



# HighPoint RocketRAID Controllers with ICY DOCK Series Enclosures

## Compatibility Report

Compatibility Report  
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## Introduction

The purpose of this report is to show the compatibility of the HighPoint RocketRAID SATA / SAS controller(s) with the ICY Dock Series Enclosures.

## HighPoint RocketRAID SATA RAID Controllers

	Enterprise	Value	Upgrade
<b>RocketRAID Series</b>	RocketRAID3500 -SATA	RocketRAID2300-SATA	RocketRAID1700 -SATA
<b>Target Market</b>	Independent Hardware RAID Engine onboard	Hardware-Assisted XOR Engine onboard	Hardware-Assisted XOR Engine onboard
<b>RAID Levels</b>	0,1,5,6,10,50 & JBOD	0,1,5,10,50 & JBOD	0,1,5,10 & JBOD
<b>TerabyteGuard</b>	Yes	Yes	Yes
<b>TerabyteSaver</b>	Yes	No	No
<b>Hard Drive</b>	SATA	SATA	SATA
<b>Port Design</b>	Internal Port External Port	Internal Port External Port Hybrid Port	Internal Port External Port Hybrid Port
<b>Port Count</b>	2 ~ 16 ports	4 ~ 16 Ports	2 ~ 4 Ports
<b>Bus Type</b>	PCI-Express x8	PCI-Express x1,x4,x8	PCI
<b>System Drivers</b>	Window Server 2008/ Vista Linux/ Mac OSX	Window Server 2008/ Vista Linux/ Mac OSX	Window Server/ Vista Linux /MAC OSX
<b>FreeBSD</b>	7.0 Native Embedded	7.0 Native Embedded	7.0 Native Embedded
<b>Linux</b>	2.6.25 native kernel embedded	Binary / Open source drives Avail.	Binary / Open source drives Avail.

## ICY Dock Series Enclosures

The ICY Dock Series Enclosures are multi-bay and combine the versatility of SATA drives and hot-swap functionality. The ICY Dock Series Enclosures have a high speed SATA interface for users that require bandwidth and additional expansion availability.

The ICY Dock Series Enclosures are an ideal solution for professional Photographers, Video Editors, Graphic Designers.

## TEST CONFIGURATIONS

Test Case #	Test Configuration Name	Result
1	Single Disk	Pass
2	Multiple Disk	Pass
3	Create RAID Arrays	Pass
4	SAS Hot Swap	Pass
5	LED Verification	Pass

**Note:** LED cables are not required for RocketRAID series controllers. LED functions (activity / failed) will work without LED cable attached to the RocketRAID series controllers.

## HARDWARE AND SOFTWARE DETAIL

Host Adapters	Board Revision	BIOS
RocketRAID 3500 Series	v1.0	v1.4.0416
RocketRAID 2300 Series	v2.0	v2.3
RocketRAID 1700 Series	v1.0	v.20

Windows Vista Device Driver	Version	Date
RocketRAID 3500 Series	1.2.13.3	1/15/2008
RocketRAID 2300 Series	2.2.8.314	3/14/2008
RocketRAID 1700 Series	2.0.7.1023	3/14/2008

Software Utilities	Version
HighPoint HRM	v1.4-9

## HARDWARE TEST EQUIPMENT

### Host Server

Make	Model	Chipset	CPU	Memory
Supermicro	X6DHT-G	Intel E7520	Dual Xeon	2GB

### Hard Drives

Manufacturer	Model	Capacity	RAID Set
Hitachi	HDT7250050VLA360	500GB	1.5
Seagate	ST3400832AS	400GB	1.5
Samsung	HE103UJ	1000GB	1.5
WD	WD1001FALS	1000GB	1.5

### Enclosure Model

Model	Number of Bays
MB455	5
MB454SPF	4
MB453SPF	3

## **Test Cases**

### **Test Case #1**

Single Disk – a single disk was inserted into the MB455 drive bay. The single drive was test to see if it be recognized in the HighPoint HRM.

### **Test Case #2**

Multiple Disk – Multiple disks were inserted into the MB455 drive bay. The multiple drives were to for recognition in the HighPoint HRM

### **Test Case #3**

Create RAID Arrays – RAID 1 and RAID 5 and single disk were created with the drives from the HighPoint HRM.

### **Test Case #4**

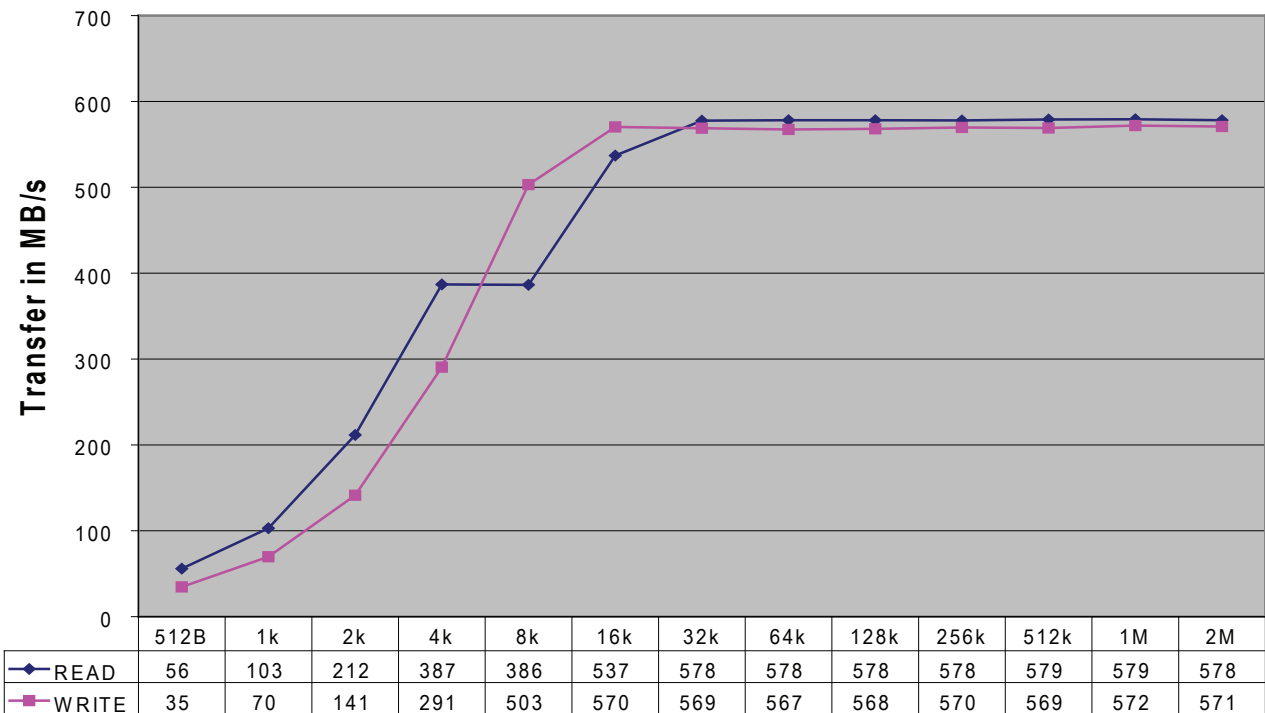
SATA Hot Swap – A drive was removed while the system was still running.

### **Test Case # 5**

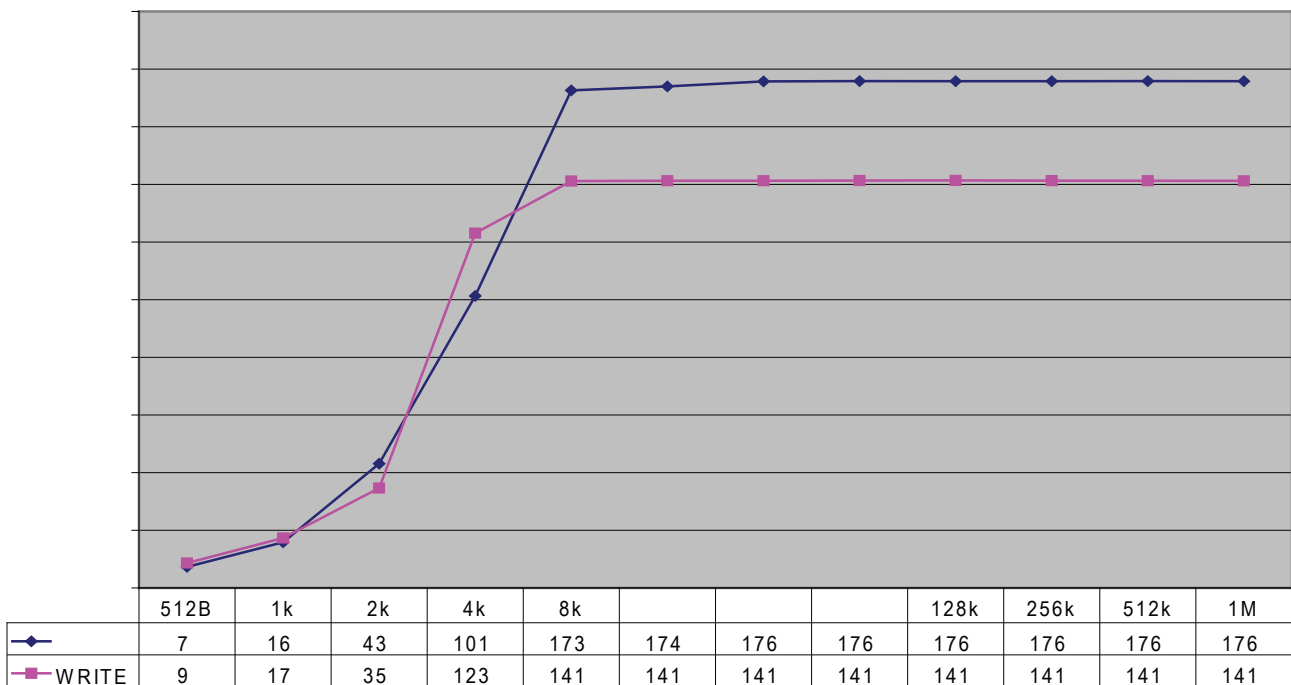
LED Verification – Hard drive LED activity and Failed LED were verified on the attached drives.

# Performance Results

## RocketRAID 3500 Series Sequential RAID 5 READ/WRITE Performance



## RocketAID 1700 Series RAID 5 Sequential READ/WRITE Performance



# Performance Results

## RocketRAID 2300 Series Sequential RAID 5 READ/WRITE Test

