



Rocket 750

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

User's Guide

Revision: 1.1

Nov. 27, 2015

HighPoint Technologies, Inc.

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HighPoint Rocket 750 HBA

Industry 1st Lowest-Cost 40-Port SATA 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 320TB of storage capacity.

The HighPoint Non-RAID Management Software provides a user friendly interface to monitor and maintain your storage solutions.

1 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
Physical Form Factor	Full Height
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: OpenSource Driver /Ubuntu /SLES /RHEL /Open SuSE / Fedora, FreeBSD
Supported Storage Expansion Options	None
Monitoring and Management Support	SGPIO, Active/ Fail LED, I2C

2 Physical Specifications

Dimensions:

198 mm x 110 mm x 19 mm (7.80" L x 4.39" H x 0.06" W)

EMI:

FCC Part 15 Class B and CE

Thermal and Atmospheric Characteristics:

Work Temperature Range: +5°C ~ + 55°C

Relative Humidity Range: 5% ~ 60% non-condensing

Storage Temperature: -20°C ~ +80°C

MTBF: 920,585 Hours

Electrical Characteristics:

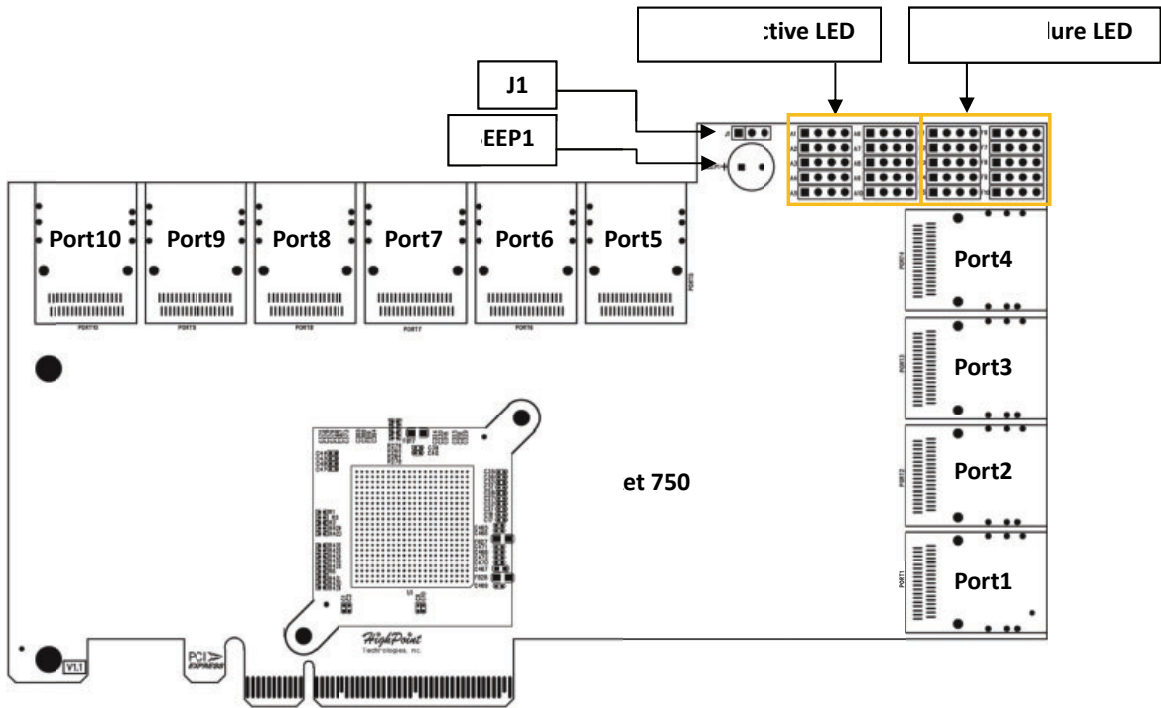
PCI-E	3.3V	12V
Power	4W max	1W max

3 Kit Contents

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

4 Hardware Description and Installation

4.1 Rocket 750 Host Adapter board layout



4.2 Connector and Jumper Description

A1-A10	Disk Activity LED connector pins.				
	A1		A6		
	A2		A7		
	A3		A8		
	A4		A9		
	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.				
	F1		F6		
	F2		F7		
	F3		F8		
	F4		F9		
	F5		F10		
		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 interface can be used for enclosure monitoring.
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

4.3 Installing the Rocket 750 Host Adapter

Note: Make sure the system is powered-off before installing the Rocket host adapter.

1. Open the system chassis and locate an unused PCIe 2.0/1.0 (x8, x16) slot (or 3.0, x16).
2. Remove the PCI-E 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 backplane enclosure to the host adapter using the appropriate cables.

Note: Many server-level chassis include hard-drive hot-swap bays. For these system chassis, cables are attached to the chassis backplane, rather than directly to each individual hard drive. Consult the chassis manual for proper installation procedures.

5. Close and secure the system chassis.

5 Rocket 750 BIOS Utility

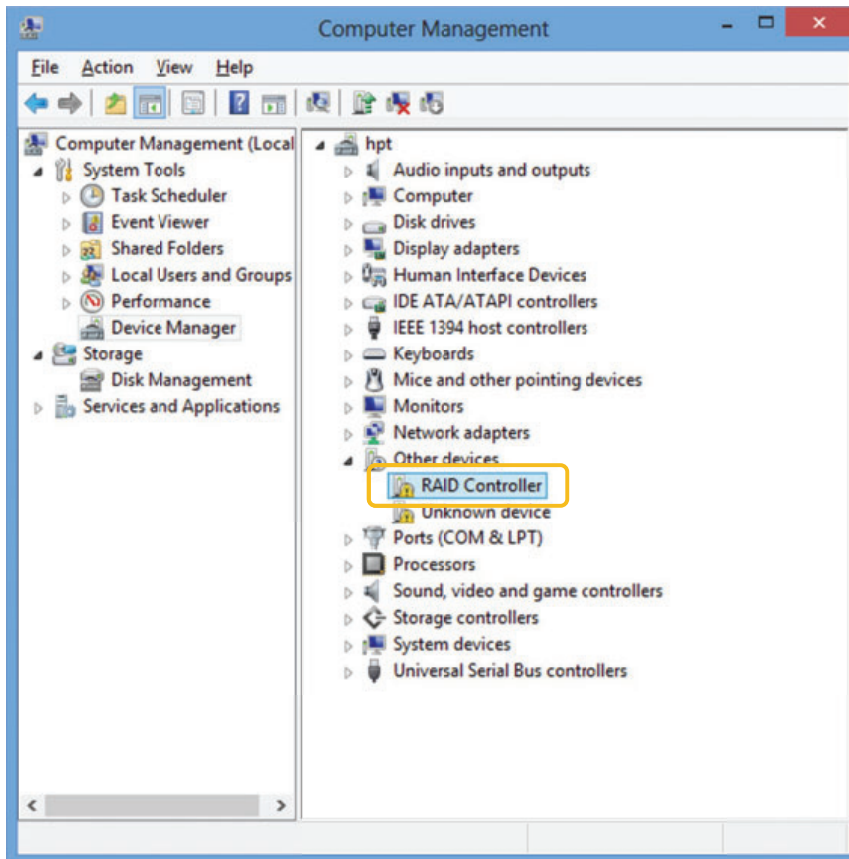
After installing the Rocket 750, power on the system. The Rocket 750 BIOS should post during the system's boot procedure. The BIOS does not include a management interface. The Rocket 750 and hosted devices can be managed at the operating system level, using the Intelligent Storage Health Manager interface.

6 Rocket 750 Driver Installation

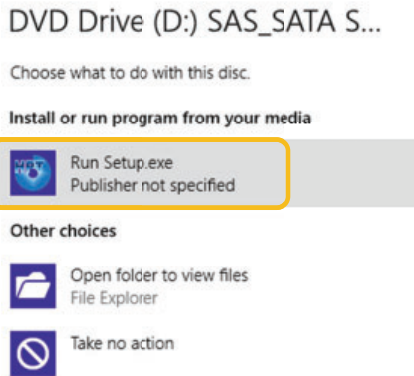
6.1 Driver installation - Microsoft Windows 8 / 2012 / 7 / 2008R2

Installing the driver for an existing Windows operating system

1. Install the Rocket 750 host adapter into the PC, then boot up the Windows operating system.
2. Windows will detect the Rocket 750 HBA and automatically search for the driver.
3. Device Manager will display the Rocket 750 HBA under “Other” devices, with a yellow “!” mark before the “RAID Controller” entry.



4. Insert the HighPoint software CD into the CD/DVD drive. The program should start automatically. Click the Setup.exe icon.

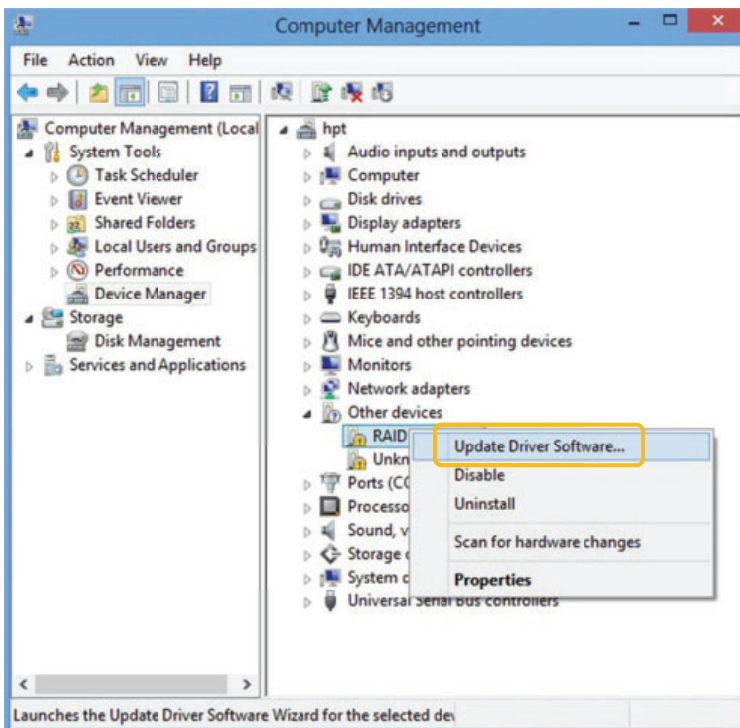


5. The HighPoint Software Install window should be displayed. Click the “Install Driver” button. The interface will install the Rocket 750 driver, automatically.

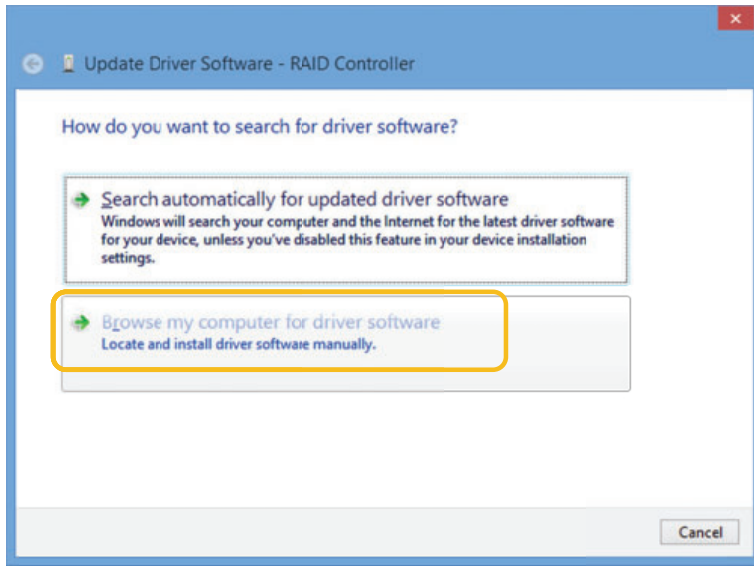




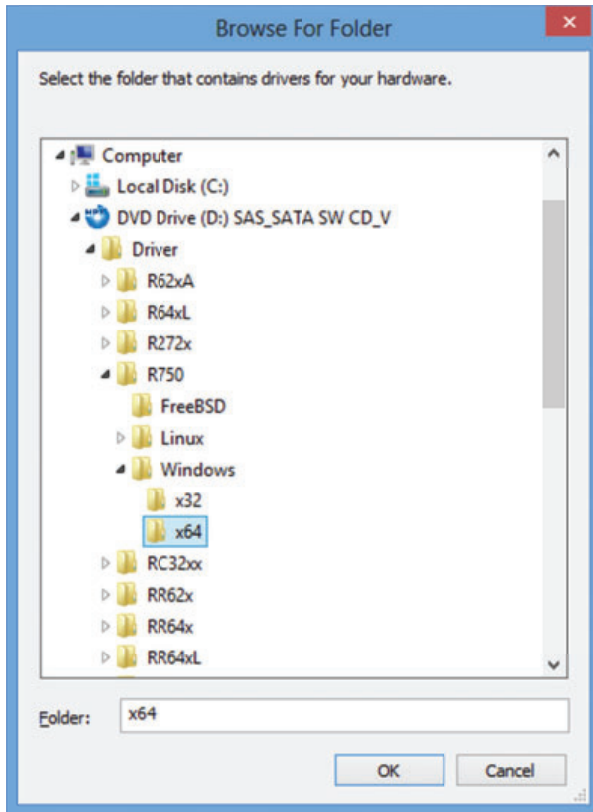
6. You can via the Device Manager entry to install the driver for Rocket 750 HBA too.
7. Right-click the "RAID Controller" entry and select "Update Driver Software".



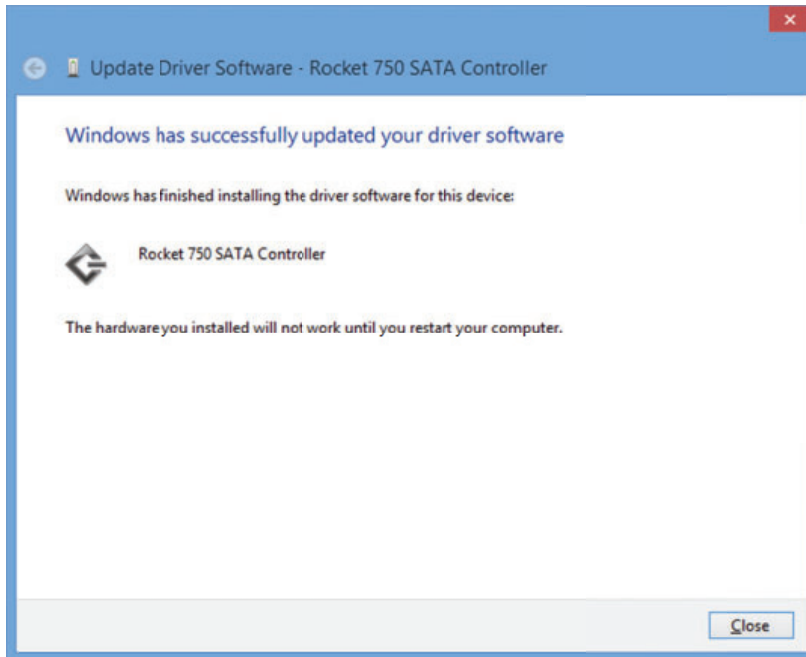
8. Select "Browse my computer for driver software" in the popup window.



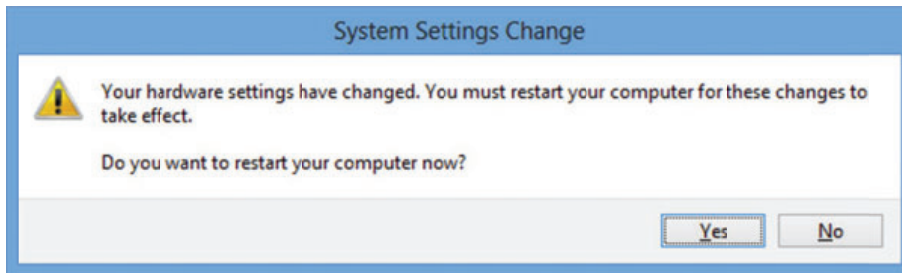
9. Browse to the following Software CD folder:
 \Driver\R750\Windows
 Select the driver option that matches your operating system:
 x32 (32-bit)
 x64 (64-bit).



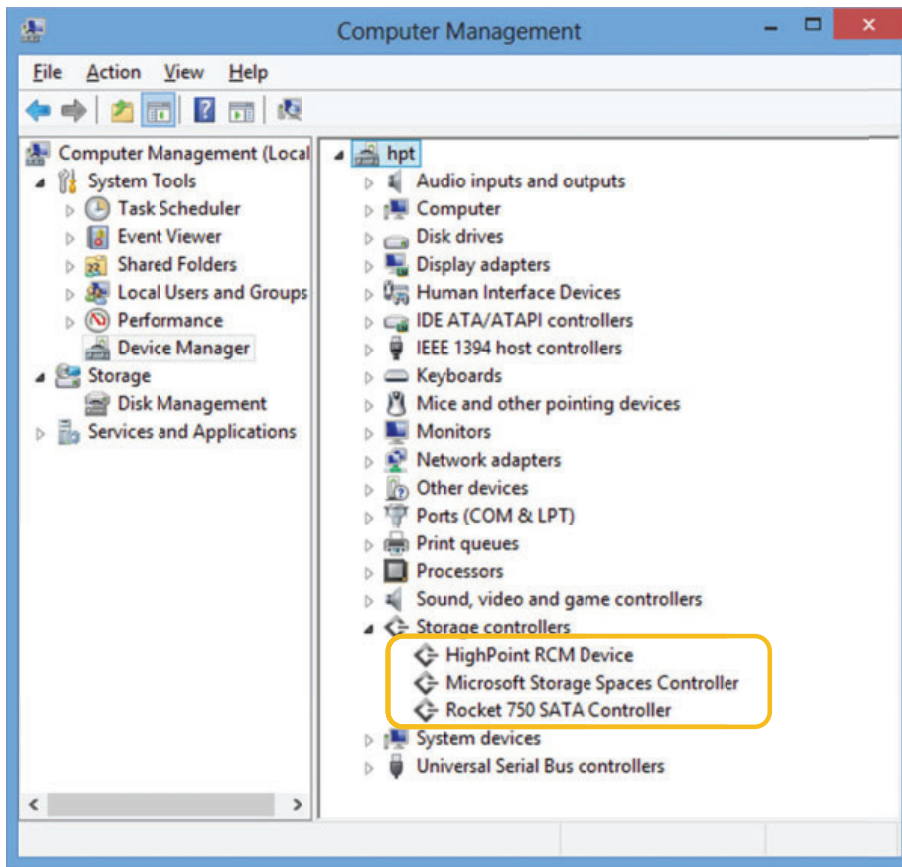
10. Follow the InstallShield Wizard's prompts to install the Rocket 750 driver. Click "Close" to exit the Wizard and reboot once the driver has been successfully installed.



11. Once complete, the interface will notify you that the driver has been successfully installed. Click "OK" to reboot the system.



12. After rebooting the system, the Rocket 750 HBA will be recognized by Device Manager, and listed under “Storage Controllers”.



6.2 Driver installation - Linux and FreeBSD

Please refer to the Driver Installation Guide or README file included with the driver packages for the more information.

Linux driver packages are included with the Software CD:

\Driver\R750\Linux

Before Installing – make sure you have the latest driver updates:

Visit the HighPoint website for the latest driver updates and documentation:

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

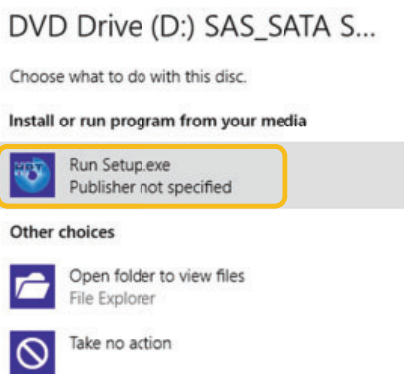
7 HighPoint Non-RAID Management Software

The HighPoint Non-RAID Management software provides configuration and management features. The software can be installed from the HighPoint software CD.

7.1 Installing / Uninstall the Non-RAID Management Software - Microsoft Windows

Install the Non-RAID Management Software

1. Insert the HighPoint software CD into the CD/DVD drive. The program should start automatically. Click the Setup.exe icon.



2. The HighPoint Software Install window should be displayed. Click the "Install WebGUI" button. And click Rocket Series (Non-RAID) icon in the window.

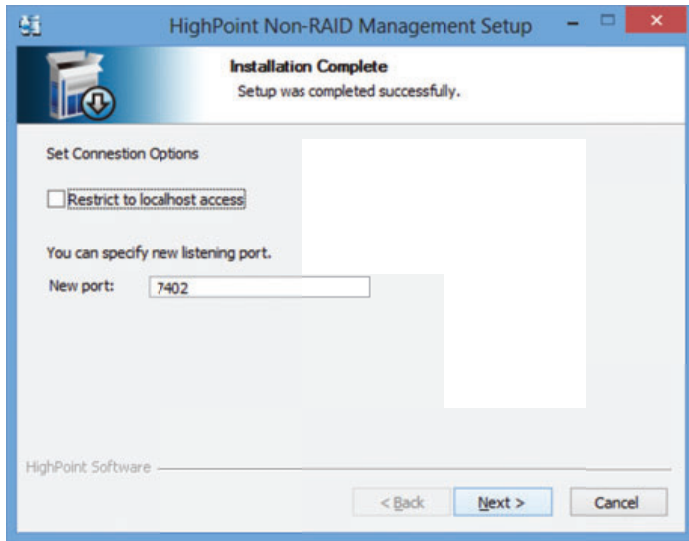




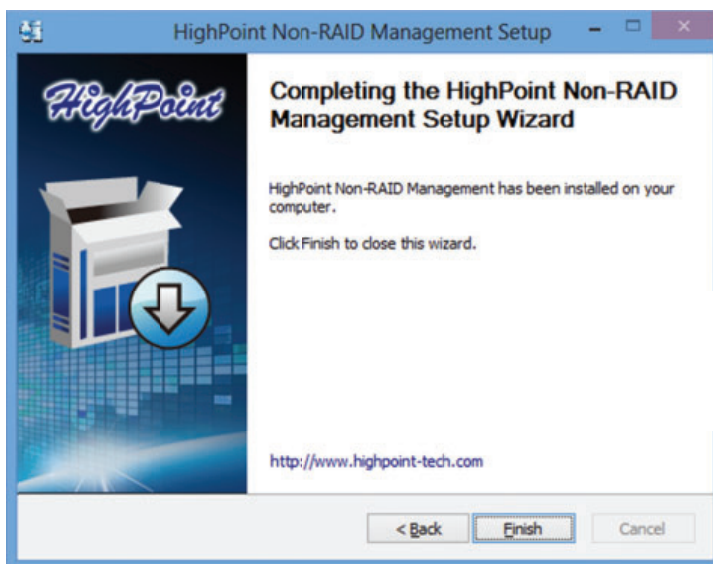
3. Follow the InstallShield Wizard's prompts to install the HighPoint Non-RAID Management interface.



4. Please use the default settings.
Restrict to localhost access – This setting will restrict the HighPoint Non-RAID Management interface to the local network.

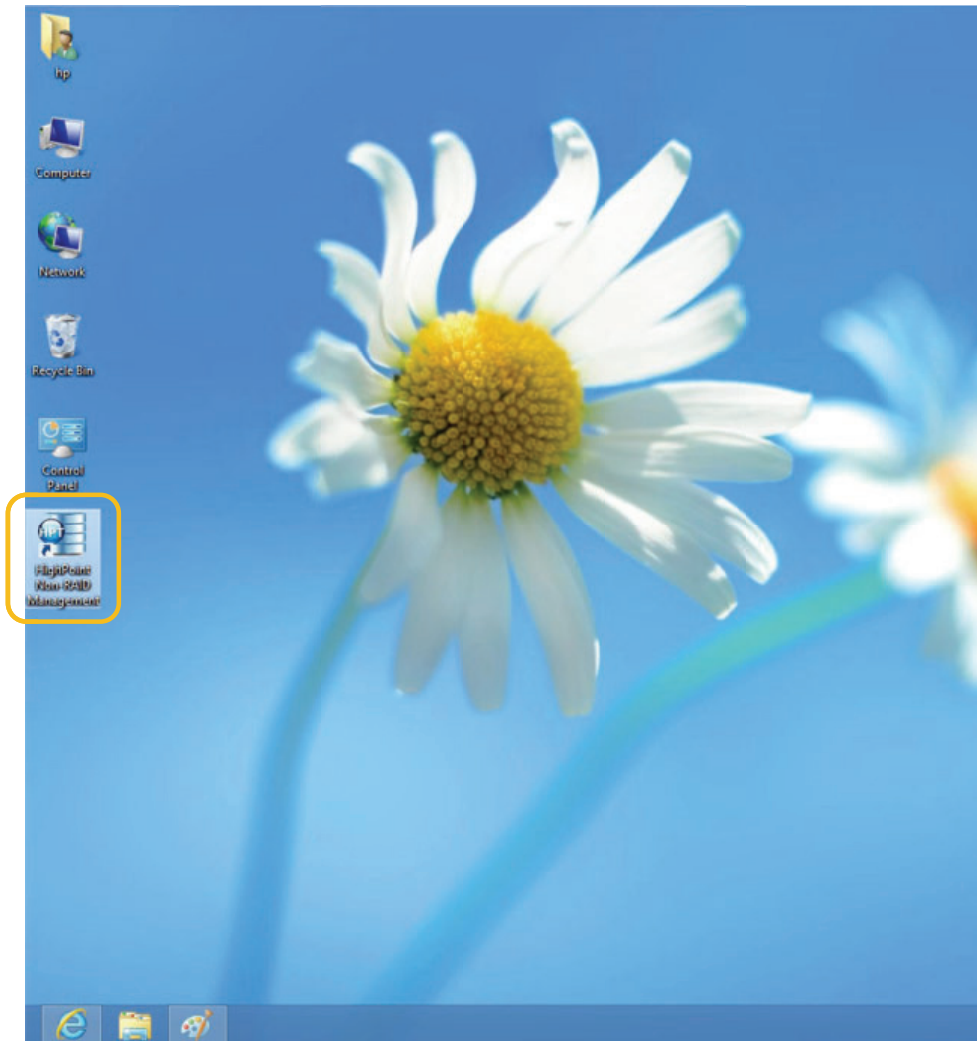


5. Click the “Finish” button to complete the installation procedure.

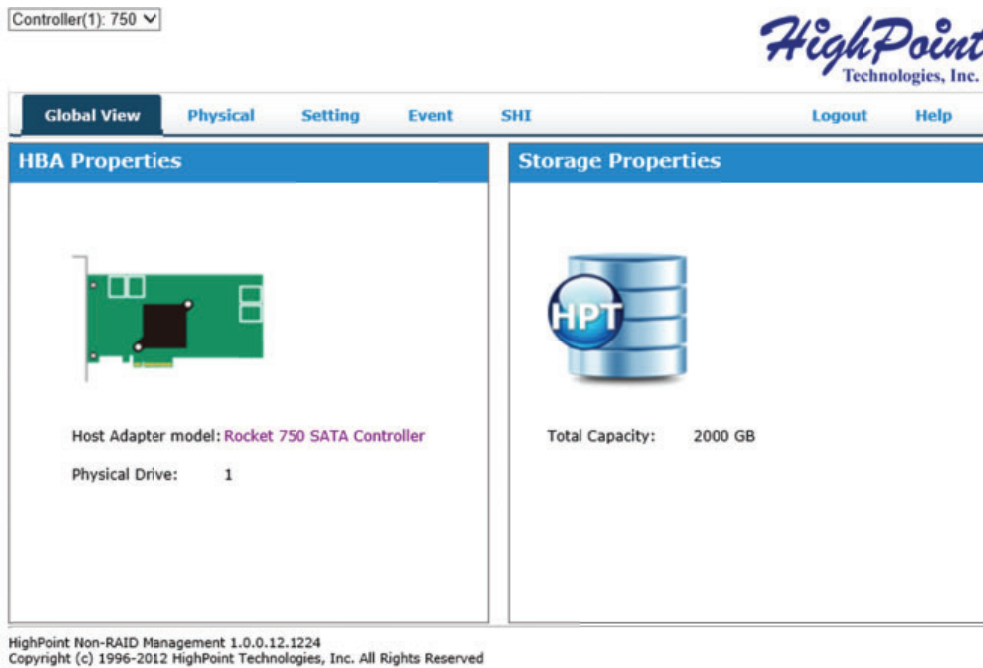


6. **Important:** The default user name is “RAID” and password is “hpt”.

7. To start the HighPoint Non-RAID Management Interface, double-click the “HighPoint Non-RAID Management” icon that was placed on the desktop during the installation procedure.



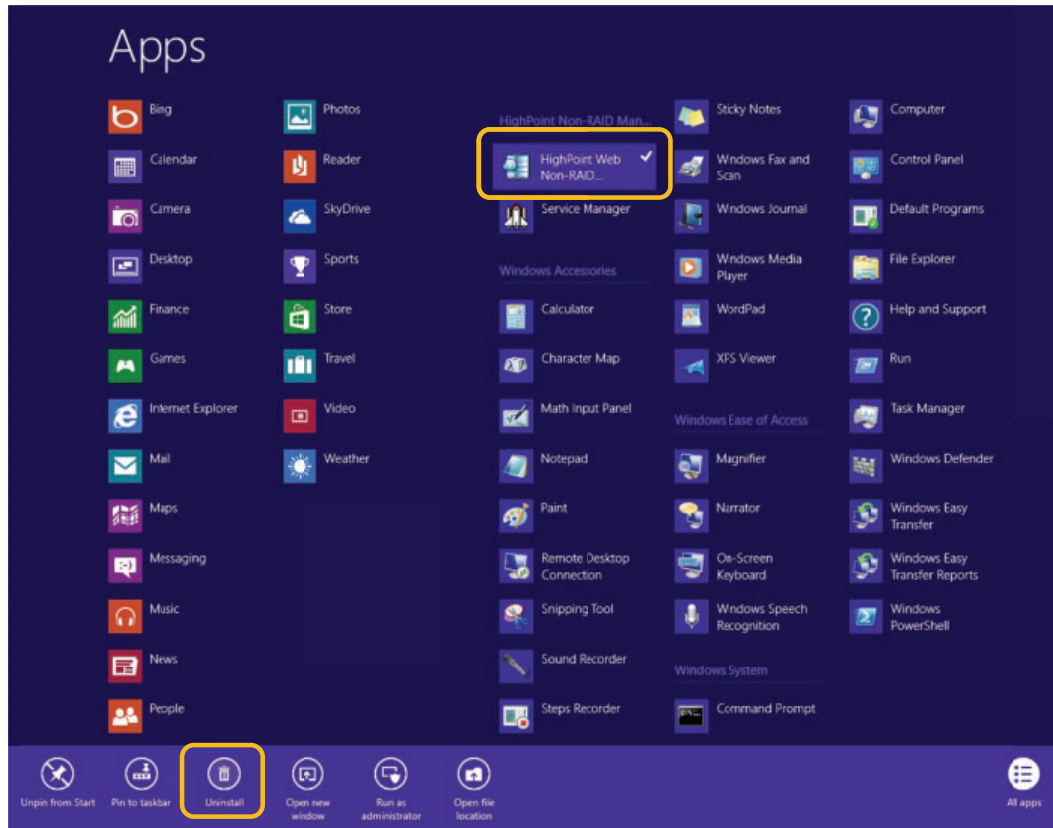
8. Or, start the utility manually by opening your web browser. Enter the following URL address:
<http://localhost:7402>



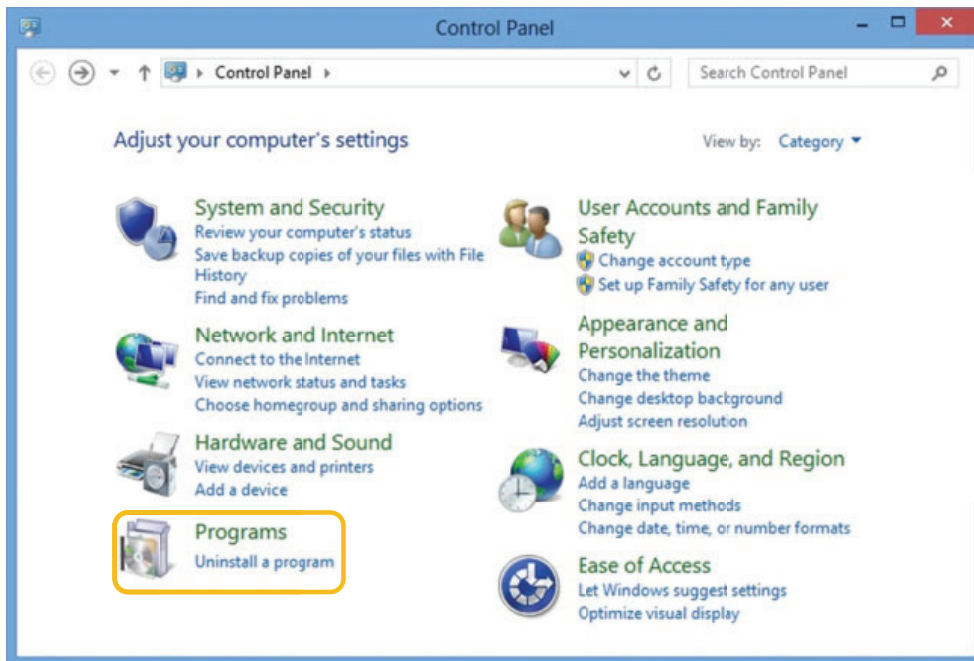
Note: If you are accessing the Non-RAID Management interface using a remote system, please update “localhost” to the server’s address.
If you are unable to connect to the local system, please make sure `hptsvr.exe` is running on that system (check using Windows Task Manager). If it is not running, you can start it manually using the “`net start hptsvr`” command from a Windows command prompt window.
In addition, make sure you are able to access the remote system via a TCP/IP connection, and make sure the firewall (if configured) is not blocking TCP Port 7402.

Uninstall the Web RAID Management Software

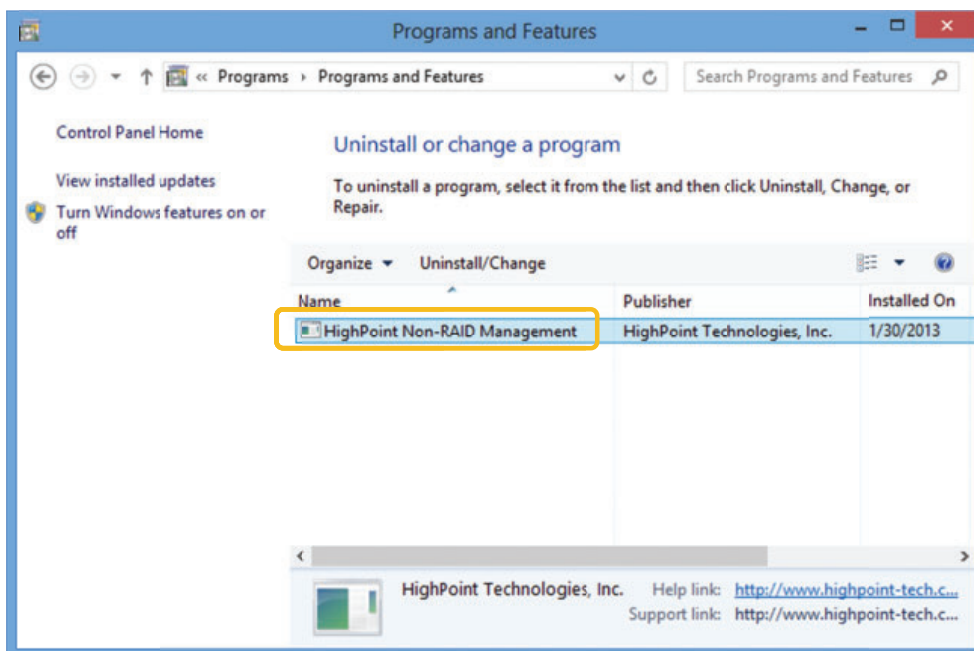
1. There are two choices to uninstall the HighPoint Non-RAID Management software. One is click the “Uninstall” icon in the screen bottom after click the “HighPoint Web Non-RAID Management” icon by All apps.



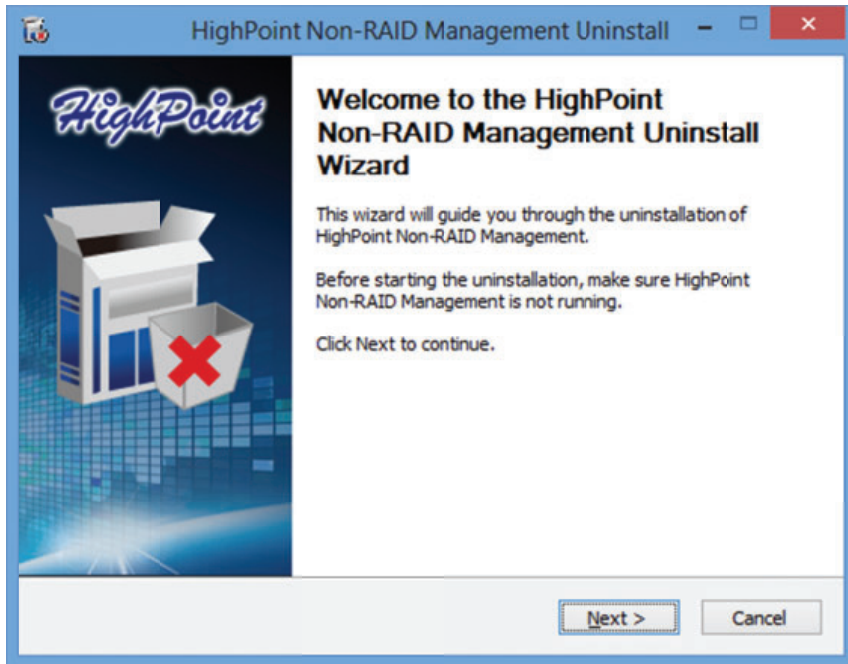
2. The other choice is click the “Uninstall a program” in the Control Panel.



3. Double click the icon in the following folder.



4. Follow the InstallShield Wizard’s prompts to uninstall the HighPoint Non-RAID Management interface.



7.2 Installing / Uninstalling the Web Non-RAID Management Software - Linux

Install the Web Non-RAID Management Software

Please refer to the Web Non-RAID Management Installation Guide or README file under the following folder for the installation procedure.

Software location (HighPoint Software CD):
\Management_Software\Non-RAID_series\Linux

Before Installing – make sure you have the latest driver updates:
Visit the HighPoint website for the latest driver updates and documentation:
<http://www.highpoint-tech.com>

Uninstall the Web Non-RAID Management Software

Open a terminal, and use the following command:
rpm -e hptsrvr-https

7.3 Using the Web Non-RAID Management Software


HighPoint's web-based Non-RAID Management Software (also known simply as the "Web GUI"), is used to monitor and configure hard disks attached to HighPoint Rocket host adapters.

The software package must be installed on a system with supported HighPoint Rocket controllers installed, and the device driver must be loaded to run the service.

7.3.1 Web Non-RAID Management Software - Global View

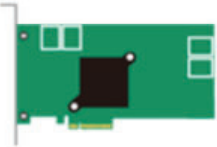
- Controller(1):** Drop-down menu that displays the controller that is currently being managed.
Host Adapter Model: Name of the Rocket series controller
Physical Drive: Total physical drives detected by the Rocket controller
Total Capacity: Total capacity of all detected HDD's

Controller(1): 750 ▾




Global View Physical Setting Event SHI Logout Help

HBA Properties



Host Adapter model: Rocket 750 SATA Controller
Physical Drive: 1

Storage Properties



Total Capacity: 2000 GB

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7.3.2 Web Non-RAID Management Software - Physical

Controller Information

- Model Name:** Rocket model number
BIOS Version: Rocket BIOS version
Vendor: Vendor Name
PCI Bus Number: PCI slot information
PCI Device Number: PCI device number
PCI Func Number: PCI function number

Update BIOS from the web GUI. Browse for BIOS image and click the Submit button.

Controller(1): 750



Global View **Physical** Setting Event SHI Logout Help

Controller 1

Devices
Rescan

Controller Information

Model Name: Rocket 750 SATA Controller
BIOS Version: v1.0
Vendor: HighPoint Technologies, Inc.

PCI Bus Number: 2
PCI Device Number: 0
PCI Func Number: 0

Select the file to update BIOS.
This process may take some time.

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7.3.2.1 Physical - Controller 1 Devices

Physical Devices Information: These are the devices attached to the controller. Information includes the device model, serial number and capacity.

Controller(1): 750

Global View **Physical** Setting Event SHI Logout Help

Controller 1

Devices
Rescan

Physical Devices Information

Device	Model	Serial Number	Capacity
Device_1_1	WDC WD4000FFYZ-01UL1B0-WD-WMC130032536		4.00 TB
Device_1_2	WDC WD4000FFYZ-01UL1B0-WD-WMC130031143		4.00 TB
Device_1_3	WDC WD4000FFYZ-01UL1B0-WD-WMC130032496		4.00 TB
Device_1_4	WDC WD4000FFYZ-01UL1B0-WD-WMC130032417		4.00 TB
Device_1_5	WDC WD2003FYYS-02W0B0-WD-WMA00023092		2.00 TB
Device_1_6	WDC WD2003FYYS-02W0B0-WD-WMA00024567		2.00 TB
Device_1_7	WDC WD2003FYYS-01T8B0-WD-WMAUR0040694		2.00 TB
Device_1_36	WDC WD2003FYYS-01T8B0-WD-WMAUR0042672		2.00 TB
Device_1_37	ST3000VX000-9YW166-S1F0TBCC		3.00 TB
Device_1_38	ST3000VX000-9YW166-S1F0S0VZ		3.00 TB
Device_1_39	ST3000VX000-9YW166-S1F0W6H		3.00 TB
Device_1_40	ST3000VX000-9YW166-S1F0VQM		3.00 TB

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7.3.2.2 Physical - Rescan

The item will rescan the controller to detect devices.

7.3.3 Web Non-RAID Management Software - Setting

This tab displays various controller related settings and options:

Controller(1): 750

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Global View Physical **Setting** Event SHI Logout Help

System
Email

System Setting

Enable audible alarm. Disabled

Set Spindown Idle Disk(minutes): Disabled

Restrict to localhost access. Disabled

Port Number: 7402

Submit

Password Setting

Password:

Confirm:

Submit

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7.3.3.1 Setting - System

Enable audible alarm: When a disk goes off-line the beeper on the HBA will sound.

Set Spindown Idle Disk (Minutes): Hard drives can be instructed to spin down when there is no disk activity for a set period of time. You are free to specify the interval – from 10 to 240 minutes.

Controller(1): 750

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Global View Physical **Setting** Event SHI Logout Help

System
Email

System Setting

Enable audible alarm. Enabled

Set Spindown Idle Disk(minutes): Disabled

Restrict to localhost access. Disabled

Port Number: 7402

Submit

Password Setting

Password:

Confirm:

Submit

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Restrict to localhost access: This option is used to restrict web GUI access to the local system and not allow remote access.

Port Number 7402: The listening port number used to log into the web GUI. 7402 is the default port number. Other port numbers can be used in place of the default as long as they are free.

Password Setting: The default password "hpt" can be changed.
Note: If the current password is lost or forgotten, you can uninstall and reinstall the Web RAID Management software to restore the default settings. When changing the password, the maximum number of characters allowed is eight.

7.3.3.2 Setting - Email

The Rocket 750 HBA can be configured to send Event Log entries to one or more E-Mail addresses.

The screenshot shows the HighPoint Technologies, Inc. web management interface. At the top, there is a dropdown menu for 'Controller(1): 750' and the HighPoint Technologies, Inc. logo. Below the logo is a navigation bar with tabs for 'Global View', 'Physical', 'Setting' (which is selected), 'Event', and 'SHI'. There are also 'Logout' and 'Help' links. On the left side, there is a sidebar with 'System' and 'Email' (selected) options. The main content area is divided into two sections: 'SMTP Setting' and 'Recipients'. The 'SMTP Setting' section includes a checkbox for 'Enable Event Notification', and input fields for 'Server Address (name or IP):', 'Mail From (E-mail address):', 'Login Name:', 'Password:', 'SMTP Port:' (with '25' entered), and 'Support SSL:' (with a checkbox). A 'Change Setting' button is located below these fields. The 'Recipients' section has a table with columns for 'E-mail', 'Name', and 'Event Level'. Below the table is an 'Add Recipient' section with input fields for 'E-mail:', 'Name:', and 'Event Level:', and checkboxes for 'Information', 'Warning', and 'Error'. An 'Add Test' button is located at the bottom of the 'Add Recipient' section. At the bottom of the page, there is a footer with the text: 'HighPoint Non-RAID Management 1.0.0.12.1224 Copyright (c) 1996-2012 HighPoint Technologies, Inc. All Rights Reserved'.

7.3.4 Web Non-RAID Management Software - Event

The Event tab will open the Event View interface.
Event View logs all RAID related activity including administrative actions, warnings and hardware failures.

Clear: Click "Clear" to remove all current entries from the Event View log.

Next: The Event View log can span several pages. Click "Next" to view past entries.

Download: The Event View log can be saved as a text file for reference.

Controller(1): 750



Global View Physical Setting **Event** SHI Logout Help

Download Clear

Event View (1)

Date Time	Description
2013/1/30 15:53:11	Disk 'WDC WD2002FAEX-007BA0-WD-WMAWP0438542' (Location: Device_1_17) temperature is higher than threshold.

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7.3.5 Web Non-RAID Management Software - SHI (Storage Health Inspector)

Storage Health Inspector: SHI will inspect each HDD periodically. If any abnormal status is found, it will be recorded in the Event log.

SHI can help to identify problems with HDD's and prevent further damage or data loss. If additional proof of errors is needed, the HDD's can be placed onto the onboard SATA port and a 3rd party SMART software utility can be run.

HDD Temperature Threshold: Setup the HDD temperature threshold to prevent HDD overheating. When the HDD goes beyond the threshold an alert will be triggered.

SMART: SMART attributes for each HDD will be displayed.

Controller(1): 750



Global View Physical Setting Event **SHI** Logout Help

Schedule

Storage Health Inspector (SHI)

Controller ID	Port#	Device Serial Number	°F	Bad Sectors Found & Repaired	Device Status
1	1	WD-WMC130032536	105	None	OK SMART
1	2	WD-WMC130031145	104	None	OK SMART
1	3	WD-WMC130032496	102	None	OK SMART
1	4	WD-WMC130032417	102	None	OK SMART
1	5	WD-WMAY00023092	105	None	OK SMART
1	6	WD-WMAY00024567	100	None	OK SMART
1	7	WD-WMAUR0040694	102	None	OK SMART

1	37	S1F0TBBC	89	None	OK SMART
1	38	S1F0S0VZ	89	None	OK SMART
1	39	S1FORW6H	89	None	OK SMART
1	40	S1FORVQM	87	None	OK SMART

HDD Temperature Threshold

Set harddisk temperature threshold (F): Set

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Controller(1): 750



Global View Physical Setting Event **SHI** Logout Help

[Schedule](#)

Storage Health Inspector(SHI)

Controller ID	Port#	Device Serial Number	°F	Bad Sectors Found & Repaired	Device Status
1	14	JK1171YAGT9E9S	114	None	OK SMART
1	15	9VS03SNN	116	67	OK SMART
1	16	9VS00HWT	111	89	OK SMART

Device Name: Devica_1_14
 Model Number: Hitachi HDS722020ALA330-JK1171YAGT9E9S
 Temperature Celsius: 46
 S.M.A.R.T: Enabled [Disable](#)

S.M.A.R.T Attributes

ID	Name	Threshold	Worst	Value	Status
1	Raw Read Error Rate	16	100	100	OK
2	Throughput Performance	54	133	133	OK
3	Spin Up Time	24	125	125	OK
4	Start Stop Count	0	100	100	OK
5	Reallocated Sector Ct	5	100	100	OK
7	Seek Error Rate	67	100	100	OK
8	Seek Time Performance	20	112	112	OK
9	Power On Hours	0	100	100	OK
a	Spin Retry Count	60	100	100	OK
c	Power Cycle Count	0	100	100	OK
c0	Power-Off Retract Count	0	99	99	OK
c1	Emergency Retract Cycle Ct	0	99	99	OK
c4	Reallocated Event Count	0	100	100	OK
c5	Current Pending Sector	0	100	100	OK
c6	Offline Uncorrectable	0	100	100	OK
c7	UDMA CRC Error Count	0	200	200	OK

HDD Temperature Threshold

Set harddisk temperature threshold (F): 140 [Set](#)

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Task List: The Task tab allows you to schedule maintenance system status.



Global View Physical Setting Event **SHI** Logout Help

Tasks List

Health Inspector Scheduler

Task Name:

Select a Schedule: Daily Weekly Bi-Weekly Monthly

Select a time: : :

[Submit](#)

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8 BIOS Update

The BIOS update utility must be run while the system is operating in a pure DOS environment. The update utility cannot be run from a DOS-prompt window.

1. Visit the www.highpoint-tech.com website to download the latest firmware.
2. Extract the download to a bootable DOS USB drive.
3. Boot the system using the bootable USB drive.
4. At the command prompt, access the BIOS update's directory:

```
Directory of C:\R750

[.]          [..]          R750-W~1.ZIP  [R750-W~1.122] WEBGUI~1.ZIP
[WEBGUI~1.102] R750-Q~1.ZIP  [QUICKB~1]
           3 file(s)      2,108,182 bytes
           5 dir(s)      810 Mega bytes free

C:\R750>cd quickb~1

C:\R750\QUICKB~1>dir
Volume in drive C is LYX
Volume Serial Number is 4E38-AC42

Directory of C:\R750\QUICKB~1

.                <DIR>  01-29-13  4:27p
..               <DIR>  01-29-13  4:27p
LOAD             EXE      119,186  10-25-12  4:36p
R750             UI0      3,072   10-24-12  3:54p
README           TXT      2,156   10-30-12  2:31p
           3 file(s)      124,414 bytes
           2 dir(s)      810 Mega bytes free

C:\R750\QUICKB~1>load
```

5. The following command line is used to launch the flash utility:
load.exe
6. After the BIOS has been successfully updated, the following information will be displayed:

```
           2 dir(s)      810 Mega bytes free

C:\R750\QUICKB~1>load

Load Utility for Flash EPROM v12.9.3
(built at Oct 25 2012 16:36:21)

Please input BIOS image file name: r750.v10
                                         Found adapter 1 at bus 2, device 0
Flash size 0x100000, File size 0xc00
Offset address 0x0
EPROM Vendor: WINBOND W25X40BU
Do you want to backup BIOS(Y/N): n
Do you want to update BIOS(Y/N): y
                                         Erasing.Succeeded
Flashing ....
||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Flashing Success (total retry 0)

Verifying ....
||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Passed !

C:\R750\QUICKB~1>
```


9 Thank You

Thank you for purchasing the Rocket 750 SATA 6Gb/s Host adapter. We appreciate your support, and welcome any questions, comments or product suggestions you may have.

10 Customer Support

If you encounter any problem while utilizing Rocket & RocketRAID series host adapters, or have any questions about this or any other HighPoint Technologies, Inc. product, feel free to contact our Customer Support Department.

HighPoint Technologies, Inc. websites:

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

Web Support:

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

<http://www.hptmac.com>