



HighPoint Card Quickstart

PCI-Express Four-Lane eSATA Adapter

610032-1.2 HighPoint Card Quickstart.pdf
June 14, 2010



Proprietary Notice and Disclaimer

Unless noted otherwise, this document and the information herein disclosed are proprietary to Glyph Technologies, 227 Cherry St. Ithaca, NY 14850 ("GLYPH"). Any person or entity to whom this document is furnished or having possession thereof, by acceptance, assumes custody thereof and agrees that the document is given in confidence and will not be copied or reproduced in whole or in part, nor used or revealed to any person in any manner except to meet the purposes for which it was delivered. Additional rights and obligations regarding this document and its contents may be defined by a separate written agreement with GLYPH, and if so, such separate written agreement shall be controlling.

The information in this document is subject to change without notice, and should not be construed as a commitment by GLYPH. Although GLYPH will make every effort to inform users of substantive errors, GLYPH disclaims all liability for any loss or damage resulting from the use of this manual or any software described herein, including without limitation contingent, special, or incidental liability.

© 2002-2008 Glyph Technologies. All rights reserved. Specifications are subject to change without notice. Glyph and the Glyph logo are registered trademarks of Glyph Technologies. All other brands and product names mentioned are trademarks of their respective holders.

Contacting Glyph

Please use the following contact information to contact Glyph and its distributors.
Glyph USA offers phone support Monday through Friday, 9:00 am to 6:00 PM Eastern Time.

Note: DO NOT ship any return goods to the mailing addresses below unless you have a valid RMA number. All goods will be refused delivery unless a valid RMA number is displayed on the outside of the package.

United States of America

Glyph Technologies
3736 Kellogg Rd.
Cortland, NY 13045
USA
Phone: +1 607-275-0345
Fax: +1 607-275-9464
www.glyphtech.com

Sales Contact
sales@glyphtech.com

Technical Support:
tech@glyphtech.com

Europe

Glyph Europe GmbH
Alst 47c,
41379 Brüggen
Germany
Phone: 0049 (0) 2157 / 8702233
Fax : 0049 (0) 2157 / 1289839
www.glyphtech.com

Sales Contact
sales.europe@glyphtech.com

Technical Support:
support.europe@glyphtech.com

Unpacking Your HighPoint Host Adapter

Your Glyph HighPoint Host Adapter and accessories are packaged in a sturdy shipping container. Please inspect the container for evidence of shipping damage and mishandling. If the container is damaged, file a report with the carrier or dealer immediately.

The HighPoint Host Adapter package includes:

HighPoint two port eSATA host adapter
HighPoint User's Guide
Low profile PCI metal bracket
Two SATA to SAS internal cables
Glyph branded CD with Mac driver and quickstart
HighPoint branded CD with all other drivers

About the HighPoint Host Adapter

The Glyph HighPoint card is a 3Gbps/port eSATA card which uses a PCIe slot in your computer. It's designed to be used with enclosures holding two or more drives, such as the GT 062E and the ForteRAID, and delivers 300MB/s on each of its eSATA connections. The HighPoint card is well matched with the ForteRAID, which sustains over 230MB/s in RAID 0 mode. Performance like this is perfect for NLE applications such as Avid Xpress, Adobe Premiere, and Final Cut Pro*; and removes the speed bottleneck for digital photography applications, content creation, and huge sound libraries.

With Glyph Manager software

The HighPoint card allows Glyph Manager 4 software to display health status of the GT 062E and the ForteRAID over eSATA**. Glyph Manager offers a rich user interface which reports enclosure temperature, fan speed, individual drives' health status and temperature, as well as any drive errors or rebuild failures. Glyph Manager constantly monitors the health of the ForteRAID and GT 062E as a background task using S.M.A.R.T. commands. If a problem is detected, it blinks the front LEDs red, and bounces an icon in the Mac OS X dock or displaying an error balloon from the Windows System Tray, alerting the user to open Glyph Manager for more information. By constantly monitoring the drives, you have a chance to backup your data before any is lost due to drive failure.

**ForteRAID with Glyph HighPoint card supports 2 streams of ProRes 422 1080i, 60 fps (HQ and lower); and 4 streams of Apple AIC 720p, 24 fps. Tested on Mac Pro with OS 10.5.8. Not qualified for Uncompressed HD (8-bit or 10-bit) playback or editing.*

***HighPoint card works with Glyph Manager 4 under Macintosh only. Glyph Manager 4 is supported On Windows XP, Vista, and Windows 7 machines with motherboards that include onboard eSATA.*

Advanced Features

The HighPoint card also supports 15,000 and 10,000 rpm SAS (serial attached SCSI) drives if connected to a non-Glyph SAS enclosure. Its on-board RAID controller supports RAID 0,1,5,10 and JBOD when connected to a SATA or SAS enclosure. It supports 3Gb/s (300MB/s) transfer rates, Write-through and write-back cache, S.M.A.R.T. drive monitoring for status and reliability, Native Command Queuing, 64bit LBA for over 2TB support, Hot swap and hot spare, port multipliers with FIS-based switching, support for internal and external storage configurations, and enclosure management.

Setting up the HighPoint Adapter with Mac OS X

Installing the Hardware

1. Power down your computer.
2. Install the HighPoint card into an open PCIe slot, and power on your computer.
3. You'll need to install a driver for the HighPoint card. For Mac OS X 10.4 and above, be sure to install Glyph's proprietary Mac OS X driver which is available at www.glyphtech.com, and on the Glyph branded CD that ships with the card. This Mac driver allows Glyph Manager to work with Glyph RAID products such as the GT 062E and ForteRAID. After downloading the .dmg file, the installer will mount on desktop like the image to the right.
4. Follow the install steps in the Installer Package, and reboot your computer if necessary. Your eSATA connected drives should mount on the desktop like the image to the right. For more installation instructions, please reference the HighPoint User's Guide that came with the card.



Setting up the HighPoint Host Adapter with Windows XP and Vista

Installing the Hardware

1. Power down your computer.
2. Install the HighPoint into an open PCIe slot, and power on your computer.
3. Next you'll need to install the driver for the HighPoint card. After you boot up the computer, Windows will find the card and the New Hardware Wizard will guide you to install the driver. This is the safest method to install the driver because Windows will find the most recent version and install it for you. You can download the correct driver from the HighPoint web site, go to www.highpoint-tech.com, and go to Support > Bios + Drivers > find the RocketRAID 2642. Or you can install the driver from the HighPoint branded CD that came with your card. Downloading the driver may be safest since HighPoint may release new drivers since you bought your card. For use with Glyph products, make sure to download the Non-RAID Version, not the RAID Version.
4. For more installation instructions, please reference the HighPoint User's Guide that came with the card.

A note about Hot-Swapping eSATA drives

Mac OS X supports hot-swapping eSATA drives just like FireWire or USB drives. Windows, however, does not. There is no way to safely remove the drive from a Windows computer while the computer is powered on. If you want to connect or disconnect eSATA drives under Windows, you should power down your computer first.

About eSATA

- eSATA is an external interface technology that grew from the internal SATA I interface.
- The GT 050Q's eSATA port supports speeds up to 1.5 Gb/sec (150 MB/sec), much faster than FireWire 400 or FireWire 800.
- Shielded eSATA cables up to 2 meters in length are available.
- eSATA cables are different than SATA I cables, they are shielded and cannot be used with internal SATA I connectors.
- eSATA uses a "point-to-point" connection, therefore each eSATA drive needs to be connected to its own eSATA port.
- Most computers do not have built-in eSATA, so you'll need a PCI card to connect your drive with eSATA.
- PCI cards are available with 2 or more ports to accommodate your drives.

More Information

Compatible Operating Systems

Mac OS 10.4 and above (Mac Pro Only)
Microsoft XP SP2, Vista, 7
Modern Unix-based, Linux, or BSD

Compatible Computer Systems

PC computer with PCIe slots
Mac Pro (all Mac Pro computers have PCIe slots)
G5 with PCIe slots not compatible

HighPoint Host Adapter Specifications

Glyph part number	HighPoint Card
Warranty	3 Years
External Interface	Two 3Gb/sec eSATA/SAS external ports
Internal Interface	Two 3Gb/sec SATA/SAS internal ports
Bus Interface	Four-lane PCI Express
Chipset	2642
Sustained transfer rate	300MB/s per eSATA port
Advanced Features	Supports SAS (serial attached SCSI) drives Write-through and write-back cache S.M.A.R.T drive monitoring for status and reliability Supports hot plugging of hard drives under Mac OS X

Content Creation Applications

Qualified with Final Cut Pro, Avid Xpress, Adobe Premiere.
Qualified with all major audio production packages, including Digidesign Pro Tools, Steinberg Nuendo and Cubase, Apple Logic, MOTU Digital Performer, Cakewalk Sonar, Sony Vegas and more...