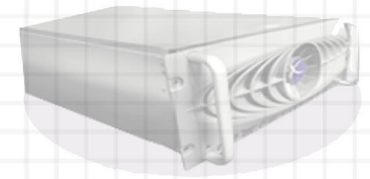
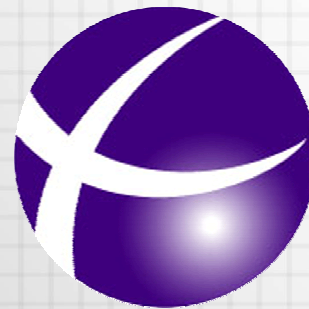




Controller Redundancy Modes



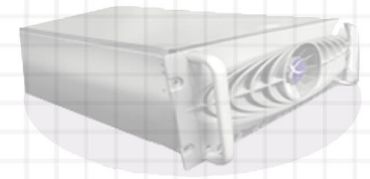


AA Config Screen

- First thing to notice, in the 'Controller Admin / AA Config' screen you have 4 choices
- Code revision xx40 and above
- Need to re-boot to change mode

Single Controller mode	<input type="radio"/>
Dual Controller Non-Redundant mode (DCNR)	<input checked="" type="radio"/>
2-port Active-Active mode (2 ports active)	<input type="radio"/>
4-port Active-Active mode (4 ports active)	<input type="radio"/>

Check to confirm

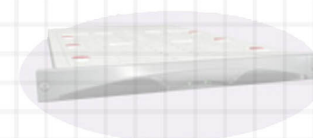
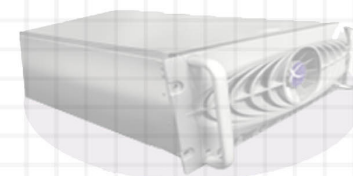




Single Controller mode

For use when only one controller is installed & should not be used with dual controller installations

Can be connected directly or via a switch



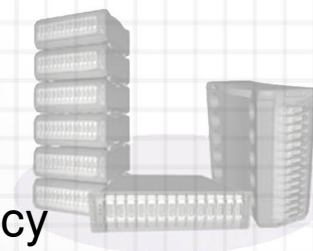
DCNR

(Dual Controller Non Redundant)

For use with two controllers when automatic Controller redundancy is not needed

Can also be connected directly or via a switch

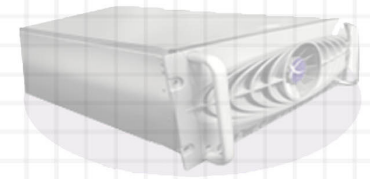
Note : No longer splits the unit in half for the arrays!!!





2 port AA Mode

Connect ALL FC ports via a switch
(1 live & 1 passive port per controller)

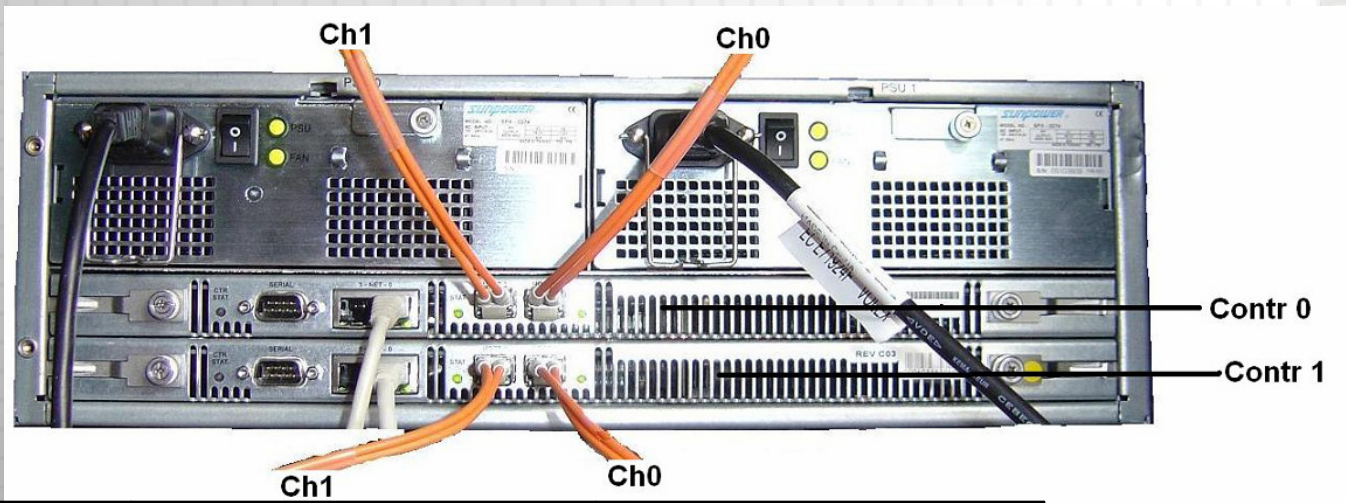




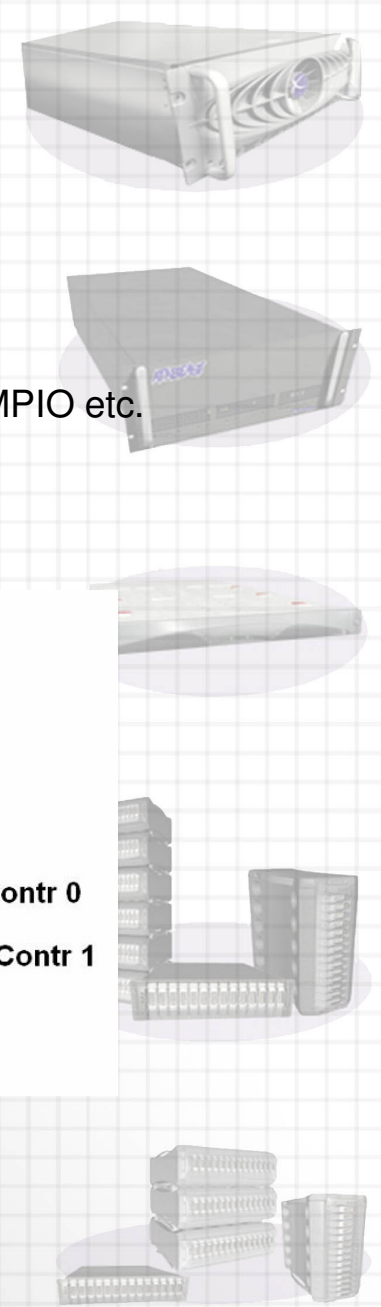
2 port AA - Normal Mode

- Each controller's volumes are mapped to the **Active** port only
- ONLY 1 path to each volume so it DOES NOT runs with Veritas DMP, MPIO etc.

Controller 0	Passive Port	Active Port
Port name	(Port1):50-00-40-21-02-F4-10-26	(Port0):50-00-40-20-02-F4-10-26



Controller 1	Active Port	Passive Port
Port name	(Port1):50-00-40-23-02-F4-10-26	(Port0):50-00-40-22-02-F4-10-26



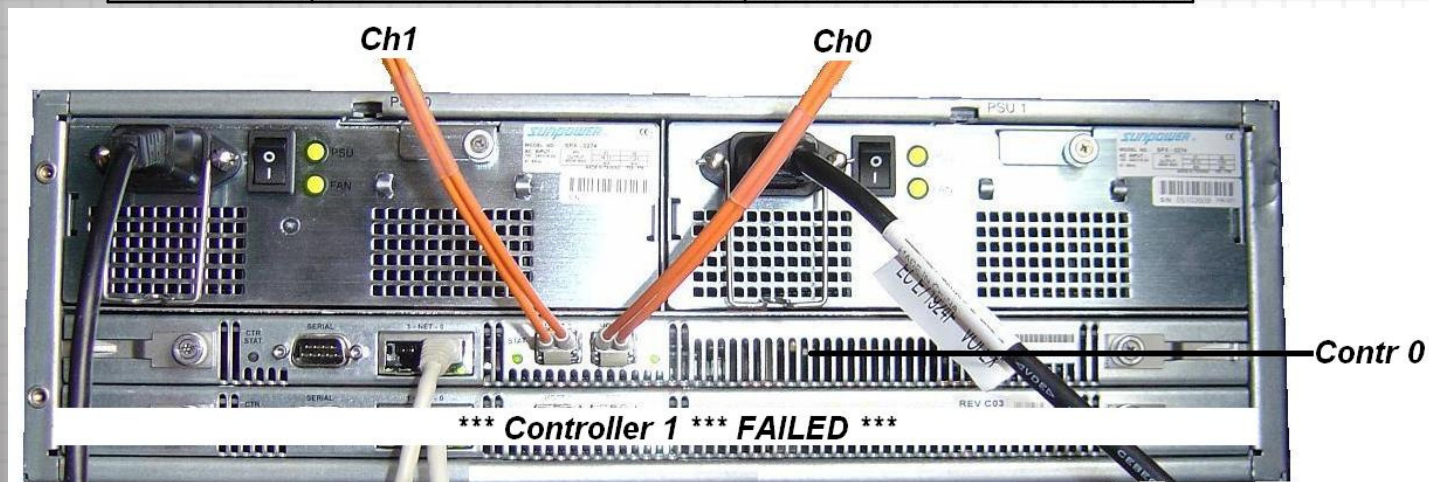


2 port AA

AFTER CONTROLLER 1 HAS FAILED...

- ❶ Controller 1 fails
- ❷ RAID sets from Controller 1 are passed to Controller 0
- ❸ Ports on controller 0 log out & log back in (port 1 has new WWN (23 instead of 21))

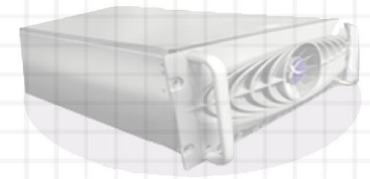
Controller 0	Active Port	Active Port
Port name	(Port1):50-00-40-23-02-F4-10-26	(Port0):50-00-40-20-02-F4-10-26





4 port AA Mode

Connected Via a switch
(All 4 ports are live)



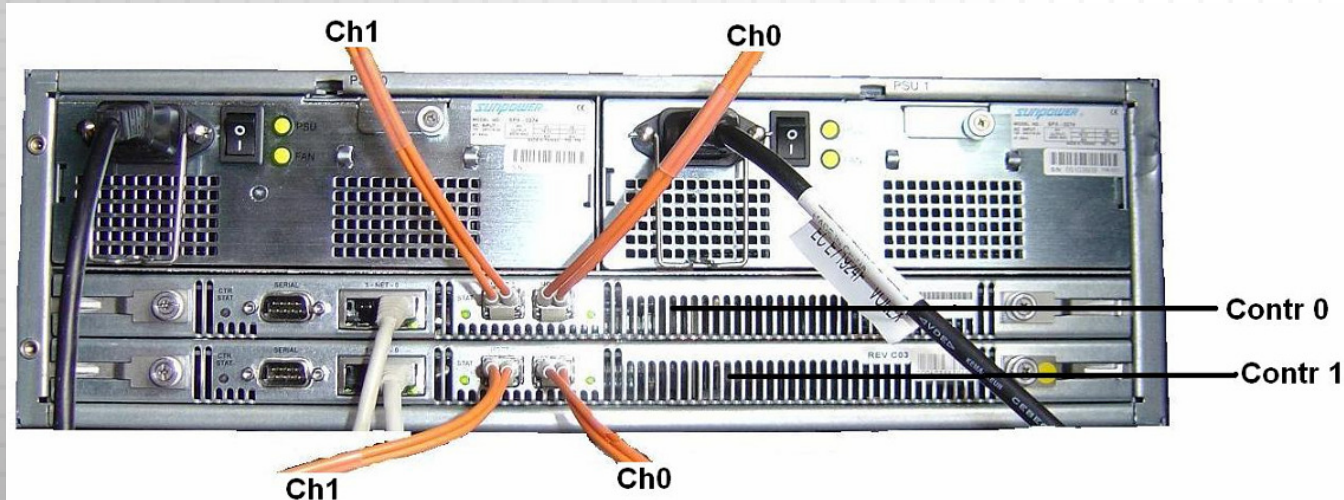


Normal Mode

4 port AA - Normal Mode

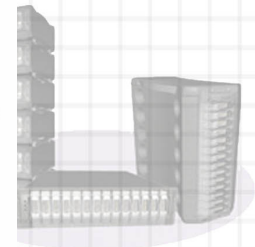
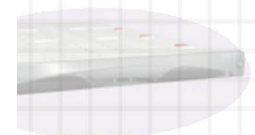
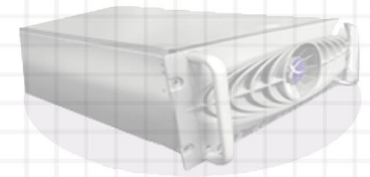
- Each controller's volumes are mapped to both of its ports
- It runs with Veritas DMP, MPIO etc

Controller 0	Active Port	Active Port
Port name	(Port1):50-00-40-21-02-F4-10-26	(Port0):50-00-40-20-02-F4-10-26



Controller 1	Active Port	Active Port
Port name	(Port1):50-00-40-23-02-F4-10-26	(Port0):50-00-40-22-02-F4-10-26

Note : The Volumes can not be mapped to all 4 ports! Each RAID set is owned by one controller & therefore can only have its volumes mapped to the two ports on that controller.





4 port AA

AFTER CONTROLLER 1 HAS FAILED...

- ❶ Controller 1 fails
- ❷ RAID sets from Controller 1 are passed to Controller 0
- ❸ Ports on controller 0 log out & log back in (port 1 has new WWN (23 instead of 21))
- ❹ It still runs with Veritas DMP, MPIO etc via remaining path

Controller 0	Active Port	Active Port
Port name	(Port1):50-00-40-23-02-F4-10-26	(Port0):50-00-40-20-02-F4-10-26

