

Rocket 750

40-Channel SATA 6Gb/s PCI-Express 2.0 x8 HBA



Quick Installation Guide

v1.0

Dec. 17, 2012

Table of Contents

HighPoint Rocket 750 HBA	3
Kit Contents	3
Board Layout	4
Hardware Installation	6
Using the Rocket 750 HBA.....	6
Customer Support	7
FCC Part 15 Class B Radio Frequency Interference Statement	8

HighPoint Rocket 750 HBA

The HighPoint Rocket 750 is the industry's first 40-Port 6Gb/s SATA HBA, powered by a PCIe 2.0 host interface and HighPoint's Intelligent Storage Health Management Suite, and was designed for use with any standard PC hardware and software platform. The 10 industry-standard Mini-SAS ports are fully compatible with any generation of SATA hard disk, and directly support up to 160TB of storage capacity.

Features and Specifications

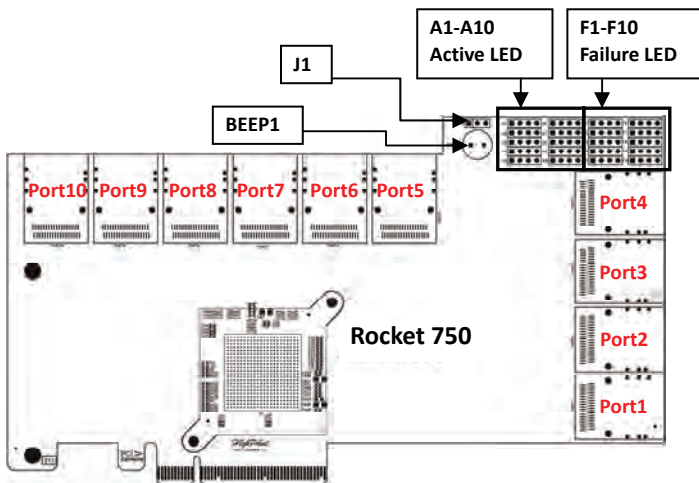
Data Transfer Rate	Up to 6Gb/s (per SFF-8087)
Device Connector Type	SFF-8087 (Internal Mini-SAS)
Number of Connectors	10
Host Bus Interface	PCI Express 2.0 x8 speed
Onboard Indicators /Monitor	Alarm Buzzer , Fail and Active LEDs
Device Supported	Up to 40 SATA devices
Supported Device Feature	Staggered Drive Spin Up
	Hot-Plug and Hot-Swap support
	Larger than 2 TB drive support
Management Suites	Intelligent Storage Health Manager
Operating System Support	Windows: 8 / 2012 / 7 / 2008R2 Linux: Open Source Driver /Ubuntu / SLES / RHEL / Open SuSE / Fedora , FreeBSD
Monitoring and Management Support	SGPIO, Active/Fail LED, I2C

Kit Contents

- One Rocket 750 Host Adapter
- Software CD
- Quick Installation Guide

Board Layout

Rocket 750 PCB Board Layout



Connector and Jumper Description

A1-A10	Disk Activity LED connector pins.									
	P1 P2 P3 P4				P1 P2 P3 P4					
	A1					A6				
	P1 P2 P3 P4				P1 P2 P3 P4					
	A2					A7				
	P1 P2 P3 P4				P1 P2 P3 P4					
	A3					A8				
	P1 P2 P3 P4				P1 P2 P3 P4					
	A4					A9				
	P1 P2 P3 P4				P1 P2 P3 P4					
	A5					A10				

		P1	P2	P3	P4
	A1	Drive1	Drive2	Drive3	Drive4
	A2	Drive5	Drive6	Drive7	Drive8
	A3	Drive9	Drive10	Drive11	Drive12
	A4	Drive13	Drive14	Drive15	Drive16
	A5	Drive17	Drive18	Drive19	Drive20
	A6	Drive21	Drive22	Drive23	Drive24
	A7	Drive25	Drive26	Drive27	Drive28
	A8	Drive29	Drive30	Drive31	Drive32
	A9	Drive33	Drive34	Drive35	Drive36
	A10	Drive37	Drive38	Drive39	Drive40

F1-F10	Disk Failure LED connector pins.				
					
		P1	P2	P3	P4
	F1	Drive1	Drive2	Drive3	Drive4
	F2	Drive5	Drive6	Drive7	Drive8
	F3	Drive9	Drive10	Drive11	Drive12
	F4	Drive13	Drive14	Drive15	Drive16
	F5	Drive17	Drive18	Drive19	Drive20
	F6	Drive21	Drive22	Drive23	Drive24
	F7	Drive25	Drive26	Drive27	Drive28
	F8	Drive29	Drive30	Drive31	Drive32
	F9	Drive33	Drive34	Drive35	Drive36
	F10	Drive37	Drive38	Drive39	Drive40

J1	I2C can monitor the speed of fan and temperature in the enclosure.
BEEP1	Audible alarm – will sound if a disk fails or stops responding.
PORT1 to PORT10	These represent the Rocket 750's 10 Internal Mini-SAS ports. Each port can directly support up to 4 hard disks.

Active/FAIL LED PIN connector:

Active/Failed LED Pin Connectors

Two pins are provided for each of the Rocket 750's 40 device channels: one for disk activity, and one for disk failure. For more information about LED functionality and connection requirements, please refer to:

http://www.highpoint-tech.com/PDF/LED_connection.pdf

Hardware Installation

Installing the Rocket 750 HBA

Note: Make sure the system is powered-off before installing the Rocket 750 HBA.

1. Open the system chassis and locate an unused PCI-E (2.0/1.0) (x8, x16) slot or (3.0) (x16) slot.
2. Remove the PCI slot cover.
3. Gently insert the Rocket 750 HBA into the PCI-E slot, and secure the bracket to the system chassis.
4. After installing the adapter, attach the hard disks or disk enclosure to the Rocket 750 HBA using the appropriate data cables.
5. Close and secure the system chassis.

Using the Rocket 750 HBA

Rocket 750 HBA BIOS

After installing the Rocket 750, power on the system. The Rocket 750 BIOS should post during the system's boot procedure. The BIOS does not include a

management interface. The Rocket 750 and hosted devices can be managed at the operating system level, using the Intelligent Storage Health Manager interface.

Driver and Software Installation (Windows)

1. After installing the Rocket 750 host adapter, boot to the Windows operating system.
2. Windows should automatically detect the card, and displays the “Found New Hardware Wizard”. Select “Locate and install driver software”.
3. Select “Browse my computer for driver software”.
4. Browse to the location of the driver and click “Next”.
5. Reboot the system when prompted. The Rocket 750 host adapter will be ready for use after Windows reboots.
6. Browse to the location of the HighPoint Intelligent Storage Health Manager Suite and double click the setup program to install.

Please refer to the online help for storage set up through R750 Webpage: Global View, Physical, Settings, Event and SHI.

<http://www.highpoint-tech.com/help/>

Driver and Software Installation (Linux and OS x)

Please refer to the README file and Installation Guide under the driver folder for the appropriate installation procedure.

Customer Support

If you encounter any problems while utilizing the RocketRAID series HBA, or have any questions about this or any other HighPoint Technologies, Inc. product, feel free to contact our Customer Support Department.

Web Support: <http://www.highpoint-tech.com/websupport/>

HighPoint Technologies, Inc. websites:

<http://www.highpoint-tech.com>

FCC Part 15 Class B Radio Frequency Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment under FCC rules.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

European Union Compliance Statement

This Information Technologies Equipment has been tested and found to comply with the following European directives:

- European Standard EN55022 (1998) Class B
- European Standard EN55024 (1998)

© Copyright 2013 HighPoint Technologies, Inc. All right reserved.