

1.8" Solid State Drive

User's Manual



Table of Contents

Introduction 	3
Package Contents 	3
Features 	4
System Requirements 	4
Safety Precautions 	4
■ General Use	4
■ Setup	4
■ Backing Up Data	4
■ Reminders	5
Product Overview 	6
Connecting to a Computer 	7
■ Windows® 2000/XP	7
■ Windows Vista®	9
■ Mac® OS	10
■ Linux®	11
Disconnecting from a Computer 	12
■ Windows® 2000, XP and VISTA (USB)	12
■ Windows® 2000, XP and VISTA (eSATA)	12
■ Mac® OS 9.0, or Later (USB & eSATA)	14
■ Linux® Kernel 2.4, or Later (USB)	14
Formatting the SSD 	15
■ Windows® 2000/XP	15
■ Windows Vista®	16
■ Mac® OS	18
■ Linux®	20
Troubleshooting 	22
Specifications 	23
Ordering Information 	23
Transcend Limited Warranty 	24

Introduction |

Congratulations on purchasing Transcend's 1.8" Solid State Drive (SSD). This extremely portable eSATA / USB 2.0 external storage device is the perfect way to add a reliable extra hard drive to your computer for downloading, backing up, and transporting your data. With both eSATA and USB 2.0 connection options, the SSD18M gives you the ultimate in flexibility. The USB interface provides maximum compatibility with all types of notebooks and PCs, while the new high-speed eSATA interface gives you the maximum performance possible from your SSD with transfer speeds up to 90MB/s. This User's Manual can help you can get the most from your new device. Please read it in detail before using the SSD.

Package Contents |

The 1.8" Solid State Drive package includes the following items:

■ SSD18M



■ USB Y-Cable



■ eSATA Cable



■ Quick Start Guide



Features |

- Built-in 1.8" high-speed solid state drive
- Slim, lightweight, pocket-friendly size
- Faster and more durable than 1.8"/2.5" hard drives
- Two connection options: eSATA or USB2.0:
 - eSATA for maximum performance
 - USB2.0 interface assures universal compatibility
- Shock and vibration resistant
- LED indicator light

System Requirements |

- Desktop or notebook computer with a working eSATA or USB port.
- One of the following operating systems:
 - Windows® 2000
 - Windows® XP
 - Windows Vista®
 - Mac® OS 9.0, or later (USB only)
 - Mac® OS 10.4, or later (eSATA)
 - Linux® Kernel 2.4, or later (USB only)

Safety Precautions |

These usage and safety guidelines are **IMPORTANT!** Please follow them carefully.

■ General Use

- Unpack the contents of the SSD package carefully.
- Avoid exposing your SSD to extreme temperatures above 70°C or below 0°C during operation.
- Never drop your SSD.
- Never allow your SSD to come in contact with water or any other liquids.
- Never use a damp/wet cloth to wipe or clean the exterior case.
- Do not use or store your SSD in any of the listed environments:
 - Direct sunlight
 - Next to an air conditioner, electric heater or other heat sources
 - In a closed car that is in direct sunlight

■ Setup

- The supplied eSATA cable only works in eSATA ports and will not connect directly to your PC's internal motherboard SATA connector.
- Whether connecting via eSATA or USB, the SSD requires power from an extra USB port on your computer.

■ Backing Up Data

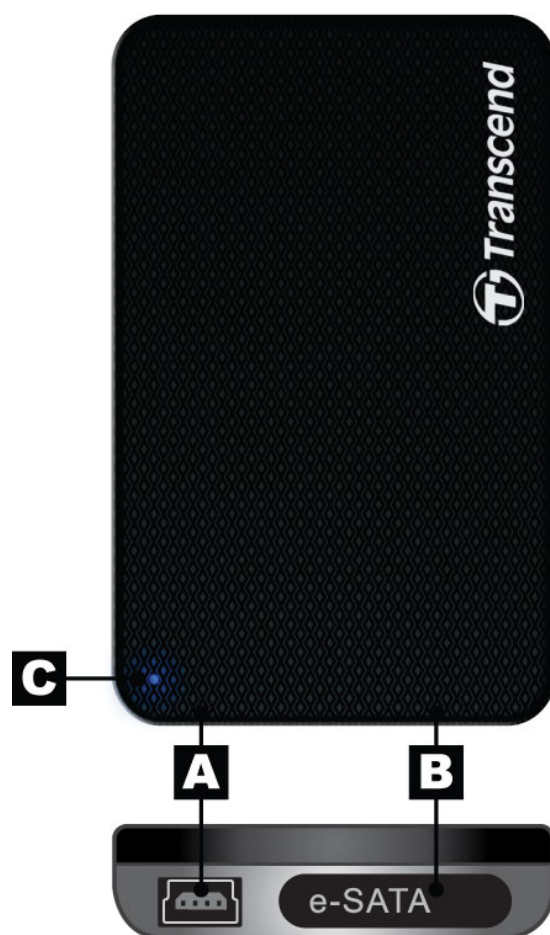
- **Transcend does NOT take any responsibility for data loss or damage during operation.** If you

decide to store data on your SSD we strongly advise that you regularly backup the data to a computer, or other storage medium.

- To ensure eSATA / High-Speed USB 2.0 data transfer rates when using your SSD with a computer, please check the computer has the relevant eSATA / USB drivers. If you are unsure on how to check this, please consult your computer or motherboard User's Manual for eSATA or USB driver information.

■ Reminders

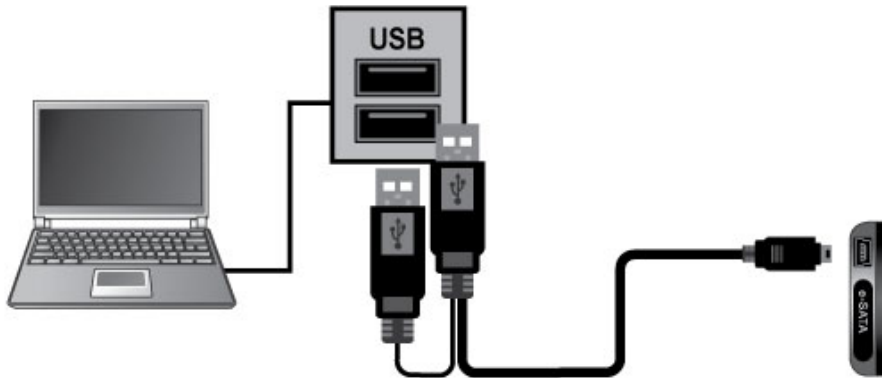
Always follow the procedures in the “**Disconnecting from a Computer**” section to remove your SSD from a computer.



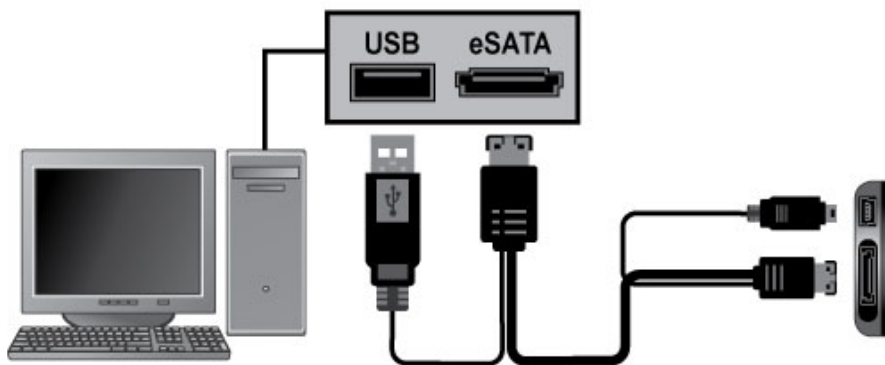
A	USB Port
B	eSATA Port
C	LED Indicator Light

Connecting to a Computer |

The SSD can be connected to your computer in two ways: **USB 2.0** or **eSATA**. To get the best performance results from your SSD, we strongly recommend using the eSATA interface. If your computer does not have an eSATA port, you may need to purchase an SATA to eSATA adapter bracket (often included in PC motherboard packaging) or a PCI / PCI-X / PCI-Express eSATA card to connect your SSD using eSATA. Otherwise, you can simply connect the SSD via USB.



Connecting to Notebook or PC using USB



Connecting to a PC using eSATA

■ Windows® 2000/XP

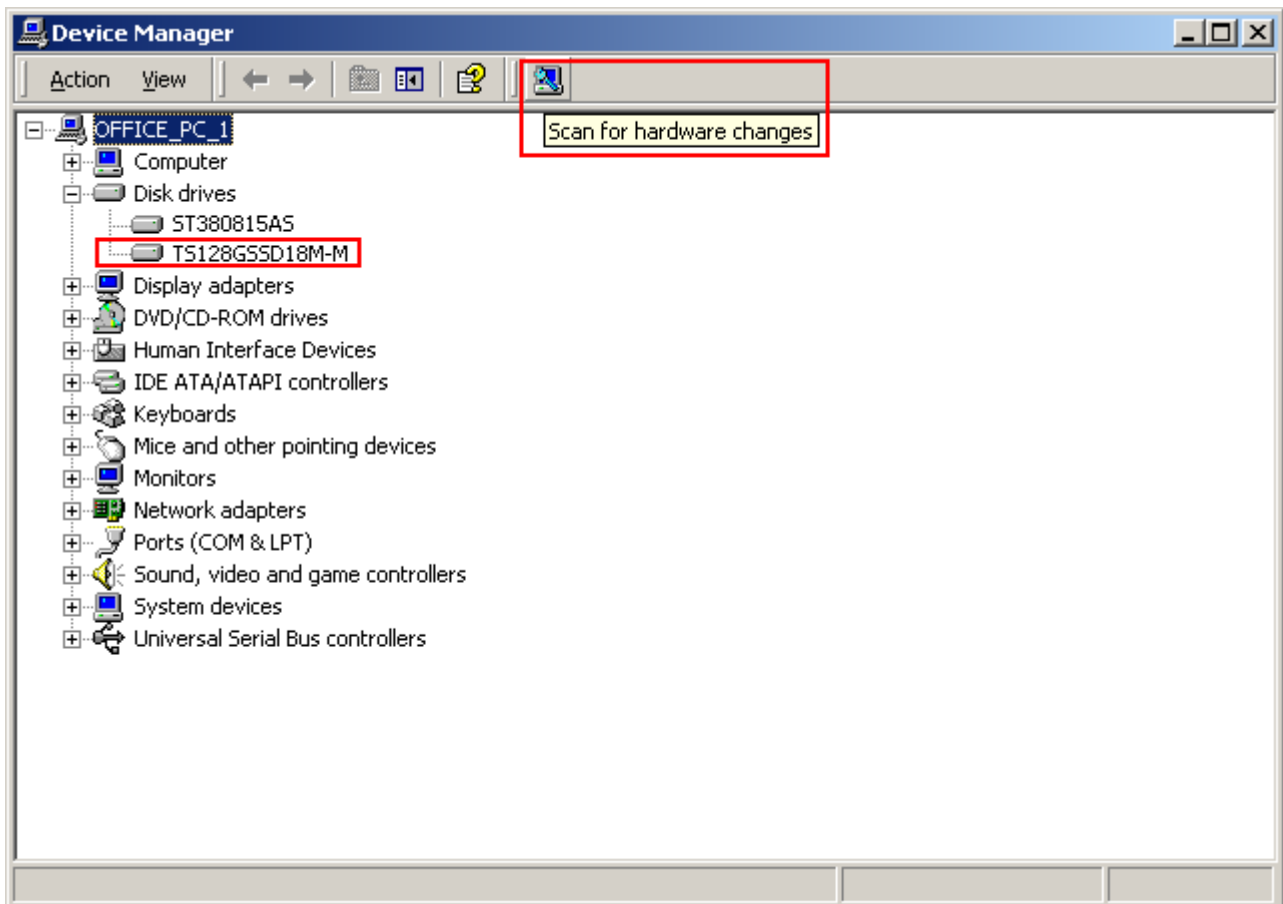
1. Connect the SSD to your computer:

– eSATA –

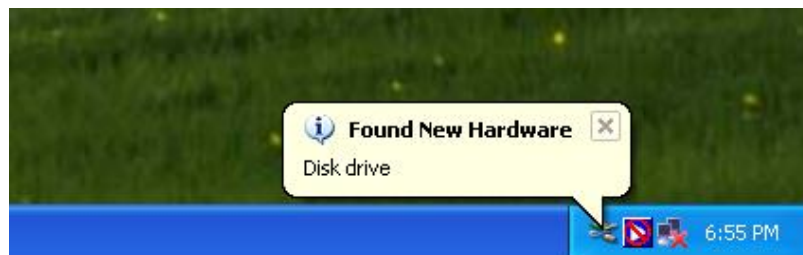
- A. Plug both the eSATA and mini USB ends of the eSATA cable into the SSD.
- B. Connect the large USB connector on the other end of the cable to a working USB port on your desktop computer. The SSD requires this connection to ensure adequate power.
- C. Plug the other eSATA connector into your computer's eSATA port (usually on the back of the computer)

– USB –

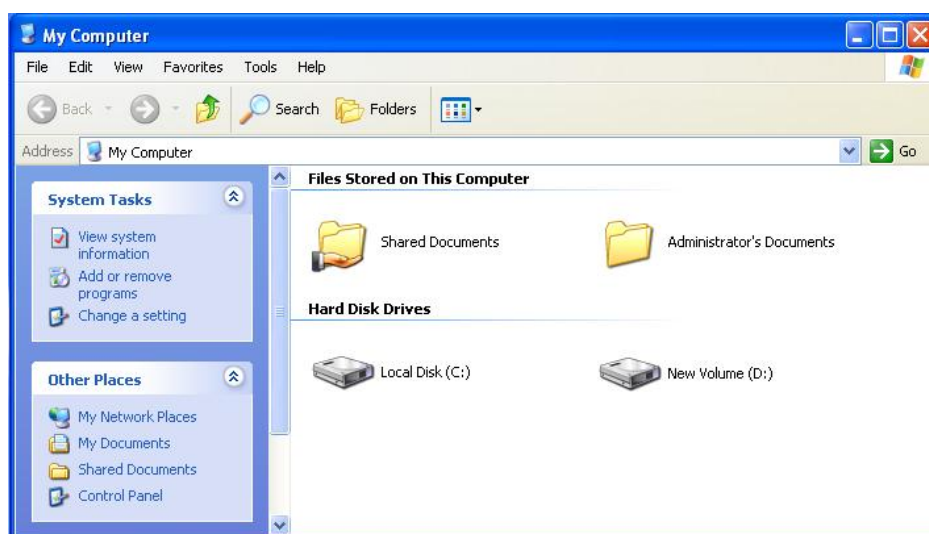
- A. Plug both large ends of the USB Y-cable into available USB ports on your desktop computer or notebook.
 - B. Plug the small end of the cable into the mini USB port on the SSD.
2. When the SSD is successfully connected to a computer, Windows will automatically detect and install drivers for it. If you connected via eSATA and Windows does not auto-detect the SSD, you may have to enter the Device Manager and select "**Scan for Hardware Changes.**"



When connecting with eSATA, use the Device Manager to scan for the SSD if Windows does not auto-detect it.



3. A new **Local Disk** with a newly assigned drive letter representing the SSD will automatically appear in the **My Computer** window under "Hard Disk Drives."



Note: the drive name and letter in your "My Computer" window may differ

■ Windows Vista®

1. Connect the SSD to your computer:

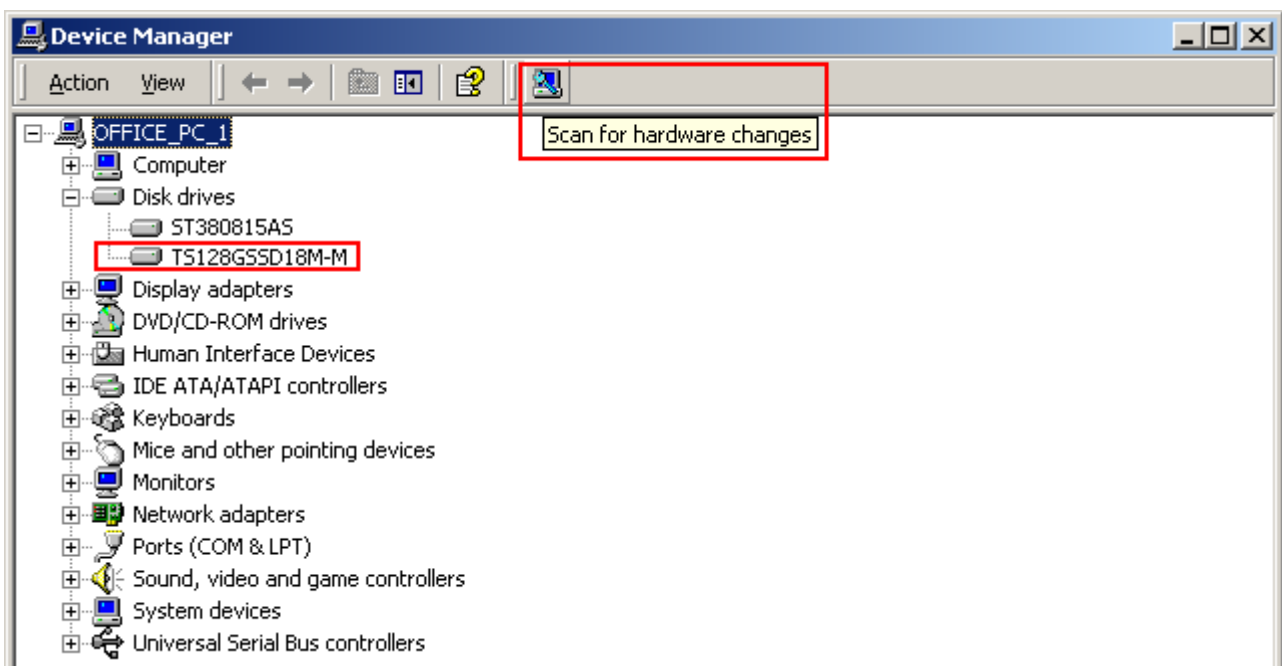
– eSATA –

- Plug both the eSATA and mini USB ends of the eSATA cable into the SSD.
- Connect the large USB connector on the other end of the cable to a working USB port on your desktop computer. The SSD requires this connection to ensure adequate power.
- Plug the other eSATA connector into your computer's eSATA port (usually on the back of the computer).

– USB –

- Plug both large ends of the USB Y-cable into available USB ports on your desktop computer or notebook.
- Plug the small end of the cable into the mini USB port on the SSD.

2. When the SSD is successfully connected to a computer, Windows will automatically detect and install drivers for it. If you connected via eSATA and Windows does not auto-detect the SSD, you may have to enter the Device Manager and select “**Scan for Hardware Changes.**”



When connecting with eSATA, use the Device Manager to scan for the SSD if Windows does not auto-detect it.



3. A new **Local Disk** with a newly assigned drive letter representing the SSD will automatically appear in the **My Computer** window under “Hard Disk Drives.”



Note: the drive name and letter in your "AutoPlay" window may differ

■ Mac® OS

1. Connect the SSD to your computer:

– eSATA –

- A. Plug both the eSATA and mini USB ends of the eSATA cable into the SSD.
- B. Connect the large USB connector on the other end of the cable to a working USB port on your desktop computer. The SSD requires this connection to ensure adequate power.
- C. Plug the other eSATA connector into your computer's eSATA port (usually on the back of the computer).

– USB –

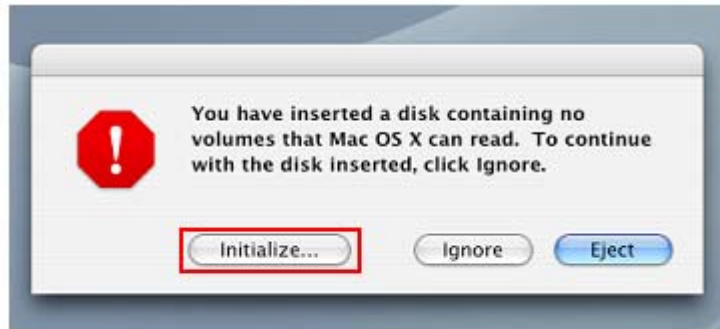
- A. Plug both large ends of the USB Y-cable into available USB ports on your desktop computer or notebook.
- B. Plug the small end of the cable into the mini USB port on the SSD.

2. When the SSD is successfully connected to a computer, Mac OS will automatically detect and install drivers for it.



Note: "New Volume" is an example drive. The drive name on your desktop may differ

3. If you previously used the SSD with Windows® 2000, XP, or Vista into the SSD, an "Initialize" message may appear. Follow the instructions in the Formatting the SSD section to prepare your drive for use with your Mac® system.



■ Linux®

1. Connect the SSD to your computer:

– eSATA –

- A. Plug both the eSATA and mini USB ends of the eSATA cable into the SSD.
- B. Connect the large USB connector on the other end of the cable to a working USB port on your desktop computer. The SSD requires this connection to ensure adequate power.
- C. Plug the other eSATA connector into your computer's eSATA port (usually on the back of the computer).

– USB –

- A. Plug both large ends of the USB Y-cable into available USB ports on your desktop computer or notebook.
- B. Plug the small end of the cable into the mini USB port on the SSD.

2. If you previously formatted the SSD on a Windows® or Mac® computer, please follow the instructions in the Formatting the SSD section to prepare your drive for use with your Linux® system.

3. Create a directory for the SSD.

Example: **mkdir /mnt/SSD18M**

4. Then, mount the SSD.



Example: **mount -a -t msdos /dev/sda1 /mnt/SSD18M**

Disconnecting from a Computer |



WARNING! To prevent data loss, **ALWAYS** follow these removal procedures.
NEVER disconnect or turn off the SSD when its LED is flashing.

■ Windows® 2000, XP and Vista (USB)

1. Select the **Removable Hardware** icon  /  on the system tray.
2. The **Safely Remove Hardware** pop-up window will appear. Select the USB device drive letter that represents your SSD.



Removable Hardware tool in XP



Removable Hardware tool in Vista

3. A message window will appear stating: **The 'USB Mass Storage Device' device can now be safely removed from the system.** Unplug the SSD from your computer's USB port.



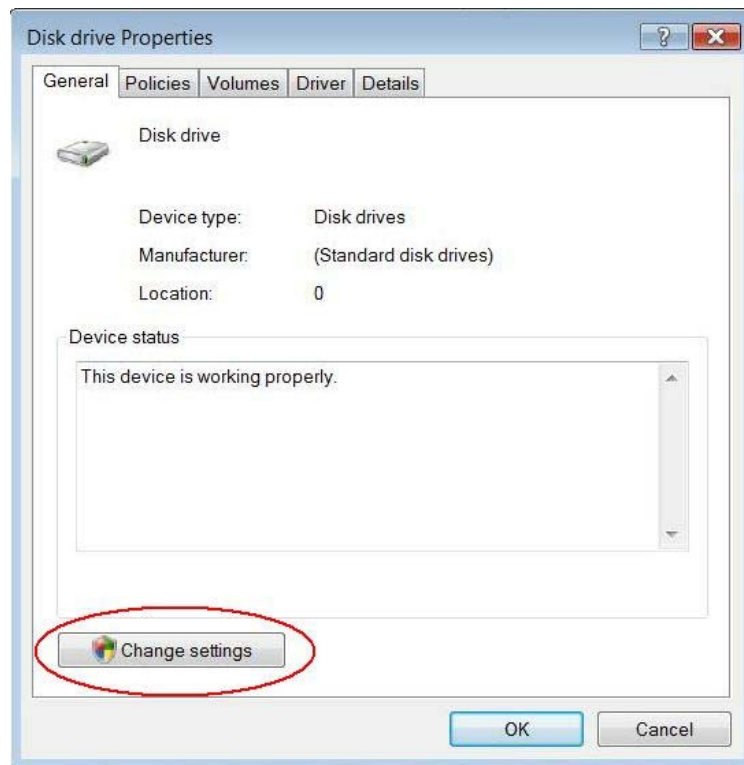
■ Windows® 2000, XP and Vista (eSATA)

If you are using an onboard eSATA / AHCI controller, a **Removable Hardware icon may not appear.**

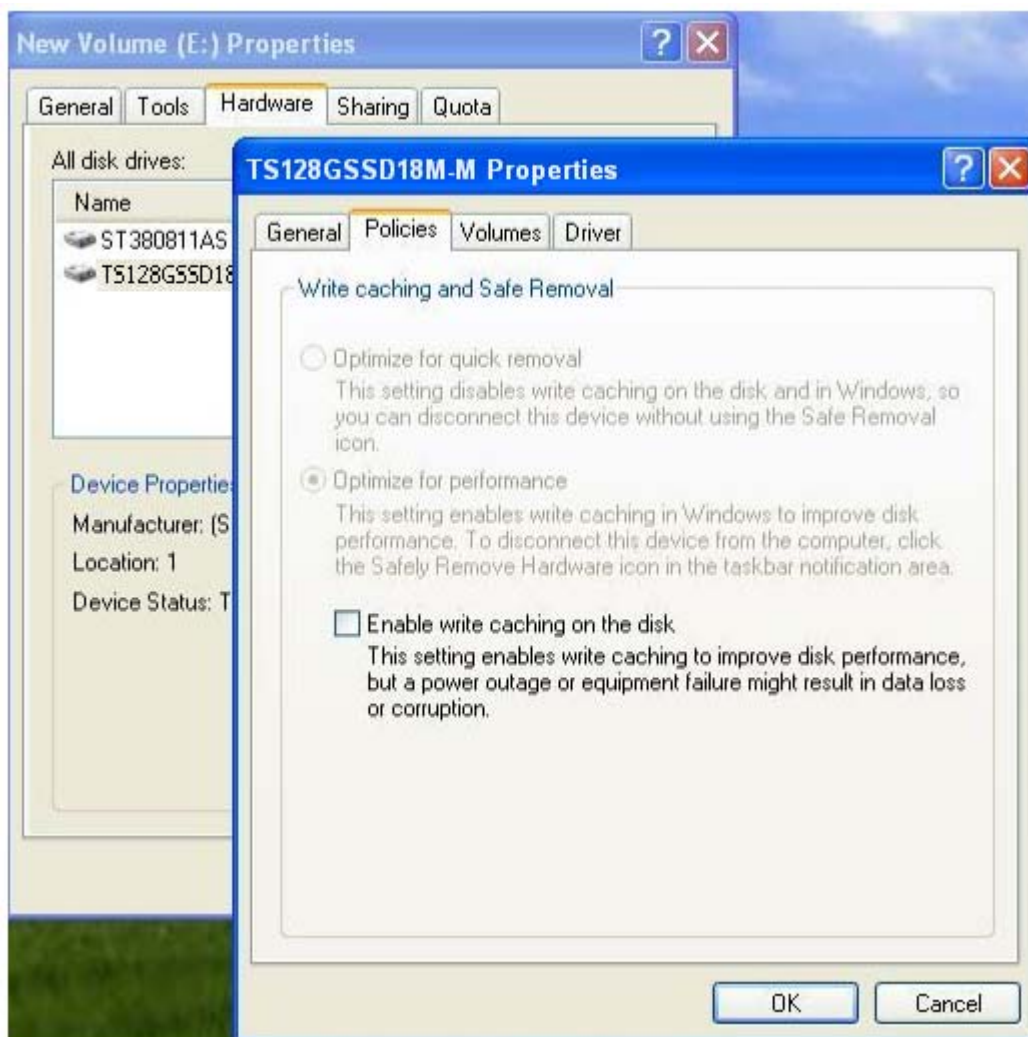
By default, Windows does not activate delayed write caching for eSATA devices, which means it is safe to remove the SSD from your computer as long as data is not being transferred.

To make sure write caching is disabled:

1. In the computer browser, right click the SSD drive icon and select Properties.
2. Click the **Hardware** tab and double-click the hard drive model that represents your SSD
(Ex: **TS128GSSD18M-M**).
3. If using Vista, you may have to first click "Change Settings."



4. In the **Policies** tab, ensure that the “**Enable write caching**” option is not checked.



■ Mac® OS (USB & eSATA)

Drag and drop the Disk icon that represents your SSD into the trashcan. Then unplug your SSD from the eSATA and/or USB port.



■ Linux® Kernel 2.4, or Later (USB)

Execute **umount/mnt/SSD** to un-mount the device. Then unplug your SSD from the USB port.

Formatting the SSD |



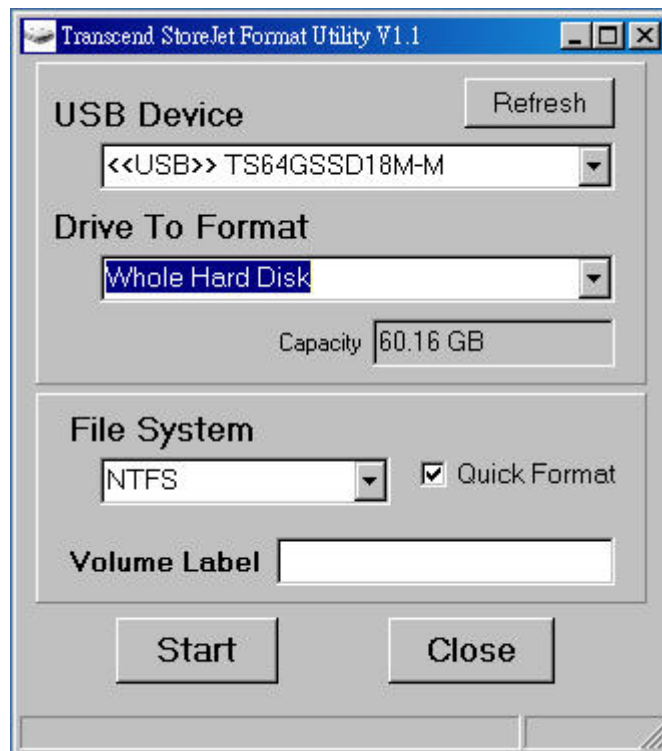
WARNING! Formatting the drive will erase all of the data on your SSD.

Please use the USB interface (not eSATA) to format the drive.

You must have Administrator Rights in order to format in Windows 2000, XP, or Vista.

■ Windows® 2000/XP

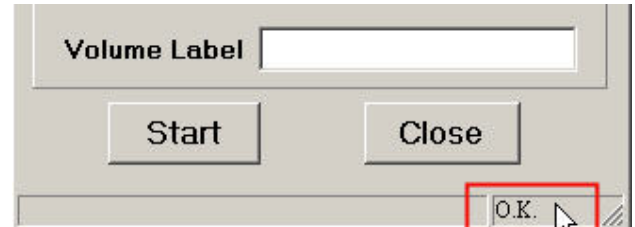
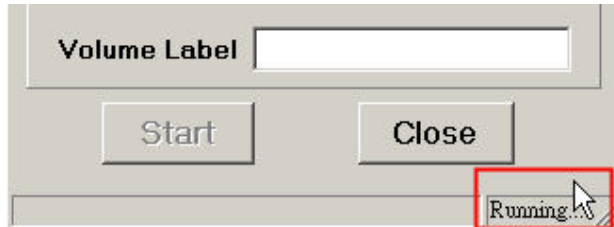
1. Download the StoreJet Format Utility from Transcend's online Download Center at <http://www.transcendusa.com/Support/DLCenter/index.asp> (the software can be located by selecting "Storage Devices -> StoreJet Drives -> any StoreJet product -> any StoreJet model")
2. When the download is complete, extract the downloaded ZIP file to your computer's hard drive (not the SSD) and run the StoreJetFormatter.exe application.
3. Plug the SSD into an available USB port on a Windows® 2000/XP computer.
4. **Unplug all other USB storage devices from your computer.** This is to prevent accidental format of a different USB drive.
5. In the StoreJet Format Utility window, click the "Refresh" button.
6. The program will automatically detect the SSD drive.
7. Press "**Start**".



8. A confirmation window will appear. Press OK to begin formatting the drive.

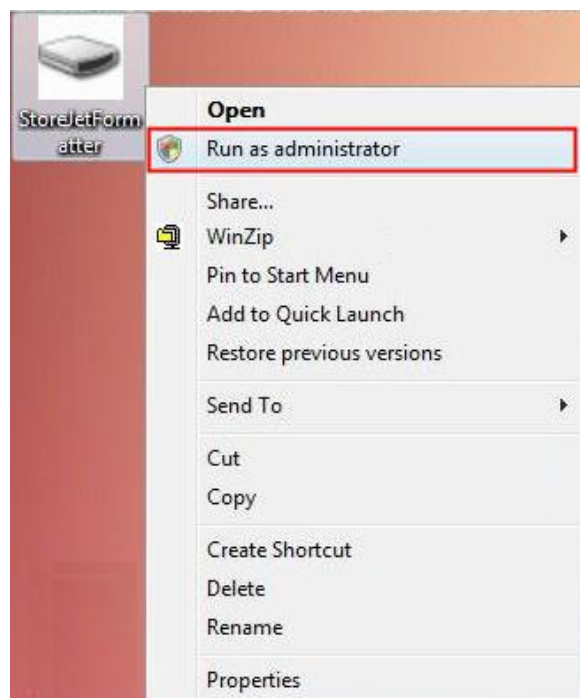


9. The format process may take a few minutes. When complete, an “O.K.” message will appear in the bottom right hand corner of the window.

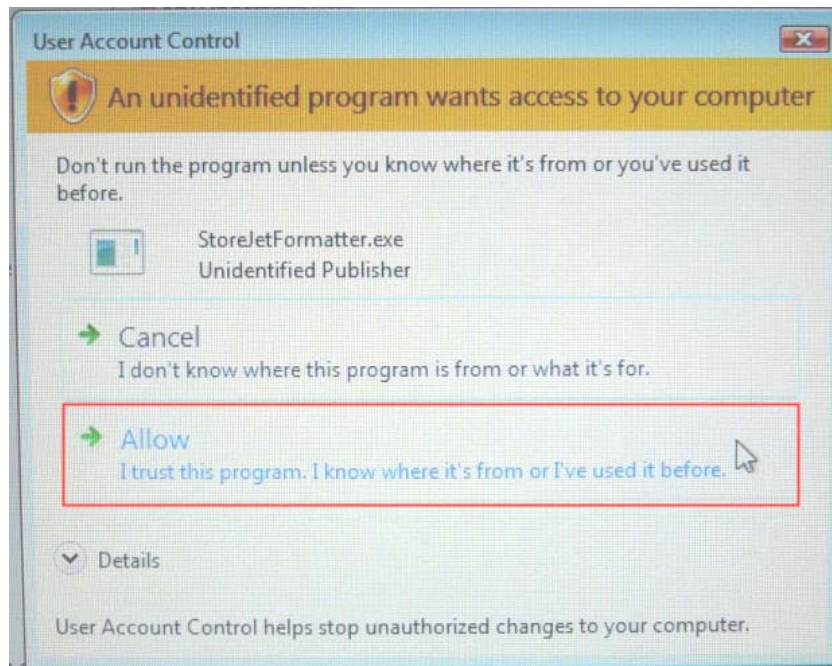


■ Windows Vista®

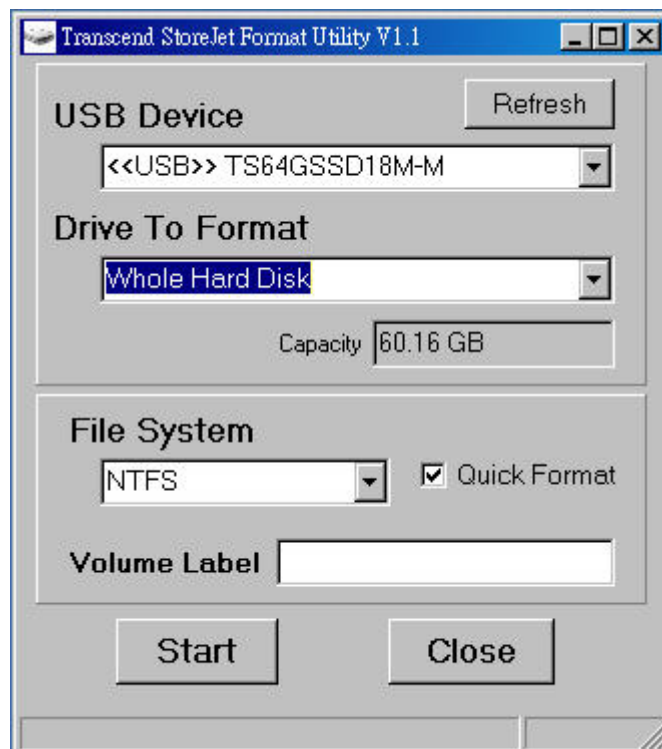
1. Download the StoreJet Format Utility from Transcend's online Download Center at <http://www.transcendusa.com/Support/DLCenter/index.asp> (the software can be located by selecting “Storage Devices -> StoreJet Drives -> any StoreJet product -> any StoreJet model”)
2. When the download is complete, extract the downloaded ZIP file to your computer's hard drive (not the SSD).
3. Right-click “**StoreJetFormatter.exe**” and select “Run as Administrator.”



4. The User Account Control window will appear. Select “**Allow**” to continue.



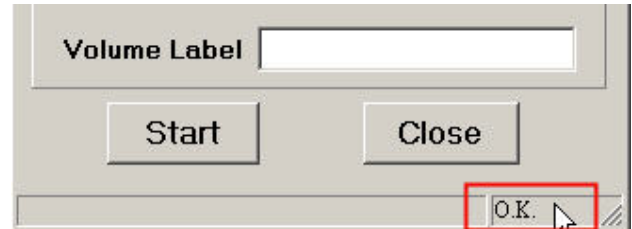
5. Plug the SSD into an available USB port on your Windows Vista® computer.
6. **Unplug all other USB storage devices from your computer.** This is to prevent accidental format of a different USB drive.
7. In the StoreJet Format Utility window, click the "Refresh" button.
8. The program will automatically detect the SSD drive.



9. Press "**Start**".
10. A confirmation window will appear. Press OK to begin formatting the drive.



11. The format process may take a few minutes. When complete, an "O.K." message will appear in the bottom right hand corner of the window.



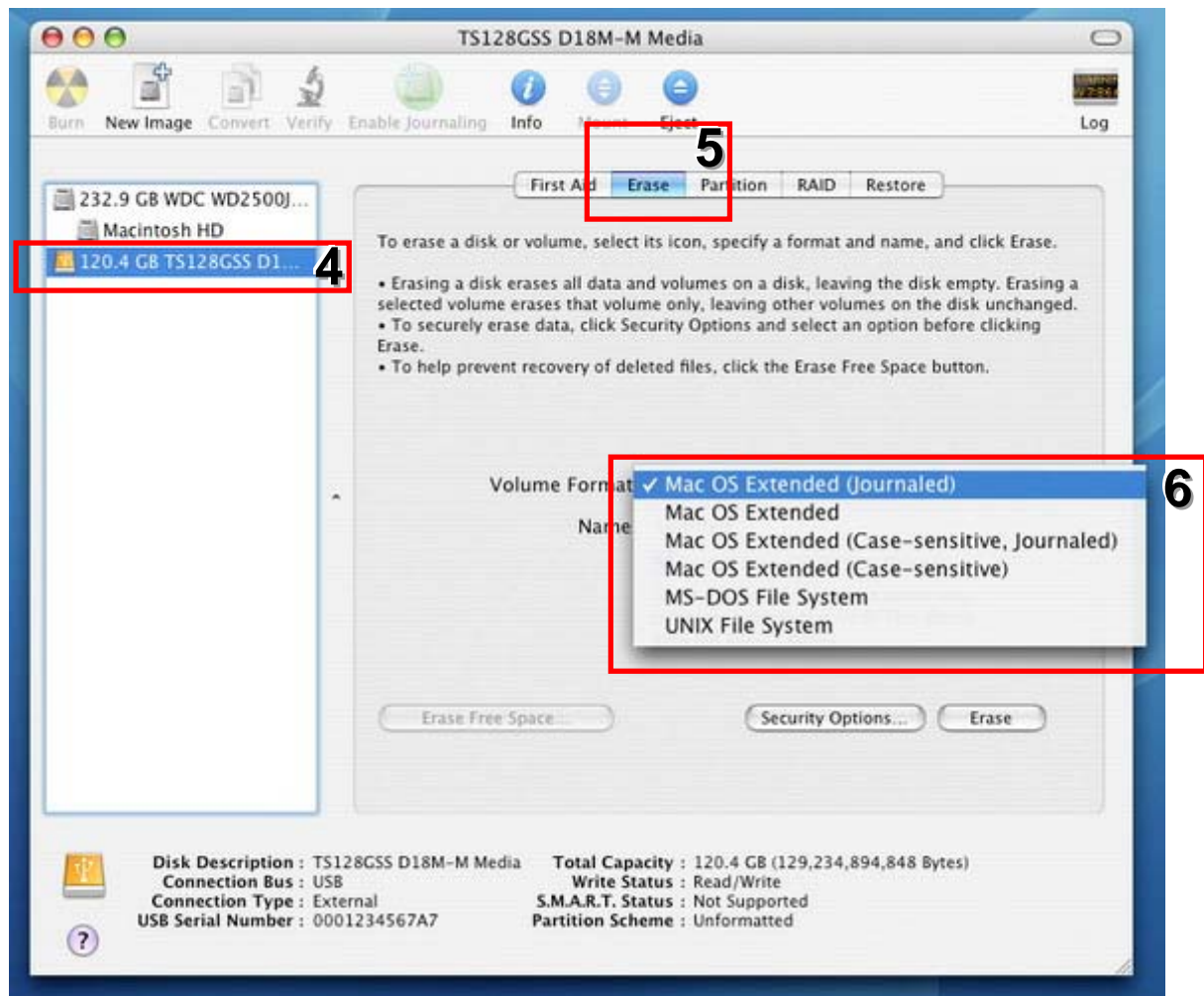
12. Click the "Close" button to finish and exit.

■ Mac® OS

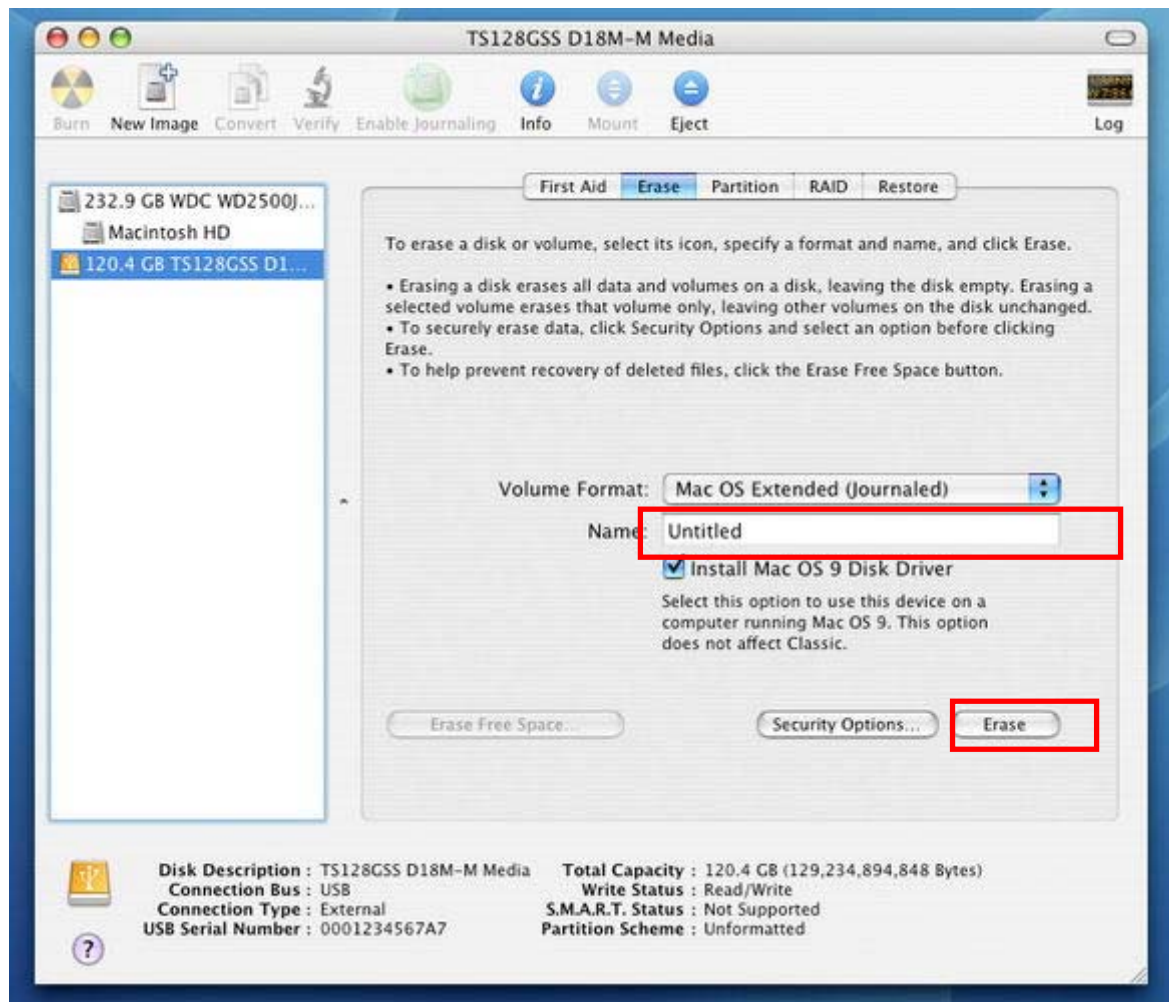
1. Plug the SSD into an available USB port on your MAC computer.
2. **Unplug all other external storage devices from your computer.** This is to prevent accidental format of a different drive.
3. Click the "Initialize" button.



4. In the Disk Utility window, select the new drive from the list on the left.
5. Select the "Erase" tab.
6. Choose the Volume Format you want (Mac OS Extended (journaled) is recommended).



7. Input a name for your new drive (otherwise, your drive will be named "Untitled")
8. Click the "Erase" button in the bottom right corner of the window



9. Click "Erase" again to confirm.



10. Click the "Close" button to finish and exit.

■ Linux®

1. Plug the SSD into an available USB port on your Linux computer.
2. **Unplug all other USB storage devices from your computer.** This is to prevent accidental format of a different USB drive.
3. Type **fdisk /dev/sda** (replace /dev/sda with your actual USB device)
4. Press **p**
5. Press **n**
6. Press **w**
7. Type **mkfs.ext3 /dev/sda1**
8. Go to **/etc/fstab** and add: **/dev/sda1 /mnt/SSD auto user,noauto 0 0**

9. Type **mkdir /mnt/SSD**
10. Type **mount /mnt/SSD**

Troubleshooting |

If a problem occurs with your SSD, please first check the information listed below before taking your SSD in for repair. If you are unable to remedy a problem from the following hints, please consult your dealer, service center, or local Transcend branch office. We also have FAQ and Support services on our website at www.transcendusa.com

■ **My computer cannot detect the SSD**

Please try the following:

1. Verify that you are using the USB or eSATA cable that came in the SSD package.
2. Make sure all ends of the cable (eSATA: 4 plugs; USB: 3 plugs) are securely connected to the SSD and your computer. You can also try using a different USB or eSATA ports on your computer.
3. Unplug the SSD from your computer, wait for 10 seconds, and then plug it in again.
4. Ensure the USB port or eSATA port on your computer is enabled and functioning properly. If disabled, please refer to the user's manual of your computer, motherboard, or eSATA interface card.

If you still cannot detect the SSD, please see below for help with specific operating systems.

■ **I cannot detect the SSD on my Mac®**

If you previously used your drive in Windows® 2000, XP, or Vista, it is most likely formatted with NTFS, which is not compatible with Mac® OS. To store and backup data on your Mac® please follow the instructions on formatting the SSD on a Mac® to convert the drive to Mac's HFS+ format. If you plan to regularly use the drive with both Windows and Mac computers, we recommend formatting the drive to the FAT32 file system. Keep in mind that formatting the drive will **erase all existing data on the drive**.

■ **I cannot detect the SSD in Linux®**

If you previously used your drive in a Windows® 2000, XP, Vista®, or Mac® computer, it is most likely formatted with NTFS, which is not compatible with Linux®. Please follow the instructions on formatting the SSD in Linux. Remember that formatting the drive will **erase all existing data on the drive**.

■ **I connected the SSD to my computer with both eSATA and USB**

If you connect both eSATA and USB at the same time, the SSD will only be recognized on your computer as first plug interface device.

■ **I cannot detect the SSD in Windows® 2000/XP/Vista with eSATA**

Your motherboard chipset must support Advanced Host Controller Interface (AHCI) in order to use eSATA. Visit <http://www.intel.com/support/chipsets/imst/sb/cs-012304.htm> to see a list of AHCI-compatible Intel chipsets, and download the necessary chipset drivers for your operating system. If you are still having problems, please contact the manufacturer of your computer, motherboard, or eSATA add-on card.

■ **StoreJet Format Utility cannot detect the SSD using eSATA**

Ensure your Windows account has Administrator Privileges. The StoreJet Format Utility only supports USB. Please connect the SSD via USB and click "Refresh."

Specifications |

Size (L x W x H):	80.0mm x 50.0mm x 12.5mm
Weight:	50g (Max.)
Connection Interface:	eSATA and USB 2.0
Operating Voltage:	DC 5V (from USB port)
Operating Temperature:	0°C (32°F) to 70°C (158°F)
Max. Transfer Speed (USB)	Read: 35MB per second Write: 25MB per second
Max. Transfer Speed (eSATA)	Read: 90MB per second Write: 50MB per second
Supported Operating Systems (USB)	windows® 2000 / XP / Vista Mac® OS 9.0 or later Linux® kernel 2.4.2 or later
Supported Operating Systems (eSATA)	Windows® 2000 / XP / Vista Mac® OS 10.4 or later
Certificates:	CE, FCC ClassB, BSMI
Warranty:	2-years

Ordering Information |

<i>Device Description</i>	<i>Transcend P/N</i>
SSD18M (32GB)	TS32GSSD18M-M
SSD18M (64GB)	TS64GSSD18M-M
SSD18M (128GB)	TS128GSSD18M-M

Transcend Limited Warranty |

“Above and Beyond” is the standard we set ourselves for customer service at Transcend. We consistently position ourselves to be significantly above the industry norm, which is all part of our commitment to Customer Satisfaction.

Please do not break or remove the warranty sticker on your Transcend products, as this will void your product warranty.

All Transcend information, Inc. (Transcend) products are warranted and tested to be free from defects in material and workmanship and to conform to the published specifications. During the warranty period should your Transcend **Solid State Drive** fail under normal use in the recommended environment due to improper workmanship or materials, Transcend will repair the product or replace it with a comparable one. This warranty is subject to the conditions and limitations set forth herein.

Duration of Warranty: The Transcend **SSD18M** is covered by this warranty for a period of two (2) years from the date of purchase. Proof of purchase including the date of purchase is required to collect on the warranty. Transcend will inspect the product and decide whether to repair or replace it. Transcend reserves the right to provide a functional equivalent product, or a refurbished replacement product.

Limitations: This warranty does not apply to product failure caused by accidents, abuse, mishandling, improper installation, alteration, acts of nature, improper usage, or problems with electrical power. In addition, opening or tampering with the product casing, or any physical damage, abuse or alteration to the product's surface, including all warranty or quality stickers, product serial or electronic numbers will also void the product warranty. This warranty only applies to the product itself, and excludes all product accessories, including, but not limited to: card adapters, cables, earphones, power adapters, and remote controls, which must be exchanged within seven days of the purchase date if defective. Transcend is not responsible for recovering any data lost due to the failure of a hard drive device. Transcend's **SSD18M** must be used with devices that conform to the recommended industry standards. Transcend will not be liable for damages resulting from a third party device that causes the Transcend **SSD18M** to fail. Transcend shall in no event be liable for any consequential, indirect, or incidental damages, lost profits, lost business investments, lost goodwill, or interference with business relationships as a result of lost data. Transcend is also not responsible for damage or failure of any third party equipment, even if Transcend has been advised of the possibility.

Disclaimer: The foregoing limited warranty is exclusive. There are no other warranties, including any implied warranty of merchantability or fitness for a particular purpose. This warranty is not affected in any part by Transcend providing technical support or advice.

Online Registration: To expedite the warranty service, please register your Transcend Product within 30 days of purchase.

Register online at <http://www.transcendusa.com/TsClub/RegProduct.asp>

❖ The specifications mentioned above are subject to change without notice.



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www.transcendusa.com

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