

Add-on/Spare DIMM Instructions

This document describes how to either add an additional DIMM (Dual In-line Memory Module) to or remove and replace an existing DIMM from either a SnapServer 2U appliance or SnapScale X2 node from Overland Storage.

WARNING: To reduce the risk of electric shock or damage to equipment, always remove any power cords while working with the unit.

WARNUNG: Um das Risiko eines elektrischen Schlags oder Schäden am Gerät zu vermeiden, ziehen Sie stets den Netzstecker, bevor Sie an der Einheit arbeiten.

AVERTISSEMENT: Pour réduire le risque de choc électrique ou endommagement de l'équipement, retirez toujours les cordons électriques en travaillant avec l'appareil.

CAUTION: While working with the unit, observe standard Electrostatic Discharge (ESD) precautions to prevent damage to micro-circuitry or static-sensitive devices.



CAUTION: Verify that the new DIMM matches the installed DIMMs exactly (same size and speed).

IMPORTANT: Using DIMMs that are not supplied by Overland Storage will void your warranty. Overland Storage DIMMs have been tested and verified to operate properly with Overland appliances. Failure to use qualified DIMMs may impact data availability or lead to data loss.

Prepare the Unit

Power Off and Disconnect

If the unit is still running, power it down cleanly:

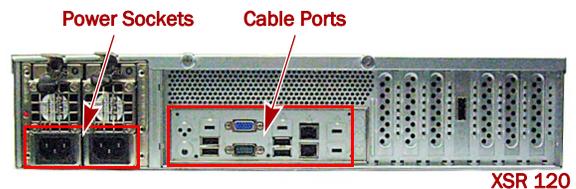
- Power off the **server/cluster**:
 - SnapServer:** Use the Web Management Interface to shut down the server (**Maintenance > Reboot and Shutdown > Shutdown**).
 - SnapScale:** There are two power-off options available.
 - Shut off the **entire cluster** by using the Web Management Interface:

Maintenance > Shutdown/Restart > Shutdown

This is the recommended option. By shutting down the entire cluster, no peer sets will need to be rebuilt when it is reactivated. However, the cluster will be offline and unavailable during the repairs.
 - Shut off just the **affected node** by briefly pressing the **Power button** on a node.

By shutting down only the node, the cluster remains online and active. However, some peer sets will be operating with either less (3x replication) or no (2x replication) redundancy while the node is down and afterwards when the peer sets are being rebuilt.

- When all the LEDs are off, disconnect the **power cords**.
- Disconnect the remaining **cables** from the unit, noting their locations.



Remove the Front Bezel

1. Carefully take hold of the front **bezel** and pull it straight out from the appliance until the magnets release.
2. Set the bezel aside on a **secure surface**.



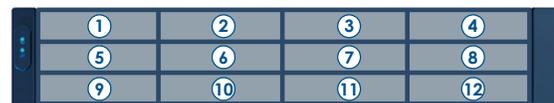
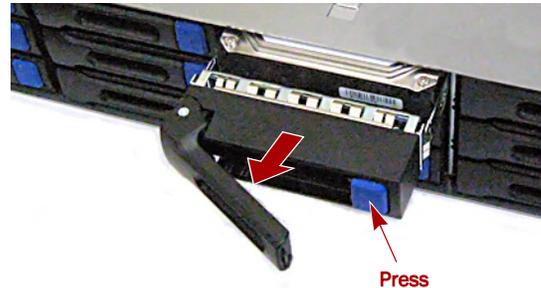
Remove the Drives

IMPORTANT: Overland recommends that you remove the disk drives to reduce the unit's weight prior to removal.

Remove **all** the drive carriers. For SnapScale, note from which bay they were removed. Blank carriers can remain in the bays.

NOTE: Do not remove the disk drives from their carriers. Doing so voids the drive warranty.

1. Press the release **button** on the right side of the carrier.
2. Using the built-in **handle**, pull the carrier out.
3. For SnapScale, **number the carrier** and set it on a secure surface.
4. Repeat [Steps 1–3](#) for **all** the remaining drive carriers.



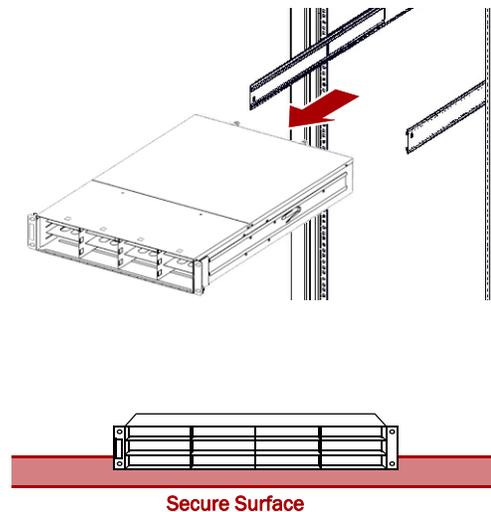
Remove Unit from Rack

WARNING: It is recommended that a mechanical lifter (or at least two people) be used during rack installation or removal to prevent injury.

WARNUNG: Um Verletzungen zu vermeiden, empfehlen wir zur Rack-Installation oder -Deinstallation die Nutzung einer mechanischen Hebehilfe (oder mindestens zwei Personen).

AVERTISSEMENT: Pour éviter toute blessure il est recommandé qu'un monte-charge (ou deux personnes au moins) soit utilisé lors de l'installation ou de l'enlèvement du support.

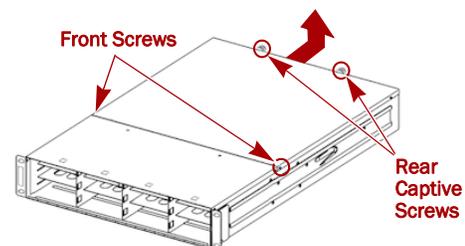
1. Remove and retain the **four screws** securing the unit to the rack.
2. With a lifter positioned in front of the array, release the rail locks and slide the **chassis** out onto the lifter.
3. Move the chassis onto a **secure surface**.



Install DIMMs

Remove Top Panel

1. Remove and retain the **two screws** located at the front edge of the panel.
2. Loosen the **two captive screws** securing the panel rear.
3. Slide the panel toward the rear about **one-half inch** (1.25cm), lift it off, and set aside.



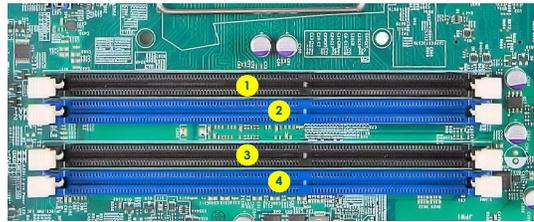
DIMM Configurations

IMPORTANT: Installing DIMMs out of order may result in the unit not recognizing the extra memory.

DIMMs must all be the **same size and speed** and be installed in the slots in the **this order**:

Slots **1 – 3 then 2 – 4** (black slots then blue slots).

NOTE: Some units may have the slot colors reversed. Always install DIMMs in slots 1 and 3 first, followed by slots 2 and 4.



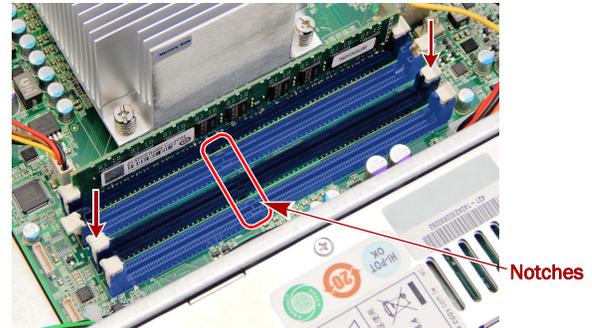
NOTE: SnapServer 2U appliances come with a single DIMM installed in slot 1, while SnapScale X2 nodes come with two DIMMs installed in slots 1 and 3.

Adding DIMMs

NOTE: If you are only replacing an existing DIMM, skip to the next section, “Replace a DIMM.”

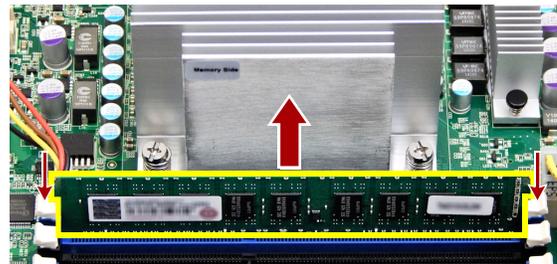
1. At the next available DIMM slot (refer to “[DIMM Configurations](#)”), press both **latches** down to open it.
2. Position the **DIMM** in the slot, lining up the DIMM notch with the guide in the slot.
3. Firmly press the **DIMM** down until the latches lock.
4. Repeat [Steps 1–3](#) for any **additional DIMMs**.

Continue with “[Reinstall Top Panel](#).”



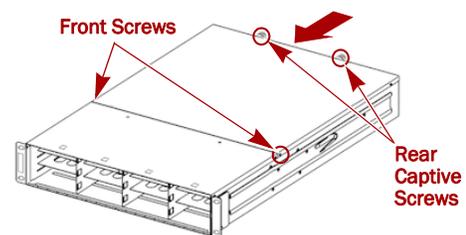
Replace a DIMM

1. Remove the old DIMM by pressing the **latches** on each end and popping the DIMM out.
Set the DIMM aside on an ESD-safe surface.
2. Position the new DIMM in the **same slot**, lining up the DIMM notch with the guide in the slot.
3. Firmly press the **DIMM** down until the **latches** lock it in place.



Reinstall Top Panel

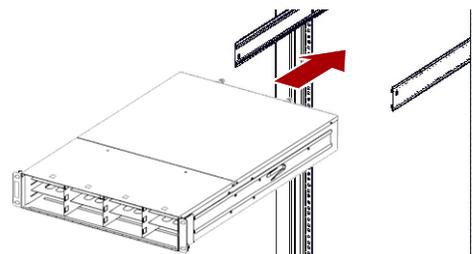
1. Position the top panel with no more than **one-half inch** (1.25cm) extending out over the rear of the unit.
2. Slide the panel **forward** until it is fully seated.
3. Using the **two captive screws**, secure the panel rear.
4. Using the **two retained screws**, secure the panel front.



Reassemble the Unit

Return Chassis to Rack

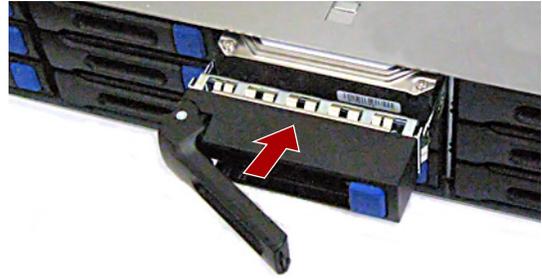
1. Slide out the **middle rails** from the rack.
2. Using the mechanical lifter, position the **chassis** in front of the rack.
3. Insert the **inner rails** into the **middle rails** and slide the unit into the rack.
4. Using the **four retained screws**, secure the unit.



Reinstall Drives

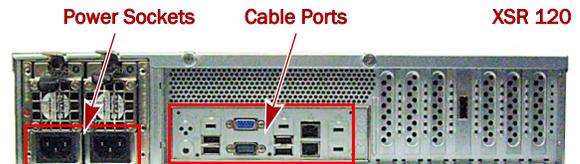
1. Position a **drive assembly** in front of its empty **bay**.
For SnapScale, they must be returned to the bay they were removed from. Refer to the number on the assembly.
2. Slide the assembly in until the **latch** clicks, securing it.
3. Repeat [Steps 1–2](#) for **all** remaining drive carriers.

 **IMPORTANT:** To maintain proper airflow and cooling, a drive assembly or a blank carrier must be installed in every bay. No empty bays are allowed.



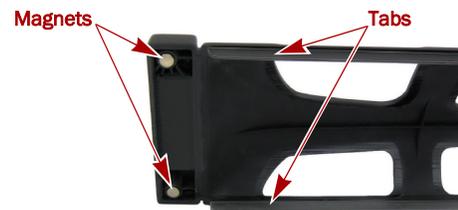
Reattach Cables and Power Cords

1. Reattach all **cables** to the same connections as before.
2. Attach the **power cords**.
3. At the front of the unit, press the **power switch** for less than a second to power the unit ON.



Reattach the Bezel

1. Position the **bezel** with the tabs aligned **inside** the top and bottom edges of the chassis.
2. Move bezel toward the unit until the **magnets** connect.
3. Verify that the bezel is **aligned** properly, all the LEDs are visible, and the Power panel is centered in the left flange.



Verify Memory

1. In the Web Management Interface, go to **Monitor > System Status**.
2. Verify the **Memory** amount is correct.
The usual DIMM memory GB rounding variations apply.
If necessary, click **Refresh** to display the current settings.
3. Click **Close**.



Return Replaced Parts to Overland

1. Place the **replaced part** in the anti-static bag and put it in the replacement part's box.
2. Use an RMA to return the part to **Overland Storage**.
For return shipping details and RMA number, go to: <http://docs.overlandstorage.com/return-instructions>

