

akasa

integral

HDD external enclosure

for data-storage mobility with USB 2.0 and eSATA interface



eSATA

USER MANUAL

English

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FCC Compliance Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

FCC Warning Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can emit radio frequency energy and, if not installed or used in accordance with the instructions, may cause interference to radio communications. However, television reception interference can be determined by turning the equipment off and on.

The user is encouraged to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet different from that to which the receiver is connected.
- Consult the dealer or an experienced technician for help.

CAUTION

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.



INTRODUCTION

Thank you for your purchase of the AKASA INTEGRAL eSATA external hard drive enclosure. This Plug & Play enclosure enables you to use both types of 3.5" IDE hard drives (SATA and PATA) and gives you a choice of connection between ultra high speed eSATA and Hi-speed USB 2.0.

PACKAGE CONTENTS

- INTEGRAL eSATA quad interface enclosure
- USB2.0 cable (900mm)
- eSATA Cable (900mm)
- USB driver for windows ME/98 SE
- Footstand (Mounting)
- DC adapter with power cord & adapter
- User's Manual
- Installation kit for installing hard drive (including screws & two types of HDD interface cables-PATA/SATA)

FEATURES

- Ideal for 3.5" PATA and SATA HDD
- Fanless design
- One USB2.0 port, one eSATA port
- Converts 3.5" PATA/SATA hard disk drives into Hi-Speed USB 2.0 or SATA to eSATA external hard drives
- Supports all 3.5" PATA/SATA hard disk drives of any capacity
- Hi-Speed USB 2.0 transfer rates up to 480M bits/sec.
- SATA transfer rates up to 1.5G bits/sec
- Plug & Play, hot-swappable in USB mode
- USB 2.0 and USB 1.1 compatible
- Power and hard drive activity light indication

SPECIFICATIONS

- Interfaces: Serial ATA, USB 2.0/1.1
- Compliance with Gen1i, and Gen1m of Serial ATA II Electrical Specification 1.0
- Supports SATA II Asynchronous Signal Recovery (Hot Plug) feature
- Support 480Mbps High Speed operation
- LED indicator: Power and HDD activity (USB mode)
- Case material: Aluminum
- Weight: 510g (enclosure without HDD)
- Dimensions: 219mm L x 123mm W x 33mm H
- Environmental:
 - ! Power Requirements: 110-220 VAC, 50-60 Hz, 12V/2A, 5V/2A
 - ! Operating Temperature: 5 °C to 50 °C
 - ! Storage Temperature: -40 °C to 70 °C
 - ! Operating Humidity: 5 to 90%, non-condensing
- Warranty: 1 year, limited

SYSTEM REQUIREMENT

PC Requirements

- Minimum Intel Processor Pentium II 350MHz, 64MB RAM
- Windows ME / 2000 / XP / VISTA
- Active USB or SATA port – for external front panel access please use AKASA “All in One”

MAC Requirements

- Minimum Apple G3 processor, 64MB RAM
- Mac OS 9.1, 9.2, 10.1.5, 10.2, 10.3
- Active USB or SATA port

Harddisk Installation

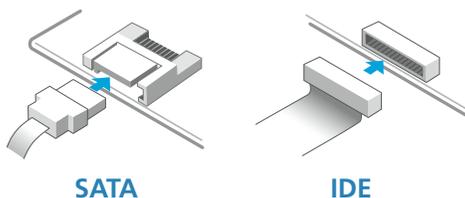
1. Open the back of the enclosure by undoing the securing screws and sliding the tray out of the aluminum housing.

NOTE: Disconnect the LED cable before completely sliding the HDD tray out .



2. Before installing the hard disk in the enclosure, please check your hard disk interface type. To install the SATA hard disk you need to exchange the power and data cables (included). PATA is the default configuration.

NOTE: The installation steps show the IDE interface but the procedure for SATA drives follows the same steps.



SATA

IDE

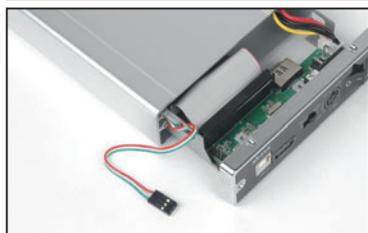


3. Place the HDD in the tray aligning the correct IDE and power connectors. Then connect the IDE and power connectors to the HDD.

NOTE: Make sure the jumper setting of the hard drive is set to **master mode**, please consult the hard drive guide for the jumper setting.



4. Position the HDD in the tray so that the mounting holes on the HDD line up with the tray mounting holes. Use the four screws supplied in the mounting kit to secure the HDD in the tray.

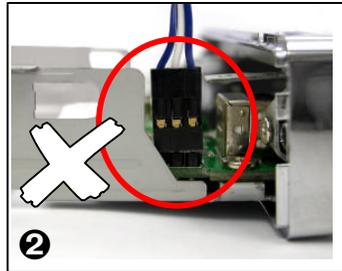
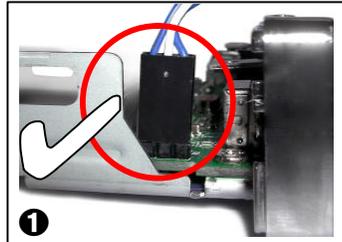


5. Gently insert the tray into the enclosure aligning the guide rail with the grooves of the enclosure housing.

6.

Before fully inserting the tray, connect the HDD activity LED to the 3-pin connector. Make sure that the connector is inserted as shown on **1**.

NOTE: The integral logo on the front bezel serves two operational purposes: indicates power and hard drive activity (in the USB mode).



7.

Insert the tray completely into the housing and secure the enclosure face plate to the enclosure using the screws provided.

8.

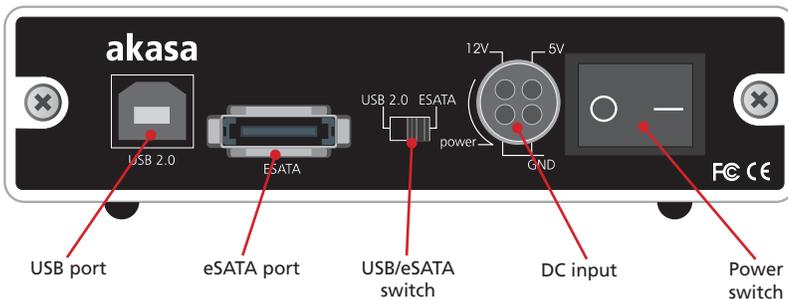
Connect the round end of the DC power cord to the back of the enclosure, making sure it is correctly aligned. Plug the AC cable into the power pack, and then connect the supplied adapter into an available AC socket.

NOTE: Please ensure that you are using the supplied power pack **only**.

9.

The eSATA back panel connector and switch arrangement.

NOTE: Please check the "USB2.0 or SERIAL ATA CONNECTION " chapter for the USB 2.0/eSATA switch usage.



USB CONNECTION

NOTE:

Regardless of the hard disk interface used in the enclosure (SATA or IDE), the USB2.0/eSATA switch must be switched to **USB** mode.



Connecting the INTEGRAL eSATA (USB mode)

1. Connect one end (type B) of the USB cable into the USB Port of your INTEGRAL eSATA.
2. Connect the other end of the USB cable (type A) into any active USB port of the computer.
3. Make sure the switch on the INTEGRAL eSATA enclosure is in the USB 2.0 position.
4. Connect the **supplied power pack** and switch on your enclosure.
5. Let Windows search and install the driver automatically.
5. Open "My Computer" to see your external hard drive ready to use.

NOTE:

In order to reach USB 2.0 speed, you must have a motherboard or host adapter card that has USB 2.0 support. This device will auto sense the speed of your USB port and adjust between USB 1.0 and USB 2.0 speed.

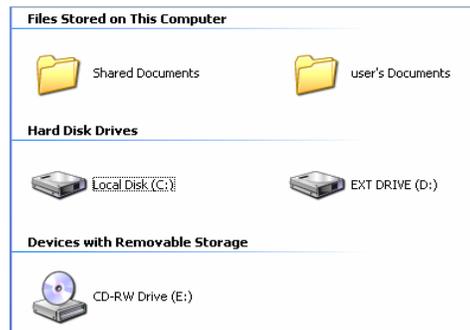
If the external hard disk is a new disk drive which has not been partitioned, please refer to the [Partition the External Hard Disk](#) chapter to prepare your USB2.0 external disk.

Drivers Installation

Windows XP/2000/Me & Server 2003

INTEGRAL eSATA drive is supported by Mass Storage Device within WINDOWS Me/2000/XP system directly. You do not need to install any drivers.

When the USB External Drive is used for the first time your PC system will detect a USB 2.0 Storage Device and automatically install the drivers for [\[USB Mass Storage Device\]](#) from the installed system.



Mac OS

Mac OS 8.6

If you are using Mac OS 8.6, the software of Mass Storage Support 1.3.5 is required for installation. You can download The USB Mass Storage Support 1.3.5 from the Apple Software Updates web site [Http://www.apple.com/support](http://www.apple.com/support) .

Mac OS9.0 or later

You don't need to install this software if you have installed Mac OS 9.0 or above.

When you connect the INTEGRAL LAN into the USB port of the Mac computer, the mass storage volume should appear on the desktop in a few seconds automatically

Windows 98SE

NOTE: For Windows 98 drivers look at the eSATA page at: www.akasa.co.uk.

Disconnecting the INTEGRAL eSATA (USB mode)

WARNING!

Do not switch off the enclosure or unplug the USB or power cable when using the INTEGRAL eSATA .DOING THIS MAY RESULT IN LOSS OF DATA!

Windows XP/2000/ME/Server 2003

1. Double-click on the **[Unplug arrow icon or Eject Hardware]** icon in the system tray. Dialog box appears as on the right.
2. Highlight the **[USB Mass Storage Device]** in the dialog box, click on **[Stop]**, choose the USB2.0 External Drive that you want to disconnect, then click on **[Stop]** again on next screen.
3. Wait for few seconds, the system prompts **“You may safely remove this device”**.
4. You can now safely switch off the enclosure or unplug the USB cable from the USB port of the computer.



Mac OS

When disconnecting your Integral eSATA drive from the computer, close all windows and quit all running applications that are stored on the USB2.0 External Drive and drag USB2.0 External Drive's icon into **“Trash”** this dismounts it from the Desktop prior to unplugging the USB2.0 External Drive from the USB port.



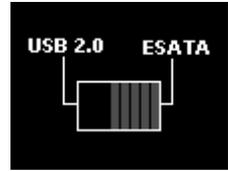
ESATA CONNECTION

NOTE:

The SATA connection of the enclosure is **only** available **with SATA HDD** installed and it is not supported under Windows 98.

Motherboard or adapter card with SATA interface is required. Make sure the SATA interface driver is installed and SATA port enabled in BIOS.

Before using the external SATA connection the USB2.0 / eSATA switch must be in the eSATA position.



Connecting the INTEGRAL eSATA (eSATA mode)

Windows OS XP/2003/2000/Me

1. Make sure the computer system is switched off.
2. Connect the INTEGRAL drive to the motherboard SATA port with the supplied SATA cable.
If the SATA port is not apparent consult the motherboard manual.
To avoid continues opening the case we recommend Akasa ALLINONE panel, which provides external SATA port.
3. Connect the **supplied power pack** and switch on your enclosure.
4. Make sure the slide switch on the INTEGRAL enclosure is in the ESATA position.
5. Boot-up your computer into Windows O/S.
6. Open "My Computer" to see your INTEGRAL eSATA drive as a local disk rady to use.

Mac OS10.2 or higher

1. Make sure the computer system is switched off.
2. Connect the INTEGRAL drive to your motherboard SATA port with the supplied SATA cable.
3. Connect the **supplied power pack** and switch on your enclosure.
4. Make sure the slide switch on the INTEGRAL enclosure is in the ESATA position.
5. Boot-up your computer into MAC O/S.
6. MAC system will automatically recognize and mount on your desktop ready to use.

Disconnecting the INTEGRAL eSATA (eSATA mode)

WARNING!

Do not switch off the enclosure or unplug the SATA or power cable when using the INTEGRAL eSATA .DOING THIS MAY RESULT IN LOSS OF DATA!

1. Turn off the system
2. Switch off and unplug the enclosure

Drivers Installation

INTEGRAL eSATA drive is recognized as a local drive and is supported by motherboard SATA driver. You do not need to install any additional drivers.

NOTE:

Do not connect both (USB and ESATA) cables at the same time.



HOW TO PARTITION THE EXTERNAL HARD DISK

WARNING!!

Before you partition your hard disk, please be aware that this will destroy all your existing data on the drive, so make sure you have a backup! This step is usually only required the first time you install a factory new hard drive or if you want to change the existing format.

Windows 2000/XP

Step1

To partition the eSATA drive please plug the Hard Disk either via USB or eSATA connection then click on **[My Computer]** and choose **[Manage]**. A **[Computer Management]** window will appear (as on the right).

Step2

Click on **[Disk Management]** on the left part of this window and all connected disk drives will be listed in the right part. Find the Hard Disk that you added with it's partition status on the right. You can create a new or delete an existing partition by right clicking on this area.

Step3

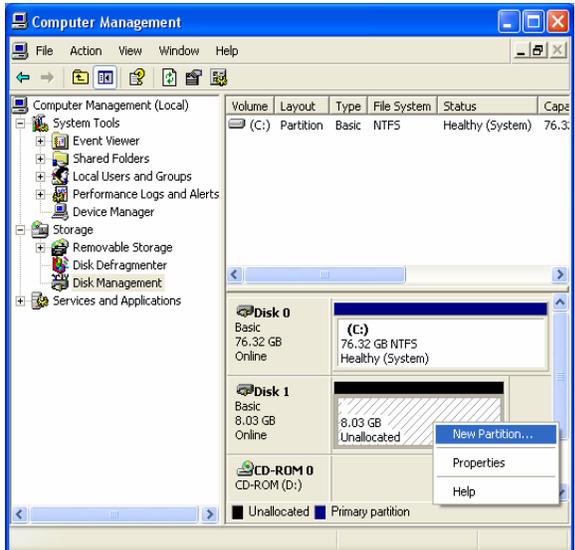
Right-click on the hard disk partition status area and choose **[New Partition...]**. The "New partition wizard" will appear.

Step4

Following the "wizard" instructions to partition and format your HDD.

Step5

Wait until "wizzard" finish formatting your eSATA drive. It should now appear in **[My Computer]** ready to use.



■ Unallocated ■ Primary partition

Mac OS

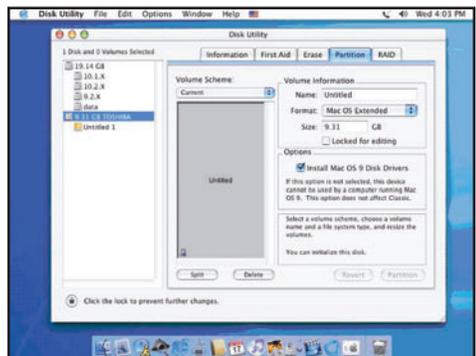
NOTE:

Mac OS does not recognize NTFS formatted drives.

Mac OS9.2 and earlier, does not support creating partitions on an external drive. To do that, you would need to purchase additional 3rd party software. Initializing is no problem on all Operating Systems.

Mac OS X, use the Disk Utility to format and create partitions on your external disk.

- Select "Disk Utilities" in the utilities folder.
- Choose your external drive and format it according to your requirement.



REMARKS

- Only one interface (USB or eSATA) can be connected at the same time.
- For better heat dissipation and performance, do not cover the Enclosure and leave enough room around it.
- Never expose the product to water or humid conditions.