

DriveWire

UNIVERSAL HARD DRIVE ADAPTER

User's Guide



Attention:

If your DriveWire shipped with a previous version of EZ Gig III, you can download the new EZ Gig IV from Apricorn's website at:

<http://www.apricorn.com/ezgig>

Review the most current DriveWire FAQ's at:

<http://www.apricorn.com/support.php>



THE LEADER IN PERSONAL STORAGE

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Getting to know your DriveWire

Introduction

The DriveWire can be used to connect any 2.5" or 3.5" hard drive to your computer with a USB 2.0 interface. The adapter supports 2.5" and 3.5" IDE hard drives, as well as SATA hard drives. Perfect for technicians or anyone needing to copy or off-load files from one hard drive to another.

The Package Contains

- DriveWire Universal Drive Adapter
- USB to Mini USB cable
- AC Adapter
- Upgrade Suite CD
 - Apricorn EZ Gig IV
 - ShirtPocket SuperDuper! Lite
- Quick Start Guide



System Requirements

Hardware: Pentium CPU II or Apple G3 or later
128MBs RAM
Available USB Port
CD ROM or CD-RW drive

Supported Operating systems:

Microsoft: Windows 7, Vista, XP and 2000
Mac: OS 9.2 or later
OS X 10.2 or later

Connecting your DriveWire

1. If connecting to 3.5" IDE/PATA Hard Drives confirm device jumpers are set to master mode.

Note: See FAQs for more information about master mode

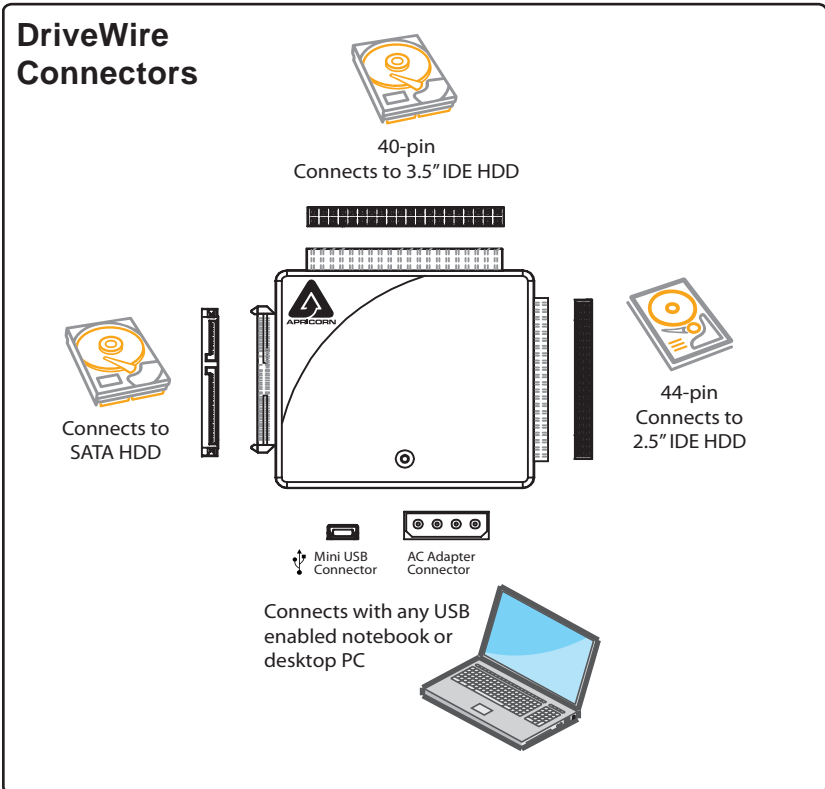
2. Connect your hard drive to the appropriate SATA or PATA connection on the DriveWire (see diagram below)

Note: When connecting PATA 2.5" or 3.5" drives to DriveWire, it is necessary to align the polarizing pins in the DriveWire's connector up with the open space on the hard drive to avoid breaking pins on the hard drive.

3. Connect the AC power adapter to DriveWire. For 3.5" PATA hard drives, plug the AC adapter directly into the hard drive.

CAUTION: Power adapter must be properly aligned to prevent damage. 

4. Connect DriveWire to your computer using the Mini USB Cable.



Before Running the Software

After many years of use, hard drives can become cluttered with unusable file fragments and other file-system errors. Most file system errors are not immediately obvious to the user, but can be identified and repaired with a few simple steps. Although the steps below are not absolutely necessary to run EZ Gig, it's best to try and clean-up disk errors BEFORE they are copied over to the new drive.

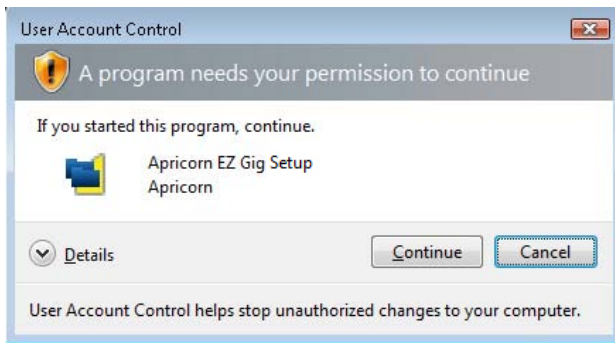
Before running EZ Gig we recommend

- 1) Clean up any file-system errors by running Windows ScanDisk (or a similar disk cleanup utility) on your internal hard drive.
- 2) Defragment your hard drive using the Windows Disk-Defragment Utility (or a similar disk defragment utility) on your internal hard drive.
- 3) Backup any critical files or data.
- 4) Attach the AC adapter to your laptop, and make sure it is not running on battery power.
- 5) Attach the USB cable from your computer to the DriveWire.
- 6) If you plan on running EZ Gig from the Bootable CD-ROM: You may need to change your laptop's BIOS boot order. You will find these options inside the laptop's BIOS Boot Option Menu. The BIOS Boot Options menu allows the user to select the preferred boot device when the laptop starts up. EZ Gig can boot directly from the CD-ROM but you must check the BIOS Boot settings to make sure that "CD-ROM" is higher in the boot order than the C: drive.

EZ Gig instructions for Windows 7 & Vista

Windows 7 and Vista User Account Control helps stop unauthorized changes to your computer. The User Account Control window pops up in Administrator Approval Mode whenever a program tries to run on your Windows system.

When the User Account Control window pops up there will be a warning symbol and message that reads, “A program needs your permission to continue.” The instructions will read “If you started this program, Continue.”



Please click the Continue button and proceed to the EZ Gig Start-Up screen.

Changing the default “Power Options”

By default the Windows 7 operating system will “Turn display off” after 20 minutes and “Put the computer to sleep” after 1 hour of keyboard or mouse inactivity. It will take more than 20 minutes to clone most of today’s larger hard drives. If the system goes into display is turned off or the computer goes to sleep during the clone, your clone may fail. This will not damage your original hard drive in any way but you will have to restart the cloning process. To avoid this issue change the default “Power Options” before starting the backup on Windows 7 Systems.

From your Window Start menu type “Power Options” in the “Start Search bar” and the “Power Options” program will be listed in the results window. Alternately you can go to Start Menu – Control Panel – Power Options. Click on “Power Options” to launch the program. On the left window click on “Choose when to turn off display” and make the changes as listed below.

| | |
|-----------------------|-------|
| Turn Display Off | Never |
| Put computer to sleep | Never |

Once you have completed the clone go to “Power Options” and restore the default settings.

Upgrade Suite (CD-ROM boot)

Upgrade Suite CD is a bootable disk with EZ Gig data transfer utility that can copy hard drives without booting to the Windows operating system. To use Upgrade Suite as a stand-alone utility, your Computer must be able to boot from a CD-ROM, and the CD-ROM must be set as the first boot device in your computer's System BIOS.

NOTE: The System BIOS controls basic hardware functions in computer, and is the first screen that appears when booting your computer (i.e. before the Windows Startup Logo appears on screen). Consult your Computer's User Manual for instructions on how to enter the System BIOS and change the boot order.

To start EZ Gig directly from the CD-ROM

- 1) Insert the Upgrade Suite CD into your CD-ROM Drive.
- 2) Turn on the Computer and go immediately into the system BIOS screen.
- 3) Set the CD-ROM as the First Boot device. Save your changes and Exit the BIOS to reboot the computer.

Helpful tip:

Some newer computers display a "Boot Options" message during startup. Pressing the boot options key allows the user to temporarily change the boot-order of the system. Use this option to boot from the CD-ROM without changing the BIOS settings. The actual keys to activate this option will depend upon the manufacturer (some BIOS use the <F12> key, others use the <ESC> key), and the boot option is only available for a few seconds at startup before the BIOS falls back into the normal boot order.

- 4) Once the BIOS is set correctly, the CD-ROM should boot-up the computer and start the EZ Gig software.

Connecting Your Hard Drive

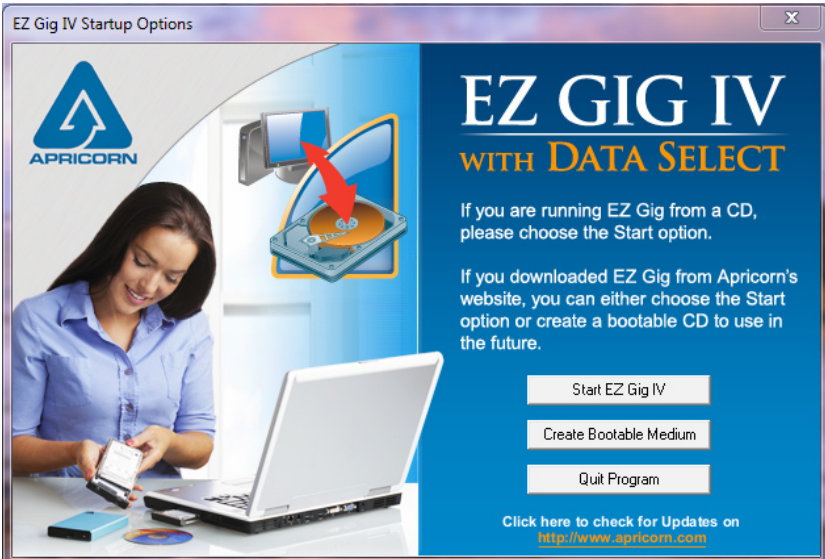
Before starting the EZ Gig software, please ensure that your new hard drive is connected to your notebook's USB port via the DriveWire. EZ Gig automatically verifies which Apricorn upgrade product is being used. If used without one of Apricorn's upgrade products, EZ Gig will not work.



EZ Gig Start Up Options

Depending on how you received EZ Gig, you have two options.

1. If you have EZ Gig on a CD, please choose the Start option (proceed to page 11 of this manual to continue).
2. If you downloaded EZ Gig from Apricorn's website, you can either choose the Start option (go to page 11) or create a bootable EZ Gig CD to use in the future (go to page 10 for instructions).



Creating a Bootable EZ Gig CD

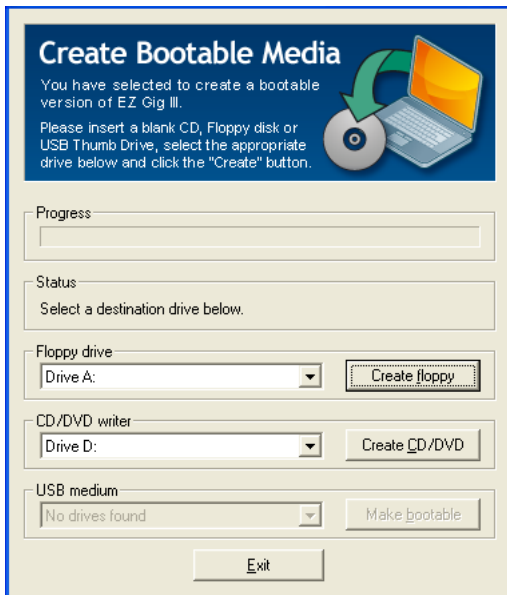
If you downloaded EZ Gig from Apricorn's website, you have the option of creating a bootable EZ Gig CD, floppy disk or thumb drive to use in the future.

To create a bootable media disk follow the appropriate directions below:

- If you want to create a bootable floppy disk, choose the desired drive at 'Floppy drive' and click "Create floppy".
- To create a bootable CD/DVD, choose the desired drive at 'CD/DVD writer' and click "Create CD/DVD".
- To create a bootable USB key, choose the desired drive at 'USB medium' and click "Make bootable".

Follow the instructions and wait until the installation program reports successful creation of the bootable medium.

Once you have created your bootable media device, click "Exit" and then choose "Start EZ Gig".



Cloning your hard drive with EZ Gig

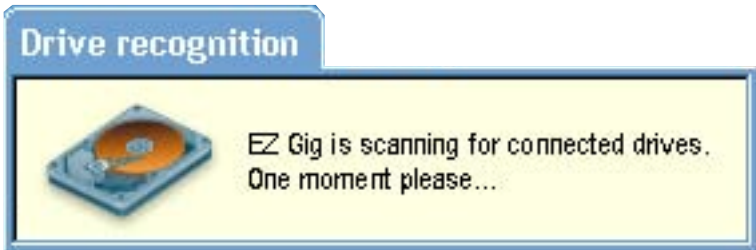
1. Click the “Let’s Get Started” button to proceed.
2. EZ Gig will then scan for connected drives. This may take a few moments.



The image shows the EZ Gig IV software interface. At the top left is the Apricorn logo. In the center, a woman is working on a laptop. To the right, the text reads "EZ GIG IV WITH DATA SELECT". Below this, there is a status table:

| | |
|-------------|----------------|
| Copy mode | Drive to drive |
| Source | Not selected |
| Destination | Not selected |
| Options | Not selected |

Below the table, the main heading is "Cloning as easy as 1-2-3". To the right of this heading is an illustration of a laptop with a green arrow pointing to an external hard drive. Below the heading, the text says: "EZ Gig enables you to copy all of your data, settings, OS and email from your computer's hard drive to an external hard drive in just three simple steps." At the bottom left, there is a blue button with the text "Let's Get Started >>" circled in red.



The image shows a "Drive recognition" screen. On the left is an icon of a hard drive. To the right of the icon, the text reads: "EZ Gig is scanning for connected drives. One moment please..."

Selecting the Source Drive

Once EZ Gig has scanned for connected drives, you will be asked to select your Source Drive. This is the drive you would like to copy from and in most cases is the internal drive in your notebook.



NOTE: Your computer's internal drive will usually be denoted by the prefix AHCI or IDE.

Select the appropriate drive from the menu and click "Next" to continue.

Copy Mode Drive to drive
Source #1 INTEL SSDSA2MH080G1GC (76,320 MB)
Destination Not selected
Options Not selected

Source Drive

Select the drive you would like to copy:

| | | |
|----------|------------|-------------------------|
| # 1: IDE | 76,320 MB | - INTEL SSDSA2MH080G1GC |
| # 2: USB | 152,628 MB | - SATA Wire |

< Back

Speed Test

Next >

Selecting the Destination Drive

Once you have selected your Source Drive, EZ Gig will ask you to select your Destination Drive. This is the drive you would like to copy to and in most cases is the external drive connected to your notebook's USB port.



NOTE: Your external drive will be denoted by the prefix USB

Select the appropriate drive from the menu and click "Next" to continue.

Copy Mode Drive to drive
Source #1 INTEL SSDSA2MH080G1GC (76,320 MB)
Destination #2 SATA Wire (152,628 MB)
Options Not selected

Destination Drive
Select the drive you would like to copy your data to:

| | | |
|----------|--------------|-------------------------|
| # 1. IDE | 76,320 MB | - INTEL SSDSA2MH080G1GC |
| C: | (unnamed) | - NTFS - 76,239 MB |
| # 2. USB | 152,628 MB | - SATA Wire |
| F: | 'Secure HDD' | - NTFS - 152,626 MB |

Speed Test

< Back Next >

Speed Test

Click the Speed Test icon on either the Source or Destination drive for an estimate of the drive's read speed.

From this estimate, a rough estimate of the clone time may be gauged

Speed Test

Drive #2 U3 Cruzer Micro (1,908 MB)

23,308 KB/s

The speed listed above is the estimated 'read' speed. The write speed depends on additional factors not available for this test.

Close

Drive Verification

You are almost ready to start your clone, but before you do, EZ Gig asks that you verify that the chosen drives are correct.

If they are you have one of two options. Either click “Next” to continue (go to page 24) or to deselect files from the cloning process, press the “Data Select” button (go to page 15).

If you need to change your drive selection, click the “Back” button

At this point you can also modify the default options for your clone using the “Advanced Options” button. Only select this option if you would like to change your options from the default (go to page 19 for more info on Advanced Options).



The screenshot shows the EZ GIG IV software interface. At the top left is the Apricorn logo. The main title is "EZ GIG IV WITH DATA SELECT". Below the title is a summary box with the following information:

| | |
|-------------|---------------------------|
| Copy mode | Drive to drive |
| Source | #1 D25S-M (244,199 MB) |
| Destination | #2 SV100S264G (61,058 MB) |
| Options | Not selected |

Below the summary box is a large blue area with the heading "You are almost ready to Clone" and a question mark icon. The text reads: "Please verify that the Source and Destination drives in the information box above are correct. The default cloning option will create a standard hard drive clone and will automatically confirm the clone is complete once finished. To change your cloning options from the default settings click the “Advanced Options” button below or click “Next” to continue." At the bottom of this area are four buttons: "< Back", "Advanced Options", "Data Select", and "Next >". To the right of the text is an illustration of a laptop and a hard drive with a green arrow pointing from the laptop to the drive.

Data Select

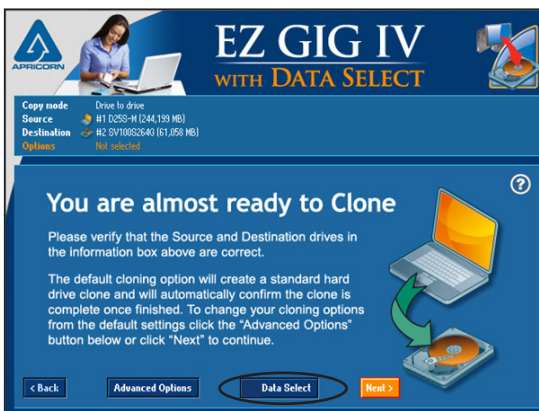
EZ Gig's Data Select feature provides a simple method to deselect data folders from the cloning process which is helpful when migrating from a large HDD to a smaller SSD and perfect for creating a Boot Disk. This gives you the option to run your OS and applications from a fast, smaller SSD boot drive, while keeping your documents and media files on your original hard drive.

There are two ways to get to the Data Select feature:

1. If the Destination drive is smaller than the Source drive, EZ Gig will direct you to the below screen. To deselect files from the clone click the "Data Select" button, this will open the Data Select feature.



2. On the "You are almost ready to Clone" screen, you may press the "Data Select" button to open the Data Select feature.



Using the Data Select feature

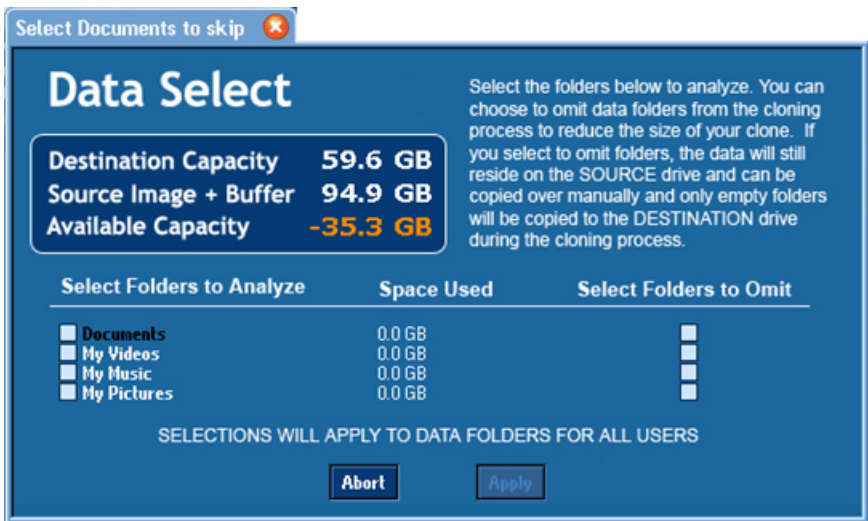
The Data Select feature shows the capacity of the:

- Destination Drive
- Source Drive
- Available Capacity

If the Source drive is smaller than the Destination drive, the available capacity will be highlighted in orange and shown as a negative value.

EZ Gig will only proceed with a clone if the available capacity is positive (i.e. the Destination capacity is larger than the Source capacity.)

In order to decrease the size of the clone (i.e. the Source image), EZ Gig enables you to deselect files from the cloning process to save space.

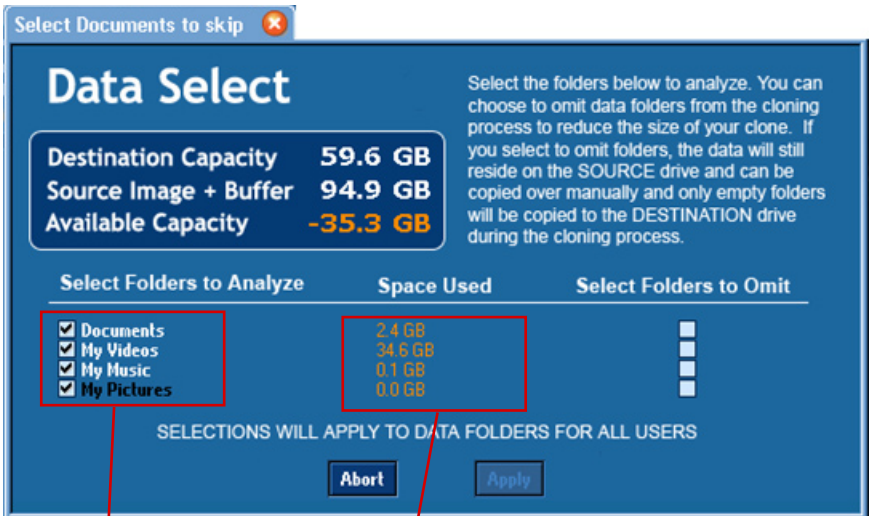


The files you may deselect from the cloning process are from the folders:

1. Documents
2. My Videos
3. My Music
4. My Pictures

Analyzing files

To analyze the amount of space used by each of the folders, select the checkbox to the left, under the “Select Folders to Analyze” column. EZ Gig will then analyze the space used in the adjoining “Space Used” column.



To analyze the amount of space used by each folder, select the appropriate checkbox.

EZ Gig will then display the space used in the adjoining column

Selecting Folders to Omit

Select Documents to skip ✖

Data Select

Destination Capacity **59.6 GB**
Source Image + Buffer **94.9 GB**
Available Capacity 1.8 GB

Select the folders below to analyze. You can choose to omit data folders from the cloning process to reduce the size of your clone. If you select to omit folders, the data will still reside on the SOURCE drive and can be copied over manually and only empty folders will be copied to the DESTINATION drive during the cloning process.

| Select Folders to Analyze | Space Used | Select Folders to Omit |
|---|------------|--------------------------|
| <input checked="" type="checkbox"/> Documents | 2.4 GB | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> My Videos | 34.6 GB | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> My Music | 0.1 GB | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> My Pictures | 0.0 GB | <input type="checkbox"/> |

SELECTIONS WILL APPLY TO DATA FOLDERS FOR ALL USERS

Abort Apply

To select folders to omit, select the checkboxes to the right, under the “Select Folders to Omit” column. Any selection from this column will automatically be reflected in an updated amount for the “Available Capacity” value. Once the “Available Capacity” value is positive, you will have the option to “Apply” the changes.

Once you hit the “Apply” button, you will be directed to the “You are almost ready to Clone” screen. The Data Select button will have a check mark to the left, indicating that you have chosen to omit files from the clone.

To continue with the clone, click the “Next” button (go to page 21).

APRICORN **EZ GIG IV WITH DATA SELECT**

Copy mode: Drive to drive
Source: #1 D:258-M (244,193 MB)
Destination: #2 SV10032640 (61,058 MB)
Options: Not selected

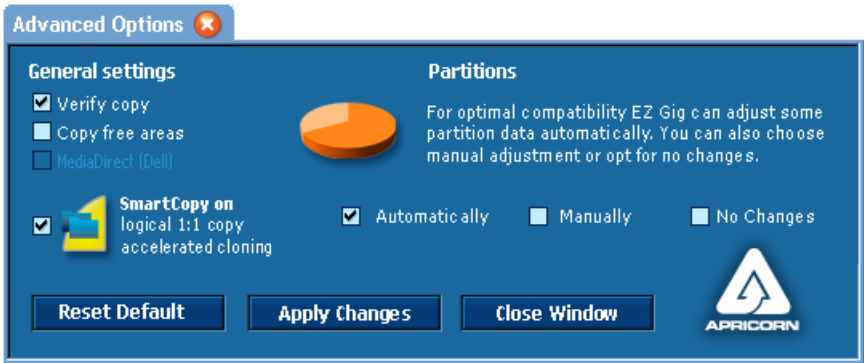
You are almost ready to Clone

Please verify that the Source and Destination drives in the information box above are correct.

The default cloning option will create a standard hard drive clone and will automatically confirm the clone is complete once finished. To change your cloning options from the default settings click the “Advanced Options” button below or click “Next” to continue.

< Back Advanced Options Data Select Next >

Advanced Options



Verify Copy

Compares the data of source and target after copying. If verify copy is chosen, the free areas between partitions will also be copied. This option has no influence on the copying performance itself, but offers the possibility to synchronize the data of the source and target after the copying process. However, the whole process of copying and verifying then normally takes approximately the double amount of time. Choose this option according to your needs of copying and your time available.

Copy Free Areas

This option is off when doing a default clone, but when selected allows you to copy free space between partitions from your internal drive to your external drive.

SmartCopy

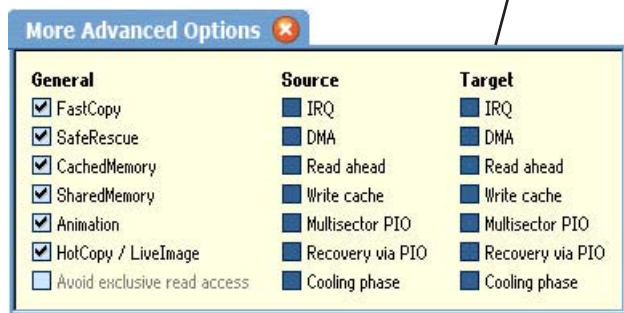
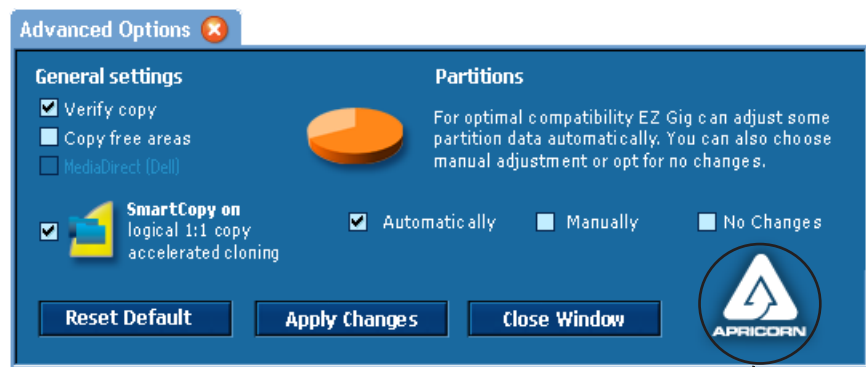
SmartCopy enables you to clone your file systems in a fraction of time usually required - this option is chosen by default

Media Direct (Dell)

Used to deactivate MediaDirect software on the Destination drive. Check your Dell notebook specs to see if you have Media Direct on your system.

More Advanced Options

To access additional advanced options, click on the Apricorn logo in the bottom right corner of the “Advanced Options” window



FastCopy

Special copy algorithm. Can increase the regular copy speed up to double.

SafeRescue

Special algorithm for data recovery. Tries to recover as large areas on the drive as possible. Can also stay turned on for normal copies.

CachedMemory

Use fast intermediate memory.

SharedMemory

Use fast data transfers.

Animation

Switch off copy animation, may lead to a slight speed increase.

HotCopy / LiveImage

Allows or denies EZ Gig access to the Windows shadow copy mechanism. If this option is deselected, EZ Gig is not able to create copies or file images of the system volume or of volumes, which are used by other programs at the same time.

Avoid exclusive read access

Usually, EZ Gig when running on Windows, at first tries to reserve the source drive for exclusive access. This is the most reliable way for creating an identical copy, but it may interfere with other programs running at the same time. If this option is selected, EZ Gig tries to create a HotCopy or a LiveImage at first.

Partitions

When used in the Default mode, EZ Gig will automatically resize your partitions according to the new hard drive space.

However, EZ Gig also gives the option of keeping your partition sizes the same or allows you to resize your partition sizes manually.

The image shows two screenshots from the EZ Gig software interface. The top screenshot is the 'Advanced Options' dialog box, specifically the 'Partitions' tab. It features a blue background and contains the following elements:

- General settings:** Includes checkboxes for 'Verify copy', 'Copy free areas', and 'MediaDirect (Dell)'. A 'SmartCopy on logical 1:1 copy accelerated cloning' icon is also present.
- Partitions:** A section with a 3D orange disk icon and text: 'For optimal compatibility EZ Gig can adjust some partition data automatically. You can also choose manual adjustment or opt for no changes.' Below this are three radio buttons: 'Automatically' (checked), 'Manually' (circled in red), and 'No Changes'.
- Buttons:** 'Reset Default', 'Apply Changes', and 'Close Window' are located at the bottom.
- Logo:** The Apricorn logo is in the bottom right corner.

The bottom screenshot is the 'Adjust Partitions' dialog box, which has a yellow background. It is titled 'You have chosen to adjust your partitions manually' and includes the following components:

- Text:** 'Adjust the existing partition size on the target drive using the bar graph below' and 'Change partition sizes by clicking and dragging or with cursor keys and [+] / [-]'.
- Bar Graph:** A horizontal bar graph with two segments labeled '1' and '2'. Segment 1 is dark green, and segment 2 is light green.
- Partition 1 Details:** A box containing: Type: used, Size: 140416 MB, File system: NTFS, Name: Preload.
- Legend:** A box with four items: a dark green square for 'original file system', a light green square for 'file system extension', a black square for 'immutable partition', and a white square for 'free space'.
- Buttons:** 'Apply Adjustment' and 'Cancel' are at the bottom.

A red line connects the 'Manually' radio button in the top screenshot to the 'Adjust Partitions' dialog box in the bottom screenshot.

Resizing your partitions manually

To resize your partition manually:

1. Choose the “Manually” radio button on the “Advanced Options” window.
2. Once this radio button is selected, click the “Apply Changes” button. The “Adjust Partitions” window (shown left) will pop up.

Positions and sizes of the partitions to be copied to the Destination drive are displayed graphically in a bar. The original size of the partition is displayed in dark green, while the additionally assigned space is displayed in light green. The size of partitions displayed in black cannot be altered. Free space not yet assigned to any partition is displayed in white.

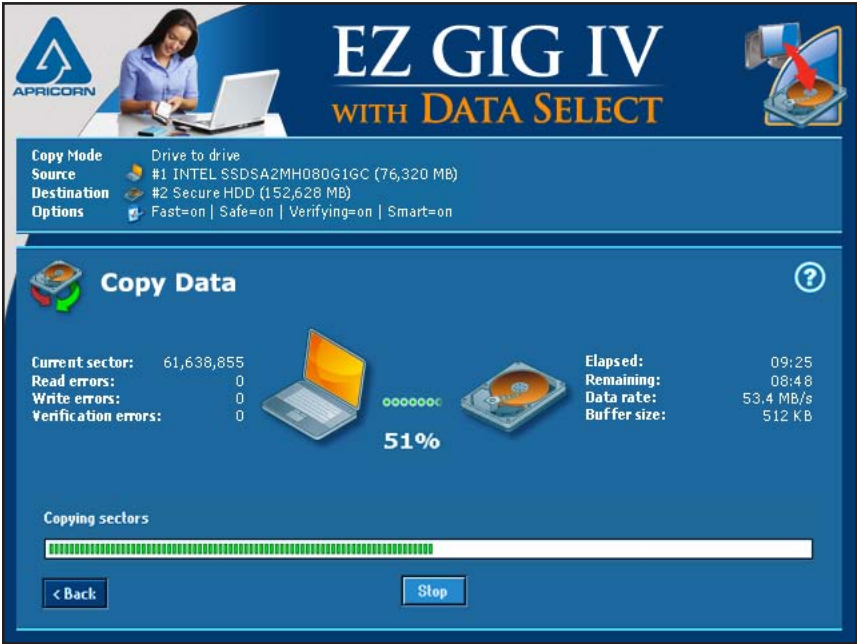
3. To resize, click the desired partition's extended space (light green portion) and drag with your mouse. You can also use the [+] and [-] cursor keys to the same effect.
4. Once you have resized the partitions to the desired size, choose “Apply Adjustment” which will then close the window.
5. Once the “Adjust Partition” window is closed, close the “Advanced Options” window by clicking the “Close Window” button.

Start Clone

Now you're ready!

Press the “Start Clone” button to start the cloning process.

EZ Gig will keep you up-to-date with the status of the clone throughout the entire process with a progress bar and percentage completed. Depending on your system size a clone can take anywhere from several minutes to a couple of hours.



Interrupting the Cloning Process

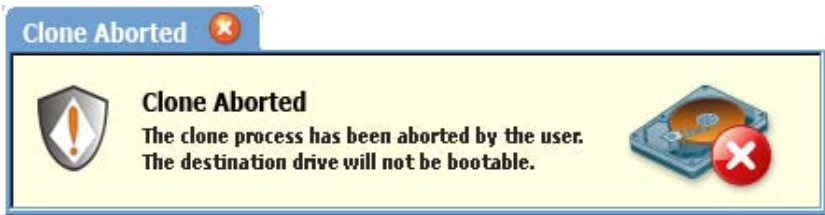
The cloning process can be stopped at anytime using the “Stop” button. Continue cloning by clicking “Continue copying”. To stop the clone completely, select “Abort copying.”



Aborting the Cloning Process



If the cloning process aborted, a new clone must be commenced.



Interrupting the Verification process

If you chose the “Verify Copy” option before starting the clone, EZ Gig will automatically compare the information on the “Source” and “Destination” drives once the clone is complete. If this process is interrupted or stopped at anytime, the aborted verification run will have no influence on the copied data. The copy itself is already finished at that point of time.

When the final report is read, EZ Gig will report that the clone is only partially verified.

Congratulations your Clone is Complete

Once your clone is complete, EZ Gig will let you know with a pop up window. To get a report of the cloning process, click the “Details” button.

Copy Mode
Source Drive to drive
Destination #1 INTEL SSDS
Options #2 Secure HDD
Fast-on | Safe=

Copy Data

Current sector: 61,638,855
Read errors: 0
Write errors: 0
Verification errors: 0

Copying sectors

09:25
08:48
53.4 MB/s
512 KB

Clone Complete! (MB)

✓ Congratulations!

Your Clone was Completed Successfully!

A complete copy has been created
The copy has been verified
The target drive has been adjusted automatically

Please remove the Destination drive before restarting your computer

Another copy Quit EZ Gig **Details**

Final report

**A complete copy has been created.
The copy has been verified.**

Source
Disk: #1 SAMSUNG CF/ATA (31 MB)

Destination
Disk: #4 FIREBALL1280S (1,222 MB)
Partition: #1 FAT16 primary (30 MB)

Sectors copied: 63,456
Read errors: 0
Write errors: 0
Verification errors: 0
Elapsed: 00:49

Another copy Quit EZ Gig

The final report will outline the number of sector copied, read errors, write errors and if verified, will also report verification errors.

Once you have finished your clone, click “Quit EZ Gig”. You will then be prompted to turn your computer off and disconnect the attached hard drive.

SuperDuper! Backup Software for Mac

1. Insert Apricorn CD into your CD-ROM drive
2. When the Apricorn CD appears on your desktop, double click to open.
3. Double click on the **SuperDuper!.dmg** icon
4. This will open the package and mount a drive on your desktop.
5. Open this drive by clicking on the newly created disk icon. The below window will open on your screen.



6. To install **SuperDuper!** drag **SuperDuper!** icon to Applications and run.
7. Follow the instructions included on the SuperDuper! User's Guide to setup.

After the Clone

Once the transfer is complete, you are ready to install your new hard drive.

Turn off the laptop and disconnect the DriveWire with hard drive. Disconnect the Laptop's AC adapter, and remove the laptop battery to reduce the risk of damage or electrical shock.

Consult the Computer's User Manual for instructions on how to remove the original hard drive from your computer. Some laptops may have the disk drive mounted under a cover. Other laptops may have the original drive mounted inside a "drive caddy" to allow quick removal of the drive from the laptop (although it might appear that the drive caddy and the DriveWire drive are not the same, once you open-up the drive caddy you will find an identical hard drive inside). If the hard drive is mounted inside a drive caddy, carefully remove the hard drive from the caddy. Be careful not to damage the hard drive pins or any custom connectors. The hard drive may have a connector covering the pins. Please take note of all connectors and their orientation.

Remove the original drive and replace it with the new one. If the laptop drive is mounted inside a caddy, install the new drive into the caddy and then insert the assembled caddy back into the computer. For specific instructions, please refer to your computer's User Manual or manufactures' web site.

Boot the laptop from your new hard drive. The new hard drive should boot up as though it was the old drive.

Using the DriveWire as a external backup drive



WARNING: Formatting a Hard Drive will erase everything on the drive! Please do not reformat the original drive until you have verified that your new drive is working properly.

After successfully copying everything over to your new drive, the DriveWire with old hard drive can be used as an external USB backup drive. At this point we recommend that you wait until you are certain that your new hard drive is working properly. When you are certain that your system is working properly, follow these basic steps listed below to use the DriveWire with old drive as a backup drive.

1. Install the old hard drive into the DriveWire. (Please refer to Page 5 for hard drive installation instructions.)
2. Connect the DriveWire to your system.
3. Reformat the old hard drive (See FAQ #4 on page 26 of this manual for a link to the Microsoft website with complete instructions for both XP, Vista & 7)
4. Follow instructions in the appropriate section of this manual for cloning to create a full bootable backup or just use as an external storage device.

Device Removal (Windows)

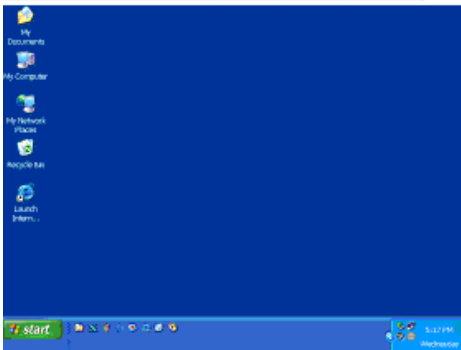
Windows 2000, XP, Vista and 7

- 1) Locate the system tray on your Windows Desktop (the system tray is the part of the taskbar that displays the date and time).
- 2) Click on the “Safely Remove Hardware” icon  (2000, XP)  or (Vista, 7) in the system tray. A dialog box will appear.



Please note that in Windows Vista and 7 the “Safely Remove Hardware” icon is different.

- 3) Click ‘Safely Remove Mass Storage Device – Drive (D:) in the dialog box. (Your drive letter may differ).
- 4) Wait for few seconds until the system prompts ‘The hard disk storage device can now be safely removed from the system.’ Click OK, and then unplug the DriveWire.



The “Safely Remove Hardware” button is located in the System Tray near the time clock



NOTE: To protect against unexpected data loss, Windows checks that all files on the disk are closed before allowing the USB device to be removed. If you receive an error message that says *“The device cannot be stopped right now. Try stopping the device again later.”* Close all Windows and Programs that are using files from the Drive, then repeat the procedure.

DriveWire FAQs

1. Why does my new drive or connector look different from my old drive or connector?

The first thing you need to do is to determine if you bought the right drive. There are now two standards for 2.5" laptop hard drives, Serial ATA (SATA) and Parallel ATA (PATA). Check with your manufacturer for the drive specifications and compare it to the specifications on the drive you purchased. All SATA drive connectors should look exactly the same. Use Apricorn's hard drive configurator at www.apricorn.com to make sure you are getting the correct drive for your laptop or notebook computer.

The most frequent question about hard drive connectors involve PATA hard drives. If your laptop uses a PATA hard drive, it may have a translation board or adapter on the connector. All 2.5" laptop PATA hard drives use the same type of connector (male 44 pins). Laptop manufacturers may use a translation board or adapter to connect the drive to the computer. This adapter can be removed and placed on the new drive. It will look like it is actually part of the old drive, but it can be removed.

Removing the translation board or adapter

Take the old drive and turn it upside down so the board is face up and the connector end is away from you, using your fingernail or fingertips, work the one side of the connector up slightly and then the other. Be patient you want to make gradual progress until you start to see the gold pins (between the drive and the connector), at that point you can pull the connector "straight" off the end of the pins. Once you have removed it, you can then place it carefully onto the new drive in the same location. Please note: there are 4 pins separated by 1 pin space and those 4 pins will not be covered by the adapter or connector.

2. What is Serial ATA (SATA)?

Serial ATA is the next generation interface for the high-speed transfer of data in PCs, workstations, and laptops. SATA allows an increase in bandwidth from PATA's 100 MBps to 150 MBps and higher down the road. SATA cable connectors are much smaller than PATA connectors and have no pins to be bent or broken. SATA connectors are more stable and require very little pressure to attach the hard drive making them much easier to use than PATA connectors. If your laptop requires a SATA hard drive you must replace it with a SATA hard drive. Use Apricorn's hard drive configurator at www.apricorn.com to make sure you are getting the correct drive for your laptop or notebook computer.

3. How do I format my drive?

For Windows 2000 and XP cut & paste or type the URL below into your Internet browser or click the link below:

<http://support.microsoft.com/?kbid=313348>

For Windows Vista & 7 cut & paste or type the URL below into your Internet browser or click the link below:

<http://windows.microsoft.com/en-US/windows7/Create-and-format-a-hard-disk-partition>

4. What is USB 2.0?

USB 2.0 represents the next generation of PC peripherals and connectivity. USB 2.0 is the first major evolution of the Universal Serial Bus standard, which was originally designed to bring low cost connections and “plug-and-play” consumer devices to the PC world. USB 2.0 adds new functionality to your laptop, by allowing faster connections and greater flexibility without the need for upgrading your existing USB devices.

5. Why USB 2.0?

Modern PC peripherals can run faster and do more than the original USB designers ever dreamed. The USB standard was upgraded to keep pace with the rapid advances in technology, and the explosion of new consumer devices. USB 2.0 host controllers add the faster speeds and greater flexibility than these new devices require. USB 2.0 will allow your computer to connect to the newest USB devices: High-Speed Video and Ethernet, ultra-fast scanners and disk drives, etc.

6. How much faster is USB 2.0?

USB 1.1 devices can communicate at about 12 Megabits/sec. USB 2.0 devices can communicate at speeds of up to 480 Megabits/sec.

7. The DriveWire is connected, but the drive is not automatically detected by the operating system.

The mass storage device drivers are not installed correctly or there is a resource conflict in the system. Use the Windows Add New Hardware Wizard to detect the drive, or, if the drive has already been installed, use the Windows Update Device Driver Wizard. Be sure that there are no resource conflicts in the Windows Device Manager before installing the drive.

8. What software is included with my DriveWire?

PC Software Includes: EZ Gig IV with Data Select

EZ Gig for Windows is one of the most powerful yet easy to use back-up utilities available. EZ Gig IV is the fourth generation of the award winning EZ Gig Data Transfer Utility.

MAC Software Includes: ShirtPocket SuperDuper! for Mac

SuperDuper! is the wildly acclaimed program that makes recovery painless, because it makes creating a fully bootable backup painless. Its incredibly clear, friendly interface is understandable, easy to use. And it runs beautifully on both Intel and Power PC Macs! SuperDuper's interface confirms all your actions in simple, clear language to ensure that the end result is exactly what you intended.

9. Can I make a clone of my drive and put it in a different machine?

A clone is for disaster recovery purposes (i.e. when your drive fails and you need to get back up and running). You should not make a clone of your drive and put it in another or multiple machines. There are licensing issues for the software on your machine.

10. Is it possible to restore a single file from the clone stored on my old drive?

Yes. EZ Gig allows you to mount an image as a "virtual" hard drive. You can access this "virtual" drive as if it were a physical hard drive. You would use your **Windows Explorer** or **My Computer** and copy the file or folder and paste it on to your hard drive.

11. I am unable to format my 80GB or larger DriveWire with FAT 32 in Windows 2000 or XP?

Windows 2000 and XP limit a FAT32 partition to 32GB. If you choose to format the drive in a larger partition, you will need to use the NTFS file system.

12. Can I boot Windows to my USB Device?

No. Because of limitations (both hardware and software) Windows is currently prevented from booting and running off a USB drive.

13. What is master mode?

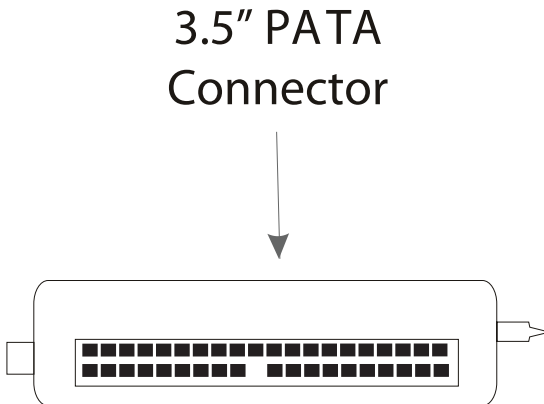
Master mode is a jumper setting that only applies to 3.5" IDE/PATA hard drive or CD/DVD Optical Drives and determines which hard drive or CD/DVD optical drive is the main boot device on the primary ATA bus, or if it is to be the master device on the secondary ATA bus of an enhanced ATA controller.

14. How do I set my hard drive to master mode?

Setting your hard drive to master mode will vary from one hard drive manufacturer to another. In most cases there will be a diagram on top of your hard drive that shows the location and proper settings to configure the drive as the Master. If it is not obvious, please refer to the manufacturers support website for more information.

15. Why can't I connect my 2.5 or 3.5 hard drive?

When connecting PATA 2.5" or 3.5" drives to DriveWire, it is necessary to align the polarizing pins in the DriveWire's connector up with the open space on the hard drive to avoid breaking pins on the hard drive.



EZ Gig FAQs

The below FAQs refer to cloning your hard drive with EZ Gig only. For information on issues using Shirt Pocket SuperDuper! software for Mac, please go the ShirtPocket's website at www.ShirtPocket.com

Load errors

During the start of the program, before EZ Gig is loaded itself, a message and a progress bar will appear on the boot screen. In case of an error, one of the following error codes will be indicated here.

Error #5002 and 'Disk error'

This error will be displayed if the boot medium is not readable when booting the program. The error is reported by the BIOS of the computer and points to a defective data carrier or a problem with the used boot drive. In many cases, in particular when booting from a floppy disk, an incompatibility between drive and data carrier is the cause. Principally this problem can be fixed. Please try the following steps, at best in the indicated order:

- Try again to boot the program, perhaps with/without cold start.
- Create once again a bootable disk (page 10).
- Floppy disk: format the floppy disk (no quick format) before creating a new one.
- Floppy disk: use another floppy disk.
- Use (if possible) another boot drive.

NOTE: If you didn't receive EZ Gig as an installation package but on a bootable disk and if a disk shows this problems also after multiple trials on different devices, please contact Support.

Keyboard and mouse

EZ Gig supports keyboards and mice with PS/2 standard or USB connector. This also includes many wireless mice, given they are connected as a true USB device. Input devices connected with Bluetooth are currently not supported. In this case, please connect a separate USB device. If keyboard or mouse (or both) do not function with EZ Gig, this is usually due to a wrong legacy emulation setting in BIOS setup. On most computers, you can fix this problem by changing (activating or deactivating, depending on the current setting) the emulation for PS/2 devices in BIOS

setup. Please consult your computer manual on how to change this setting since it may be named differently according to the respective BIOS. In most of the cases, you can find it under the name USB Legacy Support or USB Keyboard Support (often under Integrated Peripherals or Advanced Options).

NOTE: In some of the cases, problems with the PS/2 keyboard and/or mouse occurred with an activated emulation for PS/2 devices. If you do not use any USB input de-vices, please switch off the PS/2 emulation in the BIOS setup.

General problems

Slowed down system

If you think the speed of the total system or the copying speed – also with IDE and SCSI devices – is too slow, a USB controller can be the cause, even if it is not used.

Read, write and verification errors

If EZ Gig reports errors, these are usually defective areas on the respective medium. However, general problems with the hardware can possibly also cause (putative) read and write errors. This is mostly noticeable by a very high number of displayed errors. First of all, try to fix the problem via the help instructions for the respective hardware types (IDE, SCSI, USB) because the causes are usually found there. If the problems cannot be fixed this way either, deactivate step by step the following options, at best in the indicated order:

- CachedMemory
- Read cache and write cache
- FastCopy
- DMA
- SharedMemory

If the problem does not occur any more after having deactivated a certain option, the previously deactivated options can be reactivated as a test.

IDE/ATA/SATA

Hard disk not recognized

If EZ Gig does not recognize a hard disk, there can be several reasons. Perhaps the controller which the disk is connected to has not been found (See next section: IDE controller not found). A further possible reason can be a non-standardly connected hard disk. This is for example the case if

a hard disk is configured as slave and if a CD/DVD drive or no drive at all is connected at the same IDE channel as master. Normally, EZ Gig can handle that, too.

NOTE: If an SATA hard disk is not recognized, this can also be due to the used SATA controller.

IDE controller not found

There are the following three reasons why EZ Gig has not automatically recognized an IDE controller:

- The IDE controller/channel is deactivated, e.g. on an onboard IDE controller. Activate the IDE controller/channel via the BIOS setup.
- Standard IDE controllers (ISA) are not taken into account if PCI IDE controllers are available. Connect the respective hard disk to a PCI IDE controller in this case or deactivate the PCI IDE controller or controllers.
- The used controller does not correspond to the PCI IDE standard. Although most controllers support this standardized programming interface, there are some controllers which have only a proprietary programming interface. Connect the corresponding drives to another controller (PCI IDE controller).

Source & Destination Size Differences

Equal Size

If source and target are of the same size, EZ Gig creates an absolutely identical copy(clone). On this clone, all sectors on source and target, from the first to the last sector, are 100% identical, provided that the process was error-free.

Small to large

If the source is smaller than the target, EZ Gig copies only the data that is available on the source. This data is copied from the beginning of the source onto the beginning of the target medium. The area at the end of the target medium, which is larger than the source, remains unaffected. Apart from that the unaffected area remains possibly unused during a later usage, such a copy is usually comparable to a real clone as far as the capacity of use is concerned because the target contains entirely all data of the source

Large to small

If the source is bigger than the target, EZ Gig will direct you to the Data Select feature. EZ Gig's Data Select provides a simple method to deselect data folders from the cloning process. EZ Gig will only allow to proceed with the clone, once the available capacity on the target drive is a positive value.

Automatic troubleshooting

In case of occurring errors, EZ Gig tries to troubleshoot them the best possible. If this is not possible, the errors will be mentioned in a corresponding error statistic in the detailed report after the clone is complete.

Intensive reading/writing

In case of read or write errors, EZ Gig uses different strategies in order to still be able to read or write this data, if possible. The time used for defective areas depends to a large extent on the respective medium. According to the medium and its state, several seconds up to minutes can be needed for the recovery trials. Therefore, it is recommended to always activate the option SafeRescue because then handling defective sectors takes place after the copying of all intact areas has been finished. The process can then be aborted if it takes too long without losing the data of the intact areas.

Read errors

During the copying process, read errors can only occur on the source medium. EZ Gig then tries to read the defective areas immediately after the termination of the copying process (with the option SafeRescue) with the help of special data recovery strategies within a single troubleshooting run. During the troubleshooting run, the number of the indicated read errors can reduce according to the areas on the source medium, which could be recovered.

NOTE: Read errors, that occur during the verification run, are not counted as read errors but as verification errors.

Write errors

Write errors can only occur during the copying process and only on the target medium. EZ Gig then tries to read the defective areas immediately after the termination of the copying process (with the option SafeRescue) with the help of special data recovery strategies within a proper troubleshooting run. During the troubleshooting run, the number of the indicated write errors can decrease according to the areas on the target medium, which could be recovered.

Verification errors

When the option Verifying is activated, EZ Gig executes a verification run after the copying process. A verification error is counted if the data of two sectors on source and target do not correspond. Furthermore, read errors, which occur during the verification run in one or both of the areas to be compared, are also counted as verification errors. Therefore, the number of verification errors gives you absolute information on how exactly source and target correspond to each other after the copying process. In case of an error-free copying process, EZ Gig should not report any verification errors and signalize a 100% conformity of source and target.

Contacting Technical Support

Apricorn provides the following helpful resources for you:

1. DriveWire User's Guide and Quick Start Guide
2. Apricorn's Website (<http://www.apricorn.com>)

This gives you the ability to check for up-to-date information.

3. E-mail us at support@apricorn.com.
4. Or call the Technical Support Department at 1-800-458-5448.

Apricorn's Technical Support Specialists are available from 8:00 a.m. to 5:00 p.m., Pacific Standard Time from Monday through Friday.

RMA Policy

An RMA (Return Merchandise Authorization) tracking number must be issued by Apricorn. If you need to return or replace your upgrade kit, Apricorn requires that you perform the following steps:

1. Find your original receipt.
2. Simply call Apricorn's technical support department with your upgrade kit part number and a description of the problem(s) you are experiencing.
3. If the Apricorn representative finds cause for a return, they will issue an RMA number. Please write this number down.
4. Fill out an RMA authorization form with your package. The RMA form is available on-line at <http://www.apricorn.com/support/rma.php>.
5. Please send the prepaid package including RMA form and receipt to the following address, make sure the RMA# is written on the exterior of the package:

Apricorn

RMA#: _____

12191 Kirkham Road

Poway, CA 92064

The purchaser shall be responsible for any loss or damage to the returned product until it is received by Apricorn. Purchaser should consider obtaining insurance with respect to shipping the product.

Warranty Conditions

Warranty:

Apricorn offers a 1 year warranty on DriveWire against defects in materials and workmanship under normal use. The warranty period is effective from the date of purchase (validated by your original receipt) either directly from Apricorn or an authorized reseller.

Disclaimer and terms of the warranties:

THE WARRANTY BECOMES EFFECTIVE ON THE DATE OF PURCHASE AND MUST BE VERIFIED WITH YOUR SALES RECEIPT OR INVOICE DISPLAYING THE DATE OF PRODUCT PURCHASE.

APRICORN WILL, AT NO ADDITIONAL CHARGE, REPAIR OR REPLACE DEFECTIVE PARTS WITH NEW PARTS OR SERVICEABLE USED PARTS THAT ARE EQUIVALENT TO NEW IN PERFORMANCE. ALL EXCHANGED PARTS AND PRODUCTS REPLACED UNDER THIS WARRANTY WILL BECOME THE PROPERTY OF APRICORN.

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