

# User's Manual

## USB 3.0 / SATA-III Combo Card



**PDC3**

(Version 1.1)



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## Introduction |

Congratulations on purchasing Transcend's **USB 3.0 / SATA-III Combo Card**. This easy-to-install card allows you to add revolutionary new USB 3.0 (5Gb/s) and SATA-III (6Gb/s) ports to any desktop computer with a PCI Express slot. Its PCI Express 2.0 x1 connection interface is compatible with virtually all current motherboards, and guarantees unrestricted two-way communication between your PC and any USB devices or SATA drives you plug into the card. With two external SuperSpeed USB 3.0 ports and two internal SATA-III ports, Transcend's USB 3.0 / SATA-III Combo Card is ideal for use with new USB 3.0 high-capacity external storage devices and ultra-fast SATA-III internal hard drives and SSDs. This User's Manual is designed to help you install and use your new USB 3.0 / SATA-III Combo Card.

## Package Contents |

The **USB 3.0 / SATA-III Combo Card** package includes the following items:

- USB 3.0 / SATA-III Expansion Card



- SATA Cable



- Low-profile Bracket



- Quick Installation Guide



## Features |

- Add USB 3.0 ports & SATA-III to any desktop computer with a PCI Express® slot
- Connection bandwidth up to 5Gbits per second (USB 3.0) & 6Gbits per second (SATA-III)
- Ultra-fast PCI Express® interface eliminates speed bottlenecks
- Installs easily in any PCIe slot, including x1 and x16 slots
- SATA ports support AHCI mode with NCQ (Native Command Queuing)
- Supports PCI bus power management interface rev. 1.2
- Compact size saves space and inside your PC
- Includes low-profile installation bracket
- Two power connection options (15-pin SATA or traditional 4-pin)
- Fully compatible with PCI Express® 2.0
- Two internal SATA-III ports
- Two external USB 3.0 ports
- xHCI compliant

## System Requirements |

1. One of following operating systems:
  - Windows® XP (32bit or 64 bit)
  - Windows® Vista (32bit or 64 bit)
  - Windows® 7 (32bit or 64 bit)
2. Internet access to download the device driver.

## Safety Precautions |

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



**Before installation, please ensure your computer is off and its AC power cord is disconnected.**

### ■ General Use

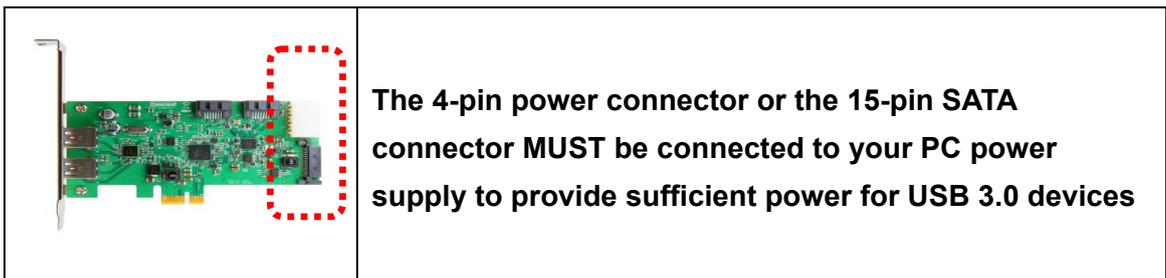
- To prevent damage caused by electrostatic discharge (ESD), always touch a grounded or large metal object before handling the USB 3.0 / SATA-III Combo Card.
- During operation, avoid exposing the card to extreme temperatures above 70°C(158°F), or below 0°C(32°F).
- Do not allow the card to come in contact with water or any other liquids.
- Do not store the USB 3.0 / SATA-III Combo Card in any of the following environments:
  - Direct sunlight
  - Next to an air conditioner, electric heater or other heat sources
  - In a closed car that is in direct sunlight
- Please ensure that the USB 3.0 / SATA-III Combo Card's metal bracket has been secured to your computer case with a screw or other mounting method provided by your case manufacturer.

### ■ Transferring Data

- **Transcend does NOT take any responsibility for data loss or damage during operation.** We strongly advise that you regularly create backups of important data in multiple locations and on different storage mediums.
- To ensure that your USB or SATA storage devices are properly detected, please make sure the USB 3.0 / SATA-III Combo Card drivers are correctly installed. Please refer to the *driver installation* section of this manual.

### ■ Power

- The power provided by your computer's PCI Express slot is insufficient to power USB 3.0 devices. Please ensure that the power connector is connected to your PC power supply before connecting any devices.



**The 4-pin power connector or the 15-pin SATA connector MUST be connected to your PC power supply to provide sufficient power for USB 3.0 devices**

## Product Overview |

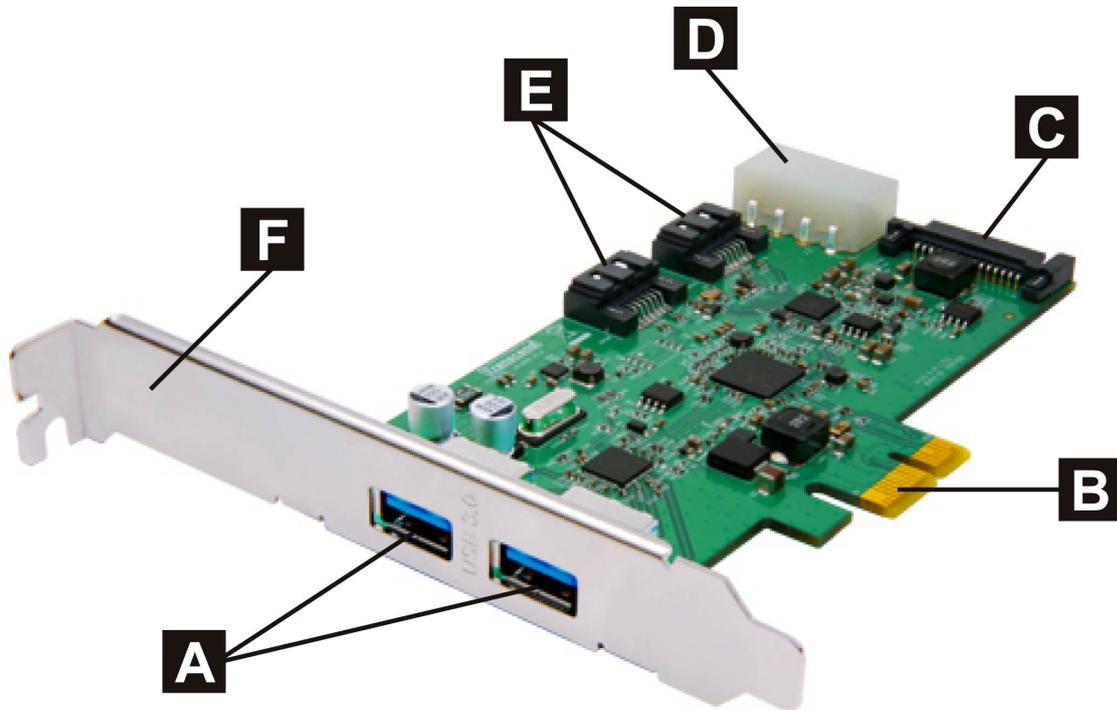


Figure 1: USB 3.0 / SATA-III Combo Card

<b>A</b>	Two USB 3.0 Ports
<b>B</b>	PCI Express x1 Connector
<b>C</b>	15-pin SATA Power Input
<b>D</b>	4-pin Power Input
<b>E</b>	Two SATA-III Ports
<b>F</b>	Installation Bracket

## Hardware Installation |

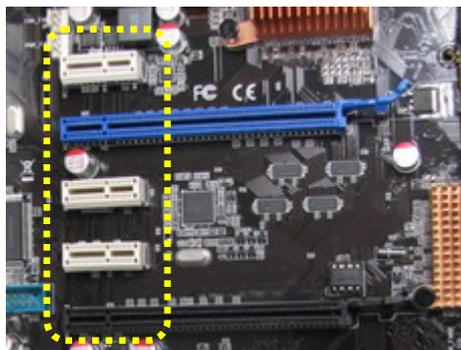
1. Turn off your computer and disconnect its AC power cord.



2. Open your computer's case and locate its PCI Express slots. (Check the owner's manual of your PC if you are not sure how to do this)



3. Select a PCI Express slot to install the USB 3.0 card into (short and long slots will both work), and remove the metal bracket or placeholder next to the slot.



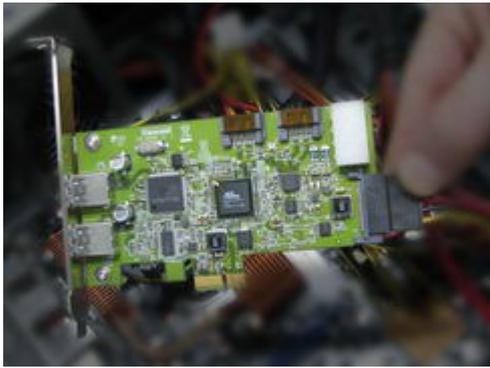
4. Connect an available 4-pin power connector or 15-pin SATA power connector from your computer's power supply to the USB 3.0 / SATA-III Combo Card.

**NOTE:** Before handling the USB 3.0 / SATA-III Combo Card, first ground yourself by touching a large metal object such as the computer case.

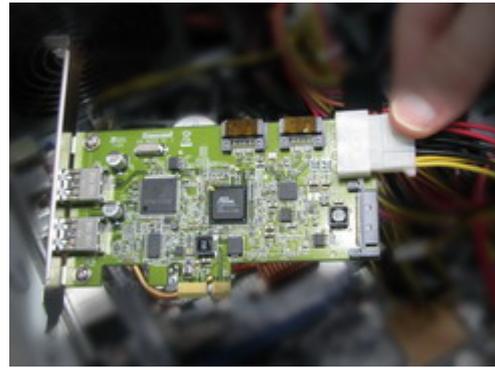


### WARNING

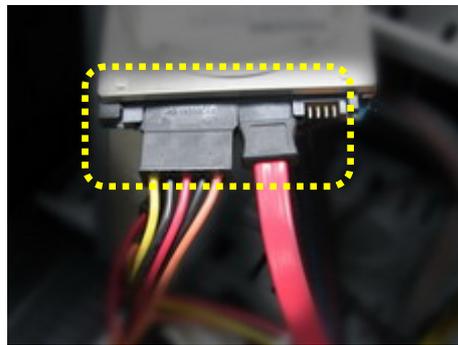
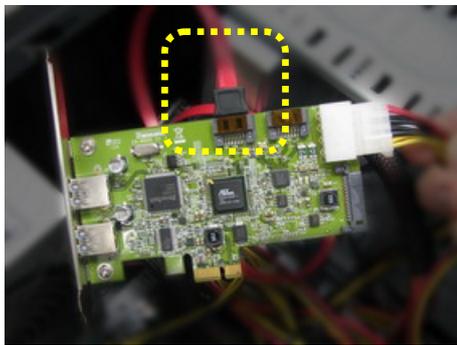
Connecting the 4-pin power connector backwards will damage the device and / or your computer.



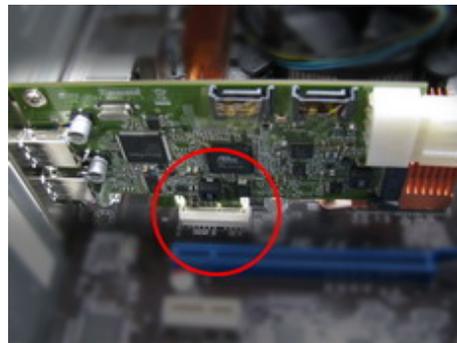
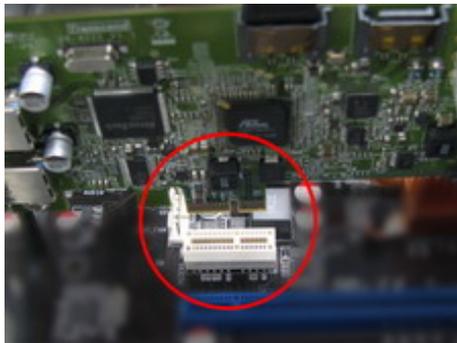
– OR –



5. If you have a SATA-III hard drive or SSD, connect it to the Combo Card using the provided SATA cable. Ensure that both ends of the SATA cable are securely connected to both the card and the hard drive, and that the SSD or hard drive's power cable is also connected.



6. Align the USB 3.0 / SATA-III Combo Card with the PCI Express slot and press down firmly until it is fully seated in the slot.



7. Secure the USB 3.0 / SATA-III Combo Card to the computer case with the appropriate screw or other mounting method used by your case.



## Low Profile Installation Bracket (OPTIONAL)



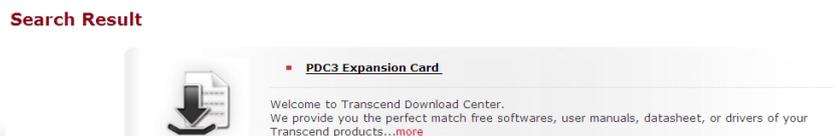
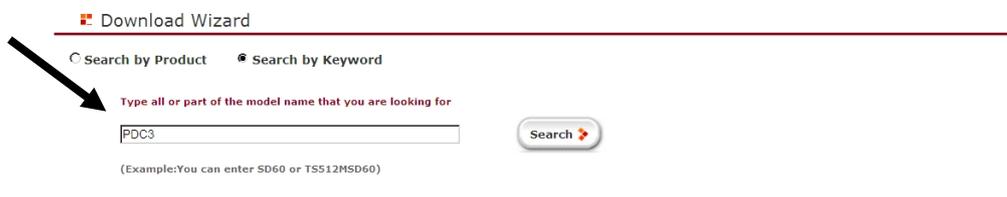
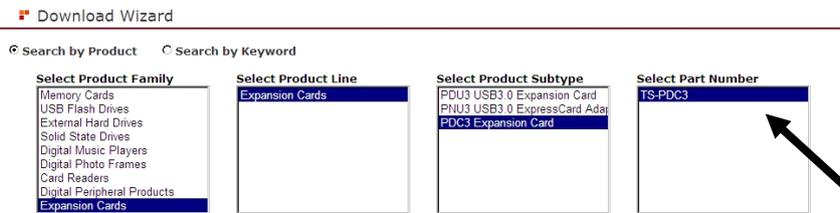
Smaller computer cases may require use of the included Low Profile Bracket in order to install the Expansion Card in your system. Unscrew the two mounting screws as shown, then position the Low Profile Bracket onto the card and reattach the screws.

8. Close the computer case and reconnect the AC power cord along with any other necessary cables.



# Driver Installation |

1. Go to [www.transcend-info.com/downloads](http://www.transcend-info.com/downloads). Use the drop down menus to locate your product or enter its model number in the Search field.



- Download the “PDC3 USB 3.0 Driver” and the “PDC3 SATA-III Driver”, then double-click the “Setup.exe” files to install the drivers on your computer.

Search Result:PDC3 Expansion Card (TS-PDC3)

Manual (10) Driver/Firmware (3) Product Sheet (1)

Description	Language	OS	Size	File	Release Date	Memo
TS-PDC3 USB3.0 Driver		WinXP, Vista, Win7	7.47MB	Local Server Global Server	1/19/2012	NEC v3.0.12.0
TS-PDC3 USB3.0 Driver		WinXP, Vista, Win7	6.75MB	Local Server Global Server	8/1/2011	EJ168 v0.103
TS-PDC3 SATA III Driver		WinXP, Vista, Win7	3.32MB	Local Server Global Server	8/1/2011	ASM1061 v126

[GPL source download](#)

- The installation wizard will start. Click “Next” to continue.



SATA-III Driver



USB 3.0 Driver

- Choose “I accept the terms of the license agreement” and then click “Next.”



5. Click "Next" to continue.



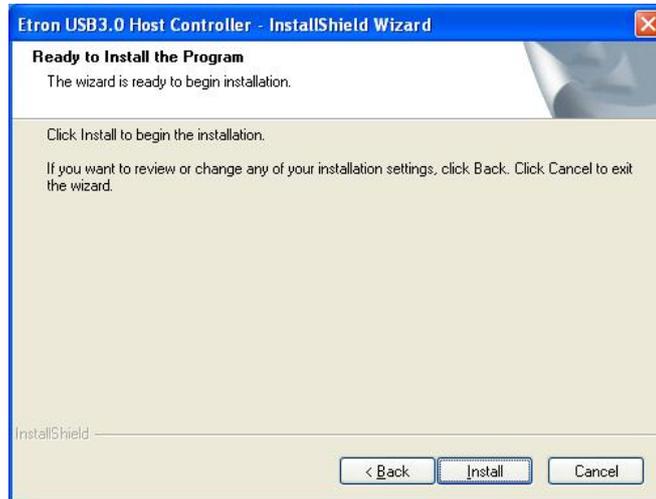
SATA-III Driver



SATA-III Driver



6. Click "Install."

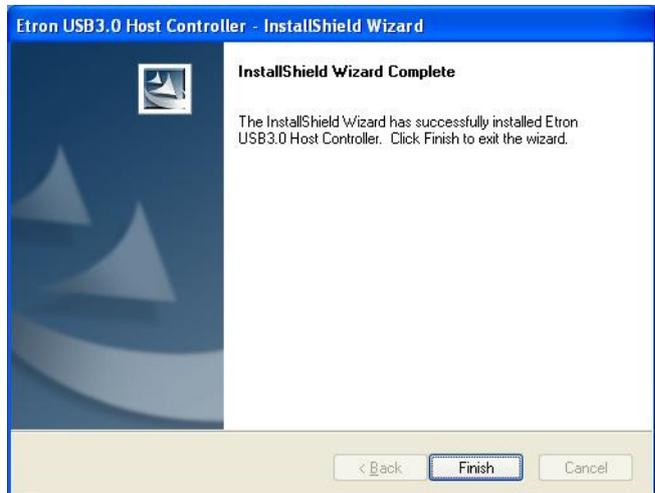


USB 3.0 Driver

7. Once the driver has finished installing, click "Finish" to exit the wizard.



SATA-III Driver



USB 3.0 Driver

8. Restart your system.



## Connecting USB devices |

Once you have successfully installed the USB 3.0 / SATA-III Combo Card into your computer, simply plug a USB 1.1, 2.0, or 3.0 device into one of the card's two USB 3.0 ports. If the driver has been installed successfully, your computer should automatically detect the device. Most USB storage devices do not require drivers, which means you may begin using your device immediately after the drive is detected. However; if your USB 3.0 device requires a driver, please consult the product user's manual for driver installation instructions.



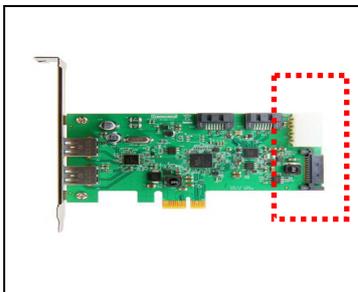
## Troubleshooting |

If a problem occurs with your USB 3.0 / SATA-III Combo Card, please first check the information listed below before taking the card in for repair. If you are unable to remedy a problem after trying the following suggestions, please consult your dealer, service center, or local Transcend branch office. We also have FAQ and Support services on our website.

### ■ **USB devices or SATA drives are not detected / cannot be recognized**

Check the following:

1. Is your USB 3.0 / SATA-III Combo Card properly plugged into the PCI Express slot? If not, unplug it and plug it in again. If it is properly connected, try using another available PCIe slot (x1, x2, x4, x8, or x16).
2. Ensure that the driver has been installed successfully.
3. Is the PCI Express slot disabled in the BIOS settings? Please see your motherboard's user manual for instructions on how to enter the BIOS and enable the PCIe slots.
4. Is the USB 3.0 / SATA-III Combo Card connected to your computer's power supply? Ensure that you have connected a 4-pin power connector (or 15-pin SATA power connector) from your PC power supply to the Expansion Card. For best results, use a power cable that is not connected to hard drives or other components with high power consumption.



The 4-pin or 15-pin SATA power connector MUST be connected to provide sufficient power for external USB 3.0 devices

5. Double-check to make sure the SATA cable connecting the hard drive (or SSD) to the Combo Card is securely attached at both ends. Use only the SATA cable included in the product packaging. If the included cable is unavailable, try using a higher-quality SATA cable.
6. Ensure that your computer BIOS has been updated to the latest version.

### ■ **My computer cannot power on**

Check the following:

1. Ensure that the USB 3.0 / SATA-III Combo Card is properly connected to the PCI Express slot on your computer. Try unplugging the card and reconnecting it.
2. Ensure that computer's boot drive (HDD) is connected properly.
3. Does USB 3.0 / SATA-III Combo Card conflict with other PCI Express cards? If so, please carefully remove other PCIe cards to determine which card is causing the conflict.
4. USB devices can sometimes cause conflicts that can prevent your computer from turning on. Try unplugging USB devices from the USB ports on your computer.

## USB 3.0 / SATA-III Combo Card

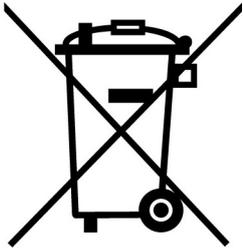
### Specifications |

<b>Dimensions</b>	120mm (L) × 63mm (W)
<b>Weight</b>	70g
<b>Power Input</b>	Standard 4-pin or 15-pin SATA
<b>USB Bus Power Output</b>	5V DC, 900mA (max) per port
<b>PC Interface</b>	PCI Express® 2.0 single lane (x1)
<b>SATA Ports</b>	2 internal (supports SATA 1.5Gb/s, 3Gb/s, 6Gb/s)
<b>USB Ports:</b>	2 external (supports USB 1.1 / 2.0 / 3.0)
<b>Connection Bandwidth</b>	USB 3.0: Up to 5Gb/s, SATA-III: Up to 6Gb/s
<b>Operating Temperature</b>	0°C (32°F) to 70°C (158°F)
<b>Certificates</b>	CE, FCC, BSMI
<b>Warranty</b>	Two-year Limited

### Ordering Information |

<i>Device Description</i>	<i>Transcend P/N</i>
<b>USB 3.0 / SATA-III Combo Card</b>	TS-PDC3
<b>USB 3.0 Expansion Card</b>	TS-PDU3
<b>USB 3.0 Express Card</b>	TS-PNU3

## Recycling & Environmental Considerations |



**Recycling the Product (WEEE):** Your product is designed and manufactured with high quality materials and components, which can be recycled and reused. When you see the crossed-out wheel bin symbol attached to a product, it means the product is covered by the European Directive 2002/96/EC:

Never dispose of your product with other household waste. Please inform yourself about the local rules on the separate collection of electrical and electronic products. The correct disposal of your old product helps prevent potential negative consequences on the environment and human health.

## Two-year Limited Warranty |

This product is covered by a Two-year Limited Warranty. Should your product fail under normal use within two years from the original purchase date, Transcend will provide warranty service pursuant to the terms of the Transcend Warranty Policy. Proof of the original purchase date is required for warranty service. Transcend will inspect the product and in its sole discretion repair or replace it with a refurbished product or functional equivalent. Under special circumstances, Transcend may refund or credit the current value of the product at the time the warranty claim is made. The decision made by Transcend shall be final and binding upon you. Transcend may refuse to provide inspection, repair or replacement service for products that are out of warranty, and will charge fees if these services are provided for out-of-warranty products.

### Limitations

Any software or digital content included with this product in disc, downloadable, or preloaded form, is not covered under this Warranty. This Warranty does not apply to any Transcend product failure caused by accident, abuse, mishandling or improper usage (including use contrary to the product description or instructions, outside the scope of the product's intended use, or for tooling or testing purposes), alteration, abnormal mechanical or environmental conditions (including prolonged exposure to humidity), acts of nature, improper installation (including connection to incompatible equipment), or problems with electrical power (including undervoltage, overvoltage, or power supply instability). In addition, damage or alteration of warranty, quality or authenticity stickers, and/or product serial or electronic numbers, unauthorized repair or modification, or any physical damage to the product or evidence of opening or tampering with the product casing will also void this Warranty. This Warranty shall not apply to transferees of Transcend products and/or anyone who stands to profit from this Warranty without Transcend's prior written authorization. This Warranty only applies to the product itself, and excludes integrated LCD panels, rechargeable batteries, and all product accessories (such as card adapters, cables, earphones, power adapters, and remote controls).

### Transcend Warranty Policy

Please visit [www.transcend-info.com/warranty](http://www.transcend-info.com/warranty) to view the Transcend Warranty Policy. By using the product, you agree that you accept the terms of the Transcend Warranty Policy, which may be amended from time to time.

### Online registration

To expedite warranty service, please access [www.transcend-info.com/register](http://www.transcend-info.com/register) to register your Transcend product within 30 days of the purchase date.



**Transcend Information, Inc.**

[www.transcend-info.com](http://www.transcend-info.com)

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