



EC2 - 2 Port eSATA Card Quickstart

Two Port PCI Express eSATA Adapter

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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.

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Unpacking Your EC2 Host Adapter

Your Glyph EC2 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 EC2 Host Adapter package includes:

EC2 Host Adapter PCI card
1-meter eSATA Cable
CD with drivers

About the EC2 Host Adapter

The EC2 card has two eSATA ports. Officially, these are 3Gbps SATA II ports, and can sustain 125MB/s on each port. The EC2 uses a PCIe slot in your computer. When using eSATA, copy speeds will increase significantly when moving large amounts of data from one drive to another. Typically, a GT 050Q can reach around 70MB per second when using FireWire 800. When connected to our EC2 card, speeds of over 110MB/s are easily attainable using the same drive. Higher bandwidth is quite handy when you need to backup the entire contents of your 1.5TB GT 050Q drive.

With your audio applications

Audio applications like Pro Tools also work well using our EC2 card. We've seen slightly better performance using a GT 050Q connected via eSATA compared to FireWire 800. Mostly this has to do with the drive itself being the limiting factor, not the speed of the bus. However, in some situations having the audio interface on one bus and storage on another bus makes a lot of sense. Especially when you need the fastest speed possible for storage and the best reliability for your audio interface.

With your video applications

In a video capture and editing environment, the highest bandwidth possible is needed. The EC2 maximizes the connection to your GT 050Q delivering over 100MB/s of sustained transfer.

The EC2 supports all Serial ATA II features, including 3.0 Gbps SATA II transfer speeds, Native Command Queuing, port multipliers with FIS-based switching, programmable output signal swing strengths for longer external cables or extended backplanes, hot plugging, enclosure management and ATAPI device support.

Setting up the EC2 Host Adapter with Mac OS X

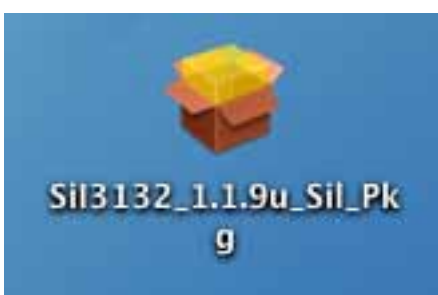
Installing the Hardware

1. Power down your computer.
2. Install the EC2 into an open PCIe slot, and power on your computer.
3. Next you'll need to install the driver for the Silicon Image 3132 chip, which is the chip on the EC2 card. You can either download the correct driver from the Silicon Image web site, or you can install the driver from the CD that came with your EC2 card.

Downloading the driver may be safest since Silicon Image may release new drivers since you bought your card. Go to www.siliconimage.com and go to the support section. Find the **Sil3132 PCI Express (1x) to 2 Port SATA 300** and download the correct driver for Mac OS X. At the time of this writing the latest driver version was 1.1.9. Make sure to download the BASE driver, not the SATARAID5 driver.

If you use choose to install from the CD, navigate to the Mac OS X folder and unzip the `Sil3132_1.1.9u_Sil_Pkg.zip`

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 below, right.



Setting up the EC2 Host Adapter with Windows XP and Vista

Installing the Hardware

1. Power down your computer.
2. Install the EC2 into an open PCIe slot, and power on your computer.
3. Next you'll need to install the driver for the Silicon Image 3132 chip, which is the chip on the EC2 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. Alternately, you can either download the correct driver from the Silicon Image web site, or you can install the driver from the CD that came with your EC2 card.

If you choose to download the driver yourself, go to www.siliconimage.com and go to the support section. Find the **Sil3132 PCI Express (1x) to 2 Port SATA 300** and download the correct driver for your version of Windows. Make sure to download the BASE driver, not the SATARAID5 driver.

If you use choose to install from the CD, navigate to the folder corresponding to the version of Windows you are using, and run the appropriate installer. Make sure to run the NON-RAID installer.

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
Microsoft XP SP2, Vista
Modern Unix-based, Linux, or BSD

Compatible Computer Systems

PC computer with PCIe slots
PowerMac G5 with PCIe slots
Mac Pro (all Mac Pro computers have PCIe slots)

EC2 Host Adapter Specifications

Glyph part number	EC2
External Interface	Two eSATA external ports
Bus Interface	One-lane PCI Express
Chipset	Silicon Image Sil3132
Sustained transfer rate	125MB/s per eSATA port
Advanced Features	Supports Native Command Queuing Supports port multipliers with FIS-based switching Supports up to 10 hard disks using port multipliers Supports hot plugging of hard drives under Mac OS X RoHS Compliant

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...