

ICY DOCK Compatibility Test Report TX4300 with Enclosure MB454SPF

Objective

The objective of the compatibility test is to make sure Promise controller FastTrak TX4300 works properly with Icy Dock external enclosure MB454SPF (MB453SPF and MB455SPF enclosures should have the same test result as the enclosure being tested). The test will focus on the controller and the enclosure's ability to handle Hot Plug, Hot Swap, and display LED activity properly as Icy Dock's manual stated. When the LED is showing a constant Green, it means the hard drive is present in the carrier. When the LED is blinking Amber, it means there is disk access activity on that hard drive.

Test Environment

Mother board: Tyan S2895 with NVIDIA nForce Pro chipsets

Memory: 2GB DDR ECC PC2100 RAM

CPU speed: Dual AMD Opteron 1.8 GHz

Hard drives: 4x HDDs

- Maxtor DiamondMax 10
- Seagate Barracuda SATA V ST3120023AS
- Hitachi Deskstar 7K80 HDS728080PLSA80
- Maxtor DiamondMax Plus 9

External enclosures: 1x 4 carriers, Icy Dock enclosure, model MB454SPF

RAID controllers: 1x Promise FastTrak SX4300

Setup

Steps to setup FastTrak SX4300 with Icy Dock enclosures:

1. Hook Access Cables from ACC IN pins on the enclosure to jumper JP1 on the controller (odd pins goes to negative and even pins goes to positive)
2. Change ACC SET jumpers for all HDDs to Open on the enclosures
3. Connect all power cables and SATA cables accordingly

Test Result

Result for FastTrak SX4300:

<u>Tests</u>	<u>Result</u>
Hot Swappable:	OK
Hot Plug:	OK
Activity LED blinks Amber:	OK*
Power LED constant Green:	OK*
Status LED:	NOT APPLICABLE

- * Note: Hard drives need to be equipped with LED activity signal on pin 11 of SATA power interface. Known hard drives not compatible are: Western Digital WD360 Raptor and WD740 Raptor.

Conclusion

FastTrak SX4300 is fully compatible with Icy Dock enclosure MB454SPF if the requirement from what noted above is satisfied. The enclosure will have a constant LED color green when there is a hard drive present in the carrier. The LED will blink amber when there is disk access to the hard drives.