



Replacing a Controller Module in a 5U Enclosure

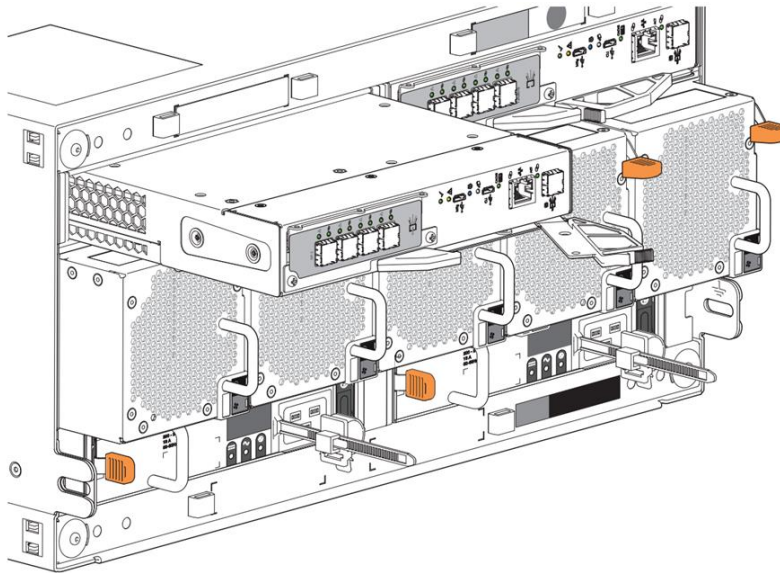
SEAGATE

Exos X 4006 Series and AP Integrated Storage Servers

This document contains the steps in replacing a controller module for a 5U enclosure. More detailed information is found in the Hardware Maintenance and Installation Guide (HMIG) for the Exos X 4006 Series storage systems and AP Integrated Storage Servers. You can find the documents located at <https://www.seagate.com/support/data-storage-systems>.

1. Complete the following actions to remove the faulty CM :

- a. Facing the rear of the storage enclosure, carefully remove all CM connections.
- b. Grasp the CM release latch between thumb and forefinger, then squeeze together to release the latch and handle.

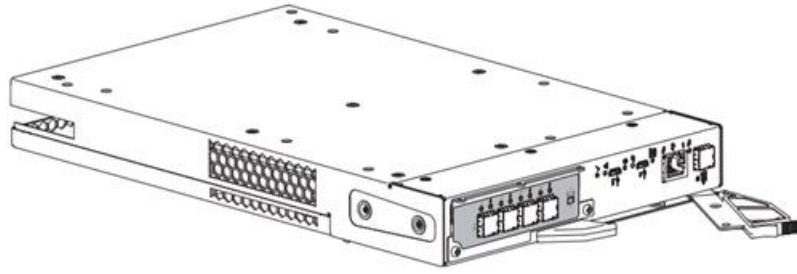


Controller module removal, left (SAS 4-port version)

- c. Pull the handle outward to lever the CM away from the midplane.
- d. Use one hand to support the weight of the CM and the other to gently withdraw the CM from its slot.
- e. Place it in a static-protected location.

2. Complete the following actions to replace it with a tested good CM:

- a. Examine the tested good CM to make sure it is undamaged with pins that are straight, not bent.



Replacement controller module (SAS 4-port version)

- b. Facing the rear of the storage enclosure, orient the CM with the open latch identically to the one you removed.
 - c. Use one hand to support the weight of the CM and the other to guide it into the empty CM slot.
 - d. Exerting even pressure to the center, gently press it against the midplane until the latch closes and locks in place.
- 3. After verifying the connectors are all undamaged, reconnect all cables as they were connected before.**
- 4. Verify that the Hardware normal LED is lit green on the replaced CM after properly inserting and seating it in the empty slot.**
- 5. Facing the front of the storage enclosure, verify that the Power-On LED is green and there are no fault conditions.**