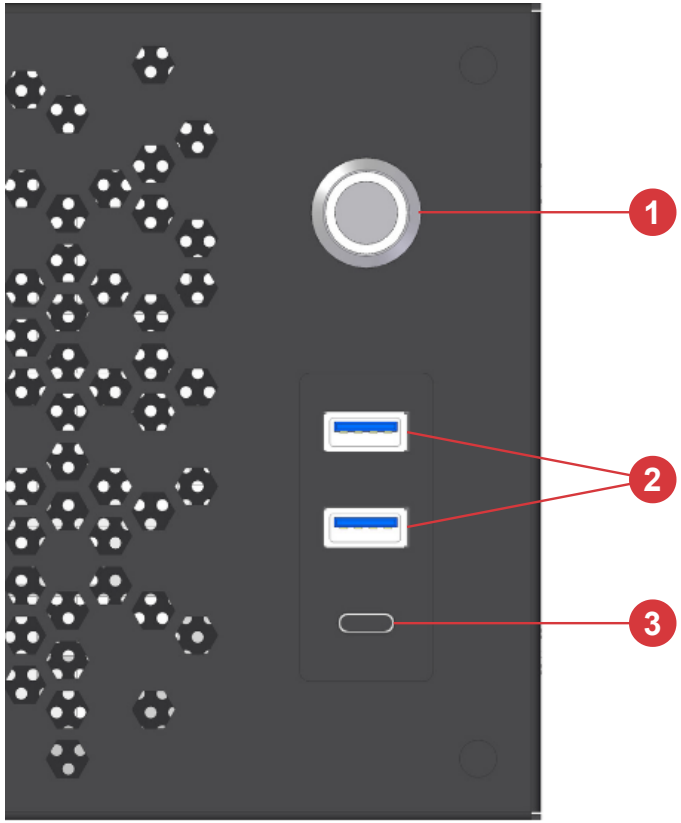
N Key pair

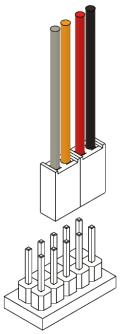
1 pair

Locks and unlocks the drive retention tray.

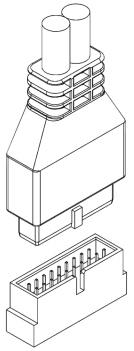


Front ports & connections

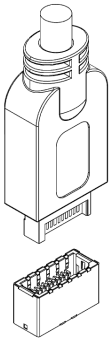




Power switch & status light



USB Type-A ports



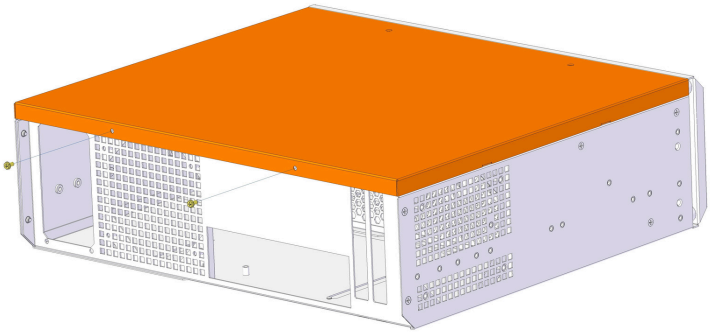
USB Type-C port

No.	Port / connection
1	**Power switch & status light** 16 mm momentary switch with status light. Connect switch and LED leads to the front-panel header; observe the motherboard's LED polarity markings.
2	**USB Type-A ports** Two USB 3.0 Type-A ports, connected through the keyed internal USB cable shown.
3	**USB Type-C port** One USB 3.2 Type-C 10 Gbps port, connected through the internal Type-E cable shown. Requires a matching motherboard header.

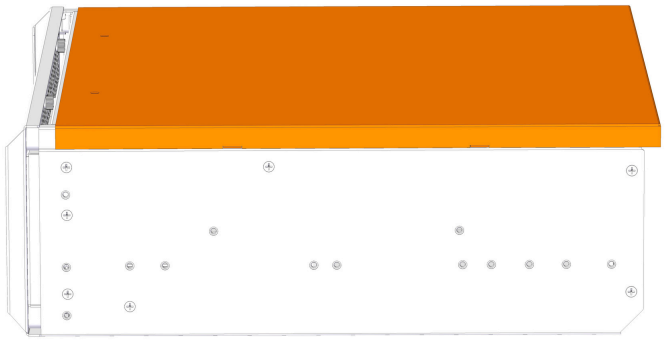
ⓘ Use your motherboard manual to identify matching headers and pin assignments. The numbered front-panel locations correspond to the connector drawings and legend.

Remove the lid

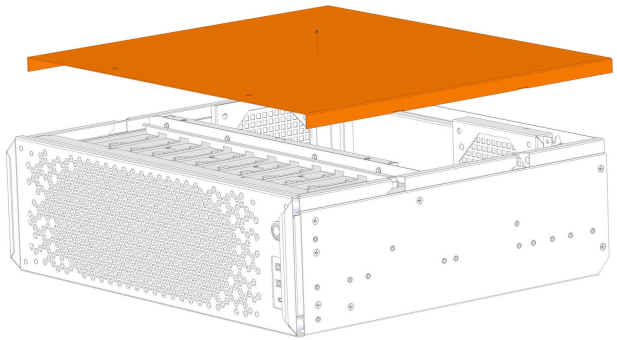
1



2



3



A Yellow

1. Remove the screws

Remove the two yellow-patched 6-32 screws **(A)** along the upper rear edge that secure the lid to the motherboard tray.

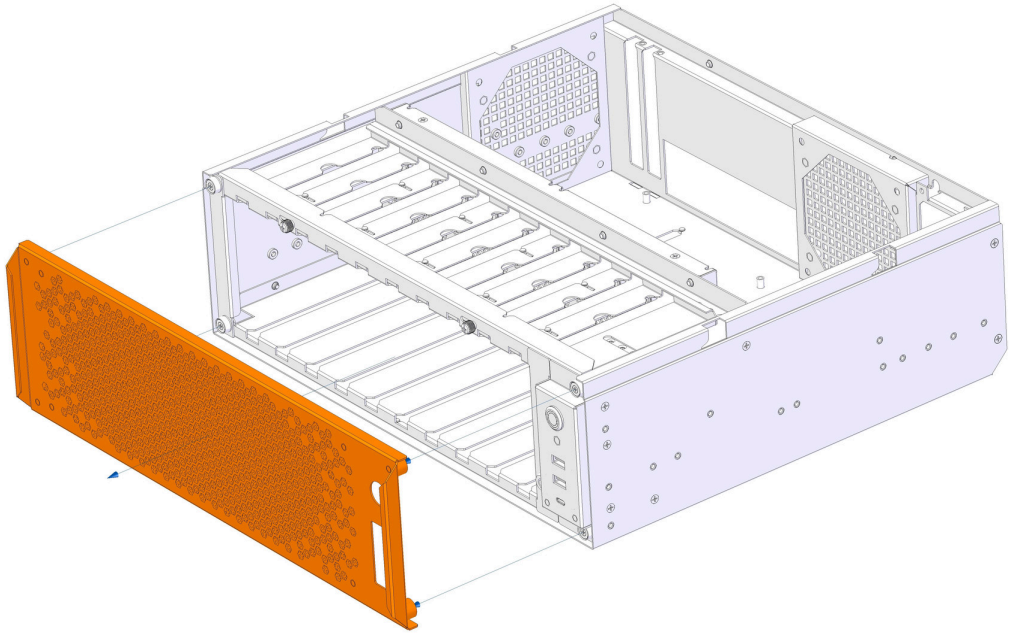
2. Slide the lid back

Push the lid toward the rear of the chassis.

3. Lift the lid away

Check that the lid flanges have cleared the chassis slots. Lift the lid up and away.

Remove the faceplate & filter



1. Release the left side

Pull on the left-side handle of the faceplate until its locating pins disengage, approximately ½ inch.

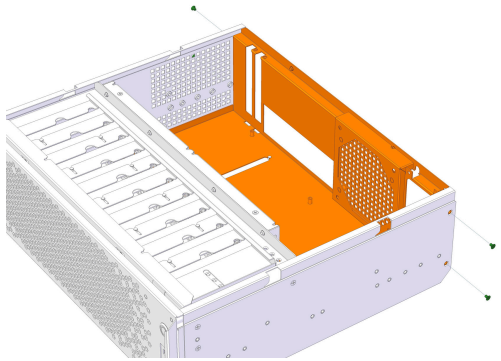
2. Release the right side

Gently pull the right side outward to remove the faceplate and dust filter.

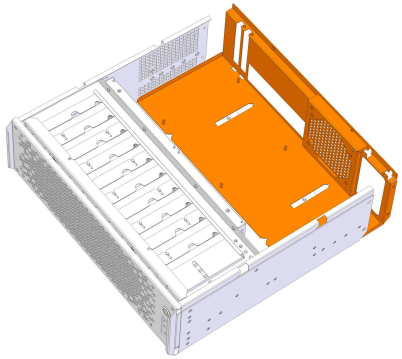
Keep the faceplate and filter aside while installing front fans or a radiator.

Remove the motherboard tray

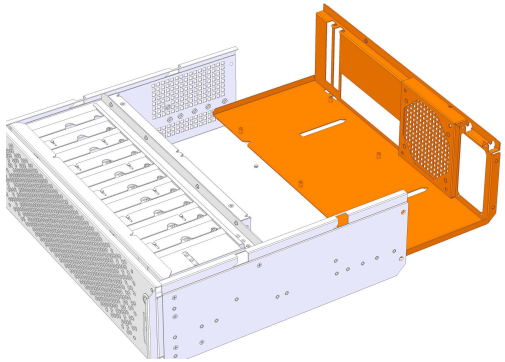
1



2



3



E Green

ⓘ Removing the tray is optional, but can make component installation easier.

1. Remove the tray screws

Remove the four green-patched 6-32 screws (E) securing the tray's rear panel to the chassis, two on each side.

2. Slide the tray back

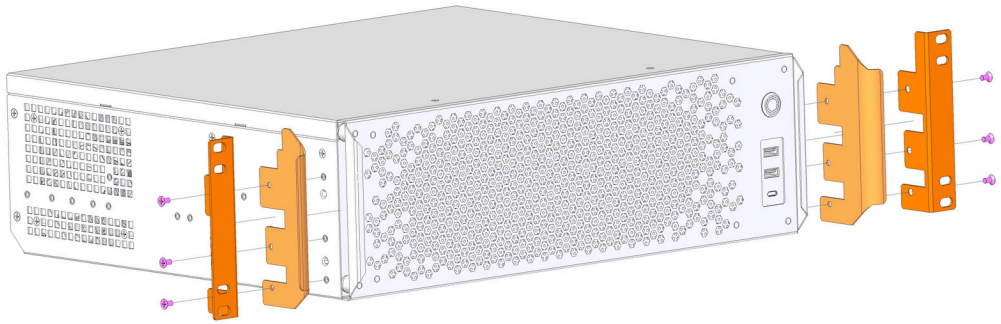
Move the tray toward the rear until all six round metal tabs disengage from the tray.

3. Lift the tray out

Lift only after the tray has cleared the tabs. Do not force it upward while it remains engaged.

Install rack ears & handles

F Pink | H | I



1. Align the hardware

If using pull handles, stack the rack ears (H) over the pull handles (I) with the handle facing away from the faceplate.

Rack ears can also be installed without handles.

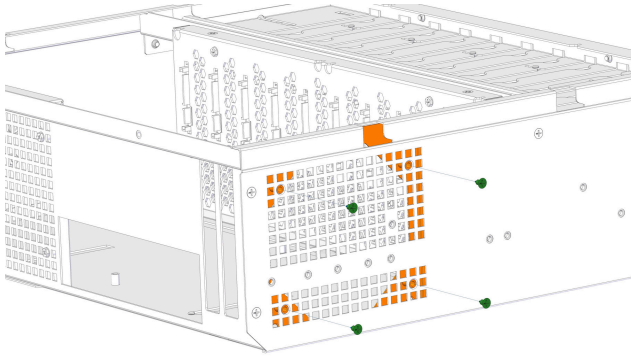
2. Secure both sides

Install 6 pink-marked M4 × 7 mm screws (F) in total, 3 on each side, through the rack ears and handles into the chassis. Tighten by hand.

ⓘ Rack-slide installation depends on the rail kit. Follow the instructions supplied with the selected kit.

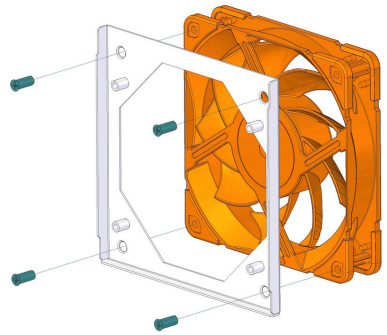
Install the side fan

1

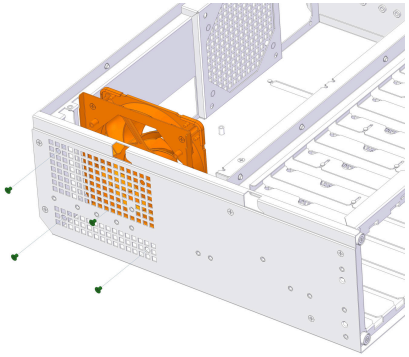


E Green

2



3



E Green

The side vent has mounting for one 120 mm fan up to 38 mm thick, on a removable bracket.

1. Remove the side fan bracket

Remove the green-patched 6-32 screws (E) securing the side fan bracket and lift the bracket out.

2. Mount the fan on the bracket

Secure the fan to the bracket with the self-tapping screws supplied with the fan.

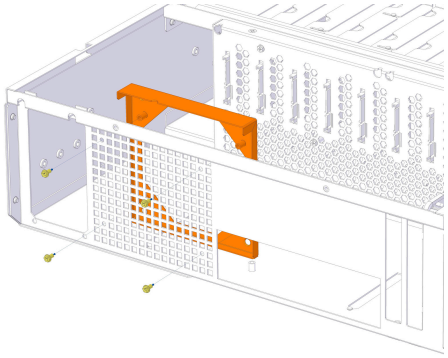
3. Refit the bracket

Refit the bracket and secure it with its green-patched 6-32 screws (E).

ⓘ With a dual-slot PCIe card such as a GPU, the side vent fan must be a slim (15 mm thick) 120 mm fan.

Install the rear fan

1



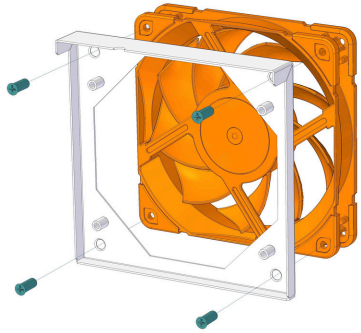
A Yellow

The rear has mounting for one 120 mm fan up to 38 mm thick, on a removable bracket.

1. Remove the rear fan bracket

Remove the yellow-patched 6-32 screws **(A)** securing the rear fan bracket and lift the bracket out.

2



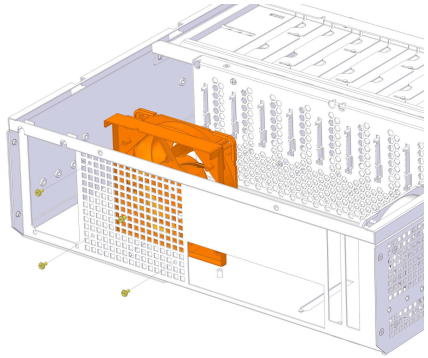
2. Mount the fan on the bracket

Secure the fan to the bracket with the self-tapping screws supplied with the fan.

3. Refit the bracket

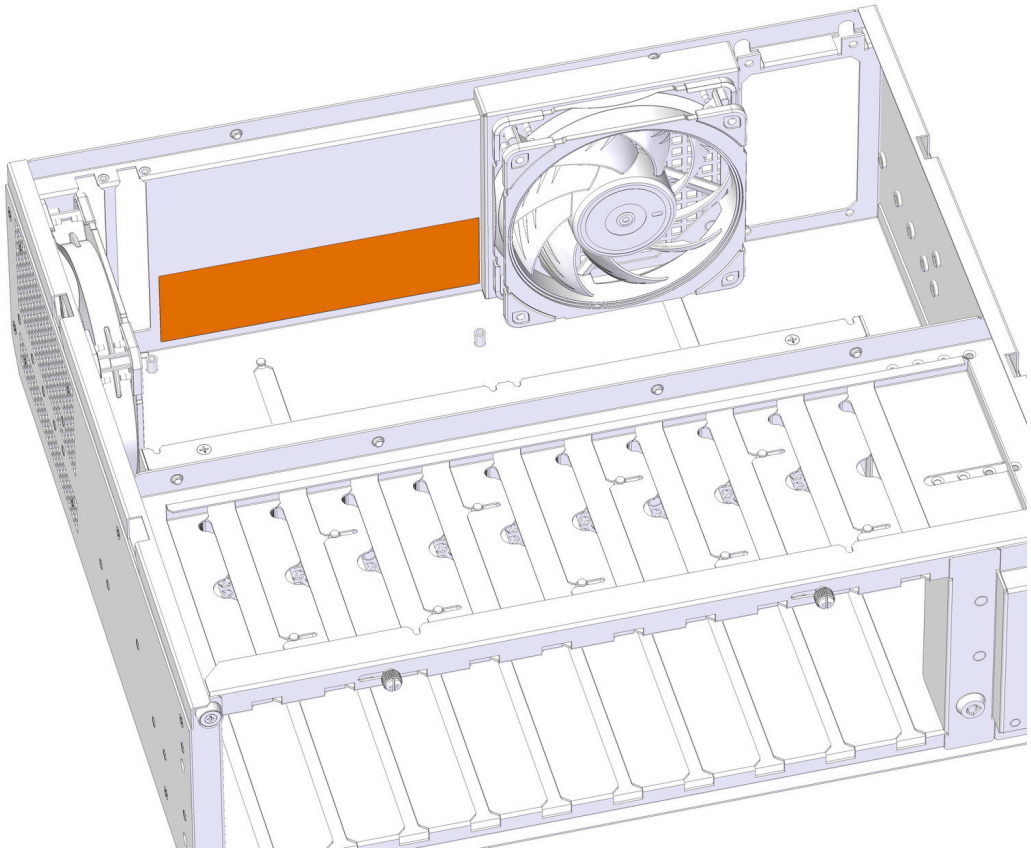
Refit the bracket and secure it with its yellow-patched 6-32 screws **(A)**.

3



A Yellow

Prepare the motherboard tray



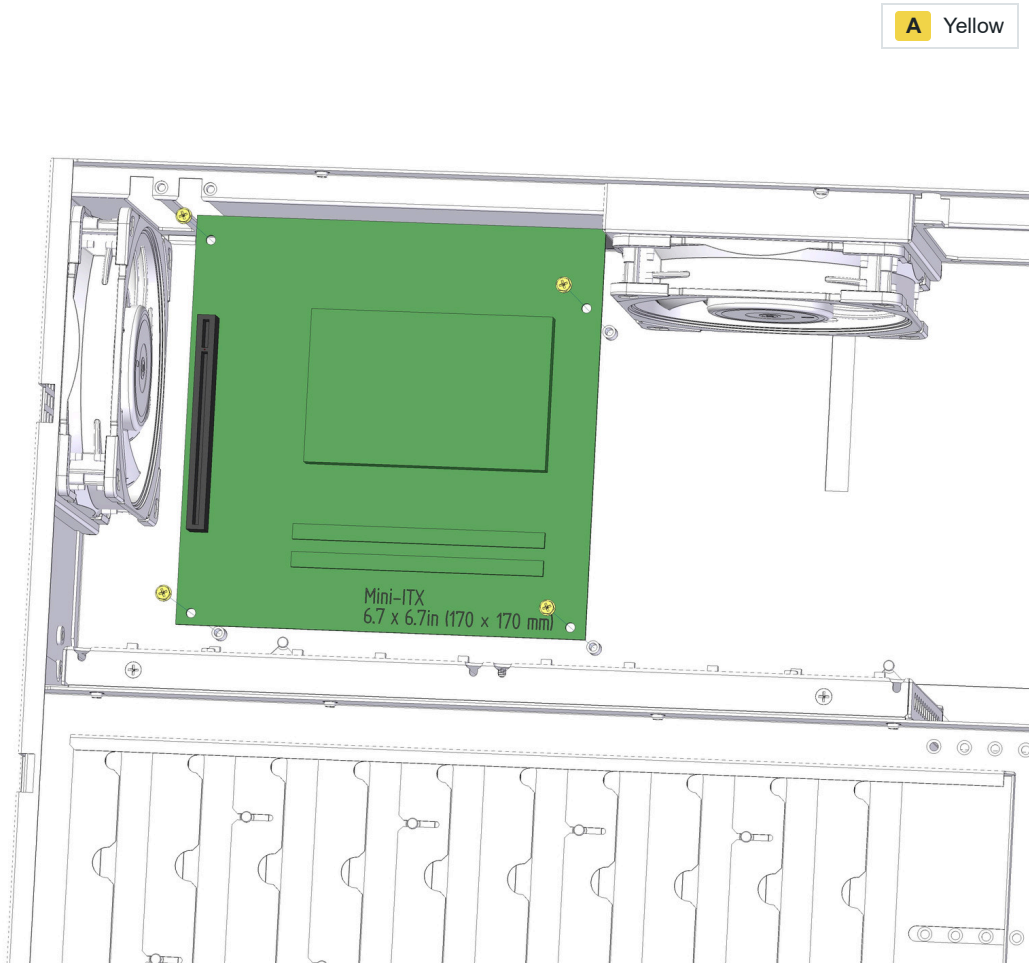
This chassis uses no motherboard standoffs: the board mounts directly to the threaded mounting points on the tray.

1. Install the I/O shield

If your motherboard has a separate I/O shield, orient it to match the motherboard ports and press it into the rectangular opening in the tray's rear panel.

ⓘ Skip this step if the I/O shield is integrated into the motherboard.

Install the motherboard



1. Lower the motherboard

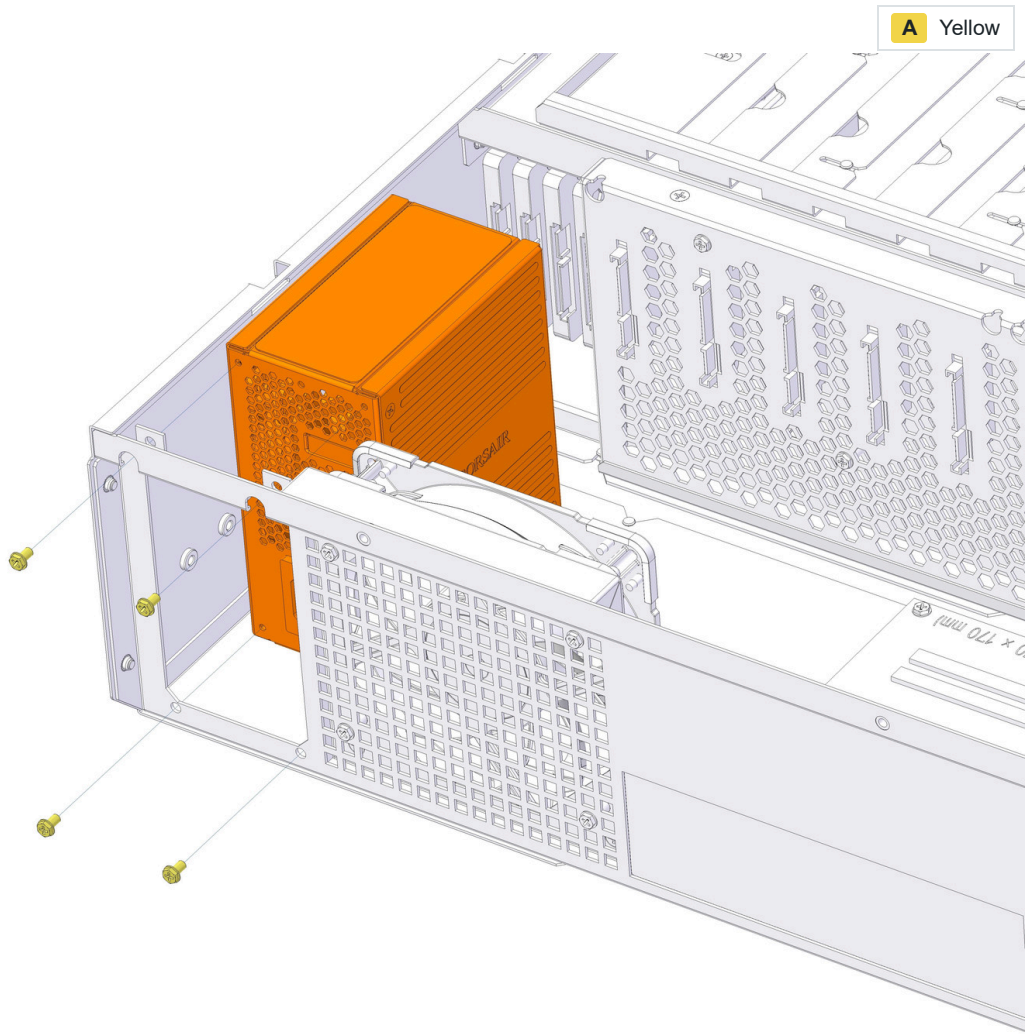
Place the motherboard onto the tray's mounting points. Align its rear ports with the I/O opening and its mounting holes with the threaded mounting points.

2. Secure the board

Install yellow-patched 6-32 screws **(A)** through the board into the mounting points. Tighten by hand to avoid damaging the board.

Follow your motherboard's instructions for CPU, memory, M.2 drives, and cable connections.

Install the power supply



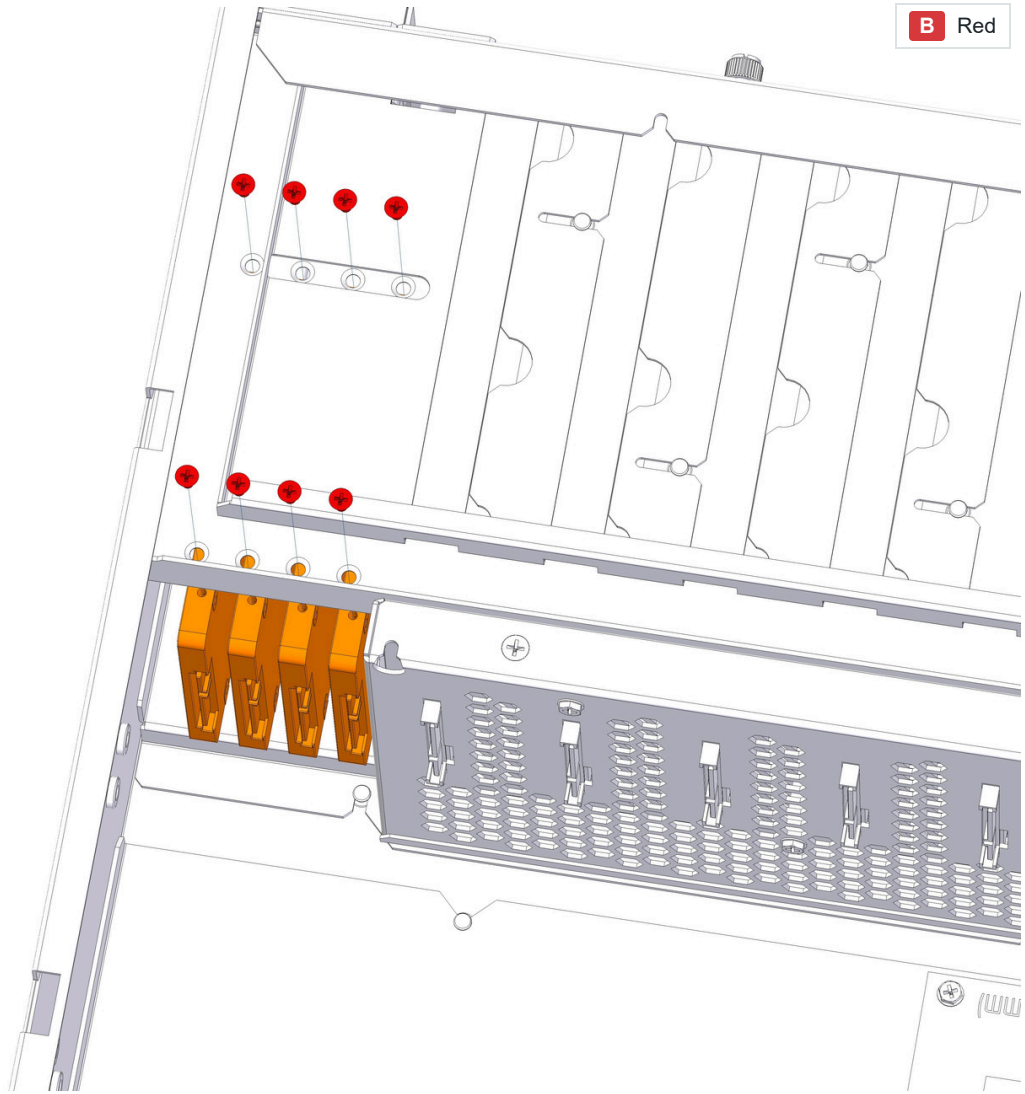
1. Position the PSU

Place the SFX or SFX-L power supply into its mounting location. Check the PSU manufacturer's instructions for fan orientation and intake clearance.

2. Secure the PSU

Install yellow-patched 6-32 screws **(A)** through the chassis into the power supply. Tighten by hand and route the cables clear of the drive bays and fans.

Install 2.5-inch SSDs



Four 2.5-inch SSD mounting points, for drives up to 7 mm thick, are located behind the power button and front USB area.

1. Position the SSDs

Align each SSD with its mounting points behind the front I/O.

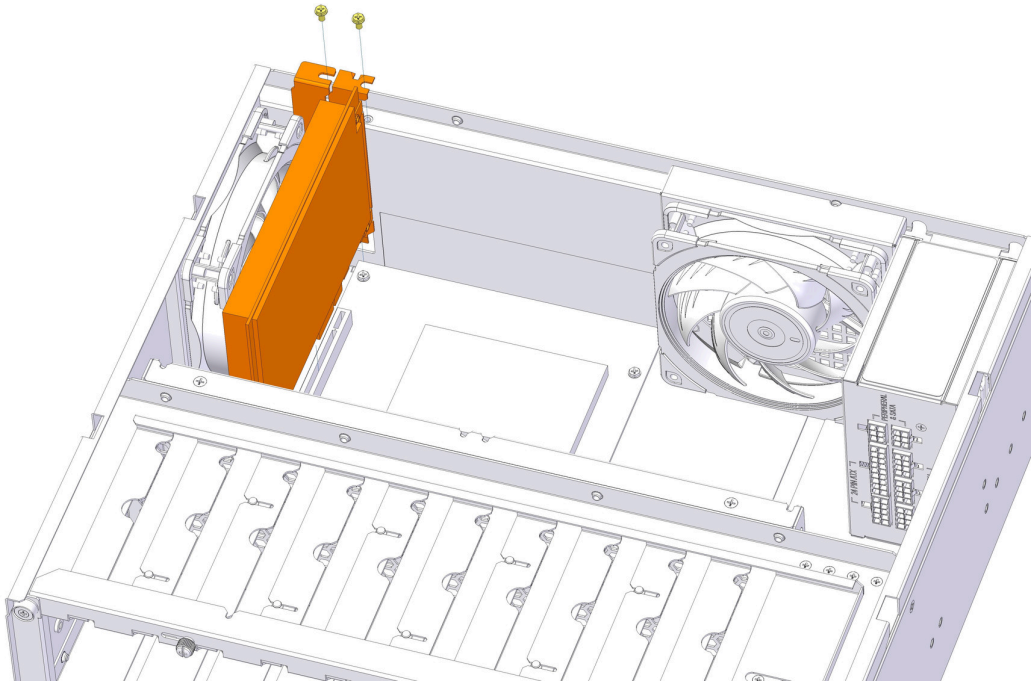
2. Secure the drives

Secure each drive with two red-patched M3 × 0.5 screws, 5 mm long (B). Route the cables clear of the fans and drive bays.

ⓘ For M.2 storage, follow the motherboard's installation instructions.

Install a GPU or PCIe card

A Yellow G



1. Prepare the slot

Select the PCIe slot specified by your motherboard manual. Remove the corresponding chassis slot covers and open the motherboard slot latch, if present.

2. Seat the card

Align the card with the motherboard slot and rear bracket opening. Lower it carefully and apply gentle, even pressure until fully seated.

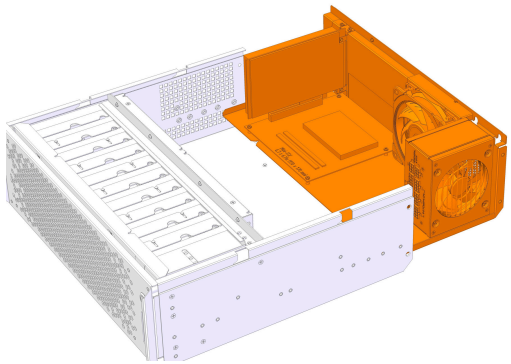
3. Secure the bracket

Fasten the card's mounting bracket to the tray with yellow-patched 6-32 screws **(A)**. Fit slot covers **(G)** over unused openings and secure them with yellow-patched 6-32 screws **(A)**.

ⓘ Cards up to 182 mm long, including the power connector, and 115 mm tall. Leave clearance for 12-pin 12VHPWR / CEM5 power connectors. With a dual-slot card, the side vent fan must be a slim (15 mm thick) 120 mm fan.

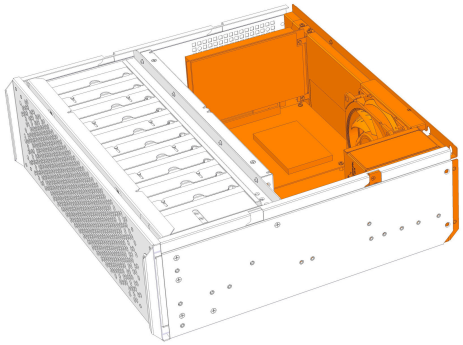
Reinstall the motherboard tray

1

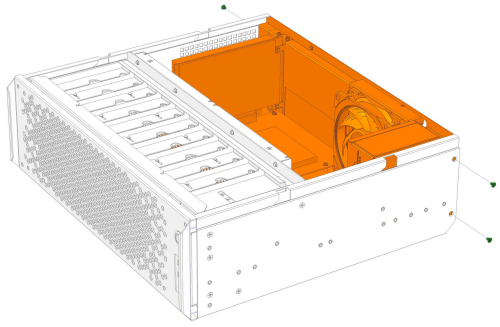


E Green

2



3



E Green

1. Place and slide the tray

Lower the assembled tray into the chassis and slide it forward. Lift gently as needed to prevent its front edge catching on the chassis tabs.

2. Engage all six tabs

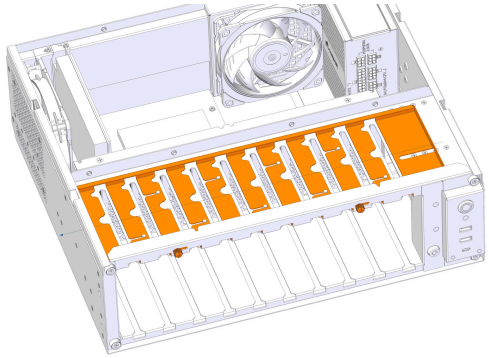
Continue forward until all six tabs are seated in the tray and its rear panel sits flush against the chassis rear.

3. Secure the tray

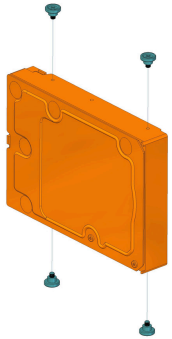
Install four green-patched 6-32 screws (E), two on each side, through the chassis into the tray. Tighten by hand.

Install 3.5-inch hard drives

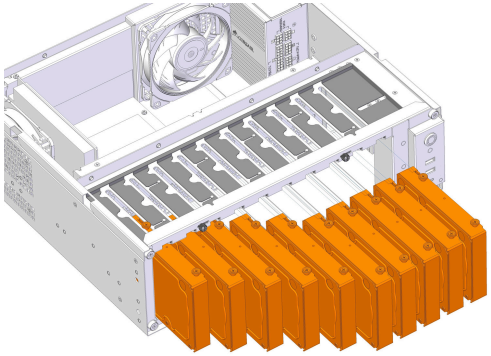
1



2



3



N

J

The ten 3.5-inch hot-swap bays are behind the magnetic faceplate. Each bay connects through a preinstalled SFF-8482 SAS/SATA to SATA adapter.

1. Open the drive bays

Unlock the drive retention tray with the key (N) and slide the tray back.

2. Fit the shoulder screws

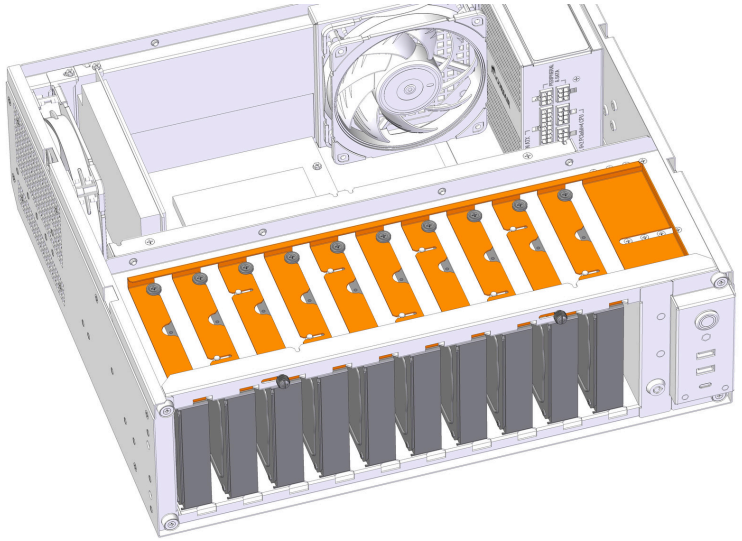
Install four shoulder screws (J) in the side mounting holes of each 3.5-inch HDD.

3. Insert the drives

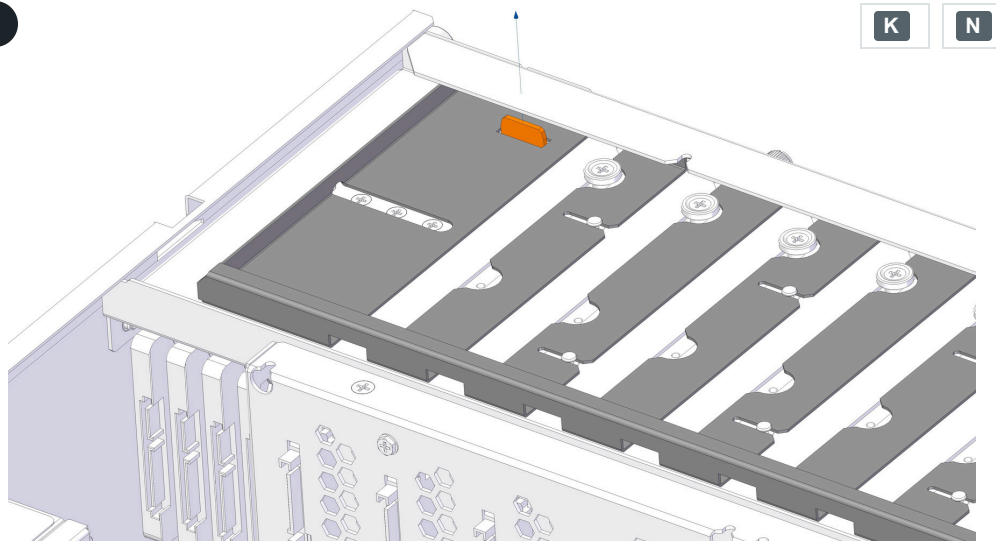
Slide each drive into a bay, guiding the shoulder screws through the slots, until it seats in the adapter.

Lock the drives & connect cables

1



2



1. Close the retention tray

Slide the drive retention tray forward over the installed drives.

2. Lock the tray

Secure the tray with the thumb screws (K) and lock it with the key (N).

Connect the drives

Connect SATA data cables (not included) to the adapters inside the chassis, and power them with the SATA power splitters (M).

ⓘ Hot-swap support depends on the HBA or RAID card, motherboard and operating system. A SAS controller can run SATA drives; a SATA controller cannot run SAS drives.

Route cables & close the chassis

1. Route and secure cables

Route front-panel, PCIe, power, and fan cables along the chassis side walls. Bundle excess slack behind the PSU and secure it with ties.

Keep all cables clear of fan blades, the drive-bay adapters, and the tray's engagement points. Release ties that anchor cables to the fixed chassis before removing the tray.

2. Close the chassis

Refit the filter and faceplate, aligning their locating pins. Align the lid flanges with the chassis slots, lower the lid, and slide it forward. Secure the lid with its two yellow-patched 6-32 screws **(A)**.

Warranty & support

WARRANTY POLICY

Sliger Designs LLC ("Sliger") warrants its Products, if properly used and installed, against defects in material and workmanship for the period stated on the product specifications. Under normal use and service, every hardware portion of the products will be free from physical defects in material and workmanship during the warranty period (excludes normal wear and tear), or the product will be repaired or replaced as determined solely by Sliger.

For full warranty and RMA policy visit :
https://www.sliger.com/support/warranty_and_rma/

SUPPORT AND SERVICE

If you have any questions or problems with the Sliger product you purchased, please don't hesitate to contact us via email or phone. Please include a detailed explanation of your problem and your order number.

For comments and suggestions, you can e-mail our design team, orders@sliger.com.

Lastly we would like to thank you for your support by purchasing this product.

For more information about Sliger Designs, please visit us online.

Website: sliger.com
Support Email: orders@sliger.com
Phone Number: 1 775 356 5595
Hours of Operation: 8a - 4:30p MST

Regulations

To the best of our knowledge, all computer chassis manufactured by Sliger Designs, LLC adhere to ROHS, REACH, and Conflict Minerals regulations. All Sliger products are produced in the United States of America and primarily utilize materials sourced domestically.

ROHS STATEMENT

This product is compliant to implemented RoHS (Restriction of Hazardous Substances) type regulations worldwide, including but not limited to China, India, Japan, Korea and European Union.

REACH STATEMENT

REACH (Registration, Evaluation, Authorization and Restriction of Chemicals, EC 1907/2006) is the European Union's (EU) chemical substances regulatory framework. REACH requires Sliger Designs, LLC to provide customers with sufficient information on Substances of Very High Concern (SVHC) contained in products in concentration above 0.1% weight by weight (w/w) to allow safe use of the product.

Certificates of Compliance are available upon request.

Manual revision history

Version	Date	Changes
v1.0	2026-11-18	Initial release