Addonics
T E C H N O L O G I E S

Ruby Cipher AES 256-bit ExDrive

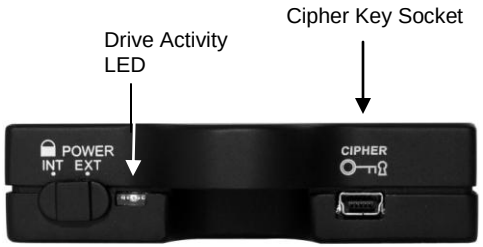
RCED256ES & RCED256EU

User's Guide

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 radiate radio frequency energy. If not installed and used in accordance with the instructions, it may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If the equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment on and off, the user is encouraged to try and correct the interference by one or more of the following suggestions.
Reorient or relocate the receiving antenna
Increase the distance between the equipment and the receiver
Connect the equipment to a different power outlet other than the one where receiver is connected
Consult a certified television or radio technician

Enclosure Overview



Ruby Cipher key

Check to make sure you have the correct version of the Ruby Cipher key. The key should match the label at the back of the drive enclosure.

Black label AES-256 stands for Ruby Cipher 256-bit key

IMPORTANT

There is no back door for the Ruby Cipher encrypted hard drive if the key is lost or stolen.

To ensure there is a spare key, your Ruby Cipher bundled kit comes with one pair of Ruby Cipher keys. These 2 keys have identical encryption code. One of these keys should be kept in a safe and secure location and can be sent back to Addonics for duplicating additional keys. If you are down to the last key, be sure to make a back up of all the data stored inside your encrypted hard drive prior to sending the last key to Addonics. Addonics is not responsible for key lost in the mail or retrieval of the data inside the encrypted hard drive.

- The CIPHER key MUST be inserted at the front of the drive enclosure in order for the drive to be ACTIVATED.
- Once the drive is INITIALIZED using the Cipher Key that comes with the kit, the drive can only be accessed by the original key.
- The 2 keys that come with each Ruby Cipher bundled kit has their own unique encryption code. So the keys among different kits are not interchangeable.
- If you have multiple sets of Ruby Cipher kits and would like all the keys to have the same encryption code, you may make this request at the time of your order or mail the keys together with master key back to Addonics to recode them for you. Again be sure that you keep a spare key with you. Make a back up of your data if you are mailing in your last key.

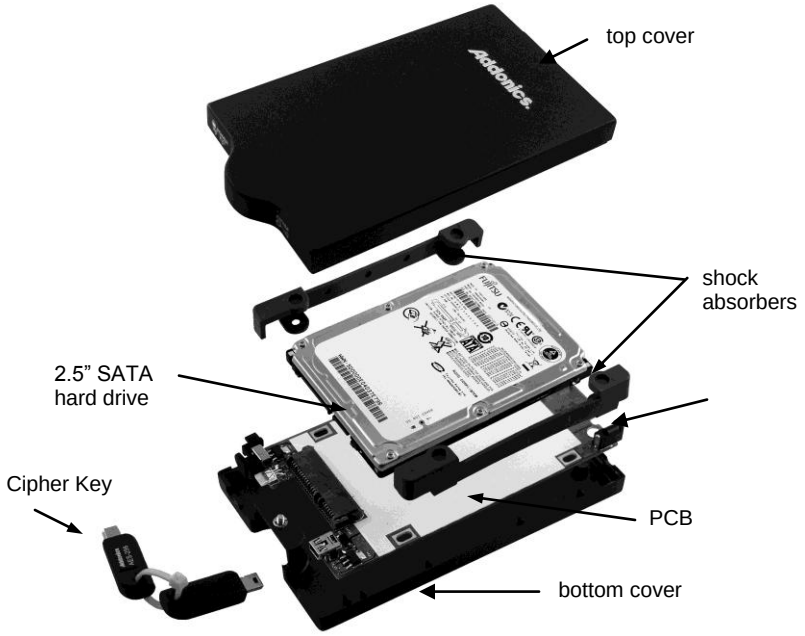
Keeping track of the hard drive

If you are using the Ruby Cipher drive enclosure to encrypt multiple hard drives, it is important to label your hard drive if you are taking the drive out of the enclosure. The hard drive with Ruby Cipher encryption will look like a brand new drive when attach directly to the SATA controller of a computer. There will be no partition or any hint to indicate that the drive contains encrypted data. When the drive is partitioned, all the encrypted data will be lost.

The same holds true if a hard drive already has data on it is installed into the Ruby Cipher drive enclosure. The computer detects the hard drive as a brand new drive or a drive that is unallocated. Once you proceed to partition the drive, the data that was on the hard drive will be erased and cannot be recovered.

A Ruby Cipher encrypted hard drive can be moved to another Ruby Cipher drive enclosure. But the same key used in encrypting the hard drive must be used in the new drive enclosure in order to access the drive.

If you are installing multiple Ruby Cipher drive kits in your organization, it is important to keep track of the drive and the encryption key. Once it gets mixed up, there is no possible way to recover the data on the encrypted hard drive.



Step 1
Separate the top from the bottom cover of the drive enclosure by loosening the screw as shown on the photo.

Step 2 Align the SATA connector in the 2.5" hard drive with the SATA connector on the PCB.
Step 3 Wrap the shock absorbers around the hard drive and PCB.

Step 4 Turn over the PCB and secure the hard drive to the PCB with the mounting screws that come with the kit.

Step 5 Mount the board to the bottom cover.

Step 6 Put the top cover on by holding it in near vertical position and sliding the two metal clips inside the two small slots on the rear of the bottom cover.

Step 7 Lower the front of the top cover and making sure the two covers lined up properly. Tighten the small retaining screw on the front of the bottom cover to close the enclosure.

Cable Connections

Internal/External
Power Switch

Power connection
using 5V power adapter
or USB power cable

Power: Connect the power cable (provided) to the 5V power connector located at the back of the enclosure.

Data:
Model: **RCED256ES**
Connect the eSATA to eSATA cable to the eSATA connector located at the back of the enclosure and the other end of the eSATA cable to the eSATA connector on your SATA host controller with eSATA ports.

Model: **RCED256EU**
Connect the eSATA to eSATA cable to the eSATA connector located at the back of the enclosure and the other end of the eSATA cable to the eSATA connector on the USB2.0 to eSATA adapter. You can now plug the adapter to a USB port on your system.

Powering On Enclosure:

Note: Be sure the Ruby cipher key is inserted into the drive enclosure prior to turning on the power of the drive cradle. The hard drive will not be detected by the computer if the power to the drive cradle is turned on without the Cipher key. Under such condition, the power on the drive cradle will have to be turned off and turned back on again with the Cipher key already inserted into the drive enclosure in order to detect the hard drive.

To power on the enclosure, move the switch located at the front of the enclosure to the EXT mode. When the switch is turned on, the LED light beside it would light up to indicate power and also drive access.

Note: There are no drivers needed to use the eSATA cable as long as the drivers are installed for the Serial ATA Controller card/chip. It is plug and play.

Brand New Hard drive must be partitioned and formatted first before a drive letter is assigned by the OS.

Technical Support

If you need assistance to get your unit functioning properly, please call Addonics Technical Support. Our technical staff will be happy to assist you, but they will need your help to do so. Calling the technical support staff without all the proper information can be both time consuming and frustrating. Here are some tips to help you out:

MODEL NUMBER – Please have this number on hand.
SYSTEM INFORMATION – Type of computer, peripherals, etc.
OPERATING SYSTEM – What version of Windows
WHAT'S THE TROUBLE? – Give enough information about your problem so that we can recreate and diagnose it.

FREE Software Drivers for all Addonics Technologies Products are available 24 hours per day at the World Wide Web Site: www.addonics.com

Contact Information

Phone:	408-573-8580
Fax:	408-573-8588
Email:	http://www.addonics.com/sales/query/
Internet:	http://www.addonics.com

TECHNICAL SUPPORT

Phone:	408-453-6212
Hours:	8:30 am - 6:00 pm PST
Email:	http://www.addonics.com/support/query/