

EXTERNAL USB 3.0/E-SATA 256-BIT AES ENCRYPTION



Installation and Operation Manual



INTRODUCTION:

Audavi external enclosures provide a versatile and unique, real-time hardware encrypted storage solution. The USB3.0/e-SATA combination interface offers security-sensitive users NIST/CES certified AES (Advanced Encryption Standard) encrypted algorithms in a package that is easy to connect to almost any system. The enclosures are designed with 256-bit hardware data encryption which effectively intercept, interpret, translate and relay data commands to and from the disk drive in “real-time”. Audavi enclosures offer the technologies you need to keep your data secure and safe.

KEY FEATURES:

- Delivers “Real-Time” encryption with no impact on performance
- Secured with AES 256 bit HARDWARE encryption.
- Keeps data-at-rest confidential by preventing unauthorized access.
- Supports Hi-Speed USB data transfer speed of up to 5Gbps, and e-SATA data transfer speed of up to 3 Gbps.
- USB Mass Storage Class offers driverless installation for Linux, MAC OS, Windows 7/8, Windows XP, 2000, and Vista.
- Easy to connect with standard USB or e-SATA cables.
- Eliminates platform dependency
- Minimizes total cost of ownership (TCO)



What is an Encrypted Enclosure?

Audavi encrypted enclosures provide real-time hardware-based encryption. Every bit and byte on the disk drive is strongly encrypted by AES (Advanced Encryption Standard) algorithms using a 256-bit secure key. There is no clear text remaining on the disk drive and with over 10^{50} possible key combinations your data is safe and secure.

What is the Secure Key and Why Use It?

The Secure Key is a physical digital key that contains the “Secret Key” (number) necessary for encryption and decryption operations. The disk drive comes partitioned and formatted using the Secure Key. When complete, the entire content of the disk drive is associated with the unique Secure Key. Only a Secure Key containing the identical “Secret Key” can be used for authentication and decryption of the disk drive at power up.

Will Encryption Degrade Performance?

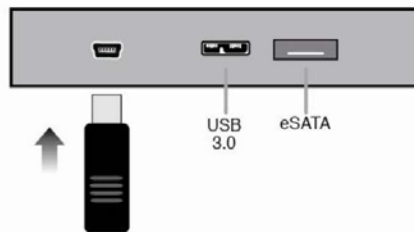
The Audavi encrypted enclosures provide Real-Time and automatic TRANSPARENT ENCRYPTION without performance degradation through the built-in microchip (encryption chipset), which operates at 3.0 Gbit/sec.

What about Compatibility Issues?

The Audavi encrypted enclosures are compatible with almost every operating system found today. However, a host controller with a USB mass storage driver typically provided by the OS is required.

PLEASE READ THOROUGHLY AND FOLLOW THE INSTRUCTIONS PROVIDED IN THIS MANUAL. FAILURE TO DO SO MAY RESULT IN DAMAGE TO THE ENCLOSURE, THE DISK DRIVE, AND ANY OR ALL OF THE CONNECTED DEVICES.

**THE ENCRYPTED ENCLOSURES COME WITH ONLY
3 DIGITAL SECURITY KEYS .
AUDAVI DOES NOT KEEP ANY RECORD OF SUCH KEYS.
PLEASE KEEP ONE KEY IN A SAFE PLACE.
UNFORTUNATELY, AUDAVI CANNOT RECOVER DATA
FROM CARTRIDGES WHICH HAVE BECOME INOPERABLE
OR INACCESSABLE DUE TO LOSS OF SECURITY KEYS.**



Installation/Initial Use

The disk drive in the encryption enclosure is partitioned and formatted by Audavi prior to shipment. The Audavi 256-bit encryption enclosure will **ONLY** work with the set of keys **ORIGNALLY SHIPPED** with the enclosure.

1. Insert the secure key in to the secure key port on the enclosure.
2. Connect one end of the USB or e-SATA cable to the correct port on the back of the enclosure.
3. Connect the other end to a suitable port on the laptop or computer.
4. e-SATA port does not provide power. If you want to transfer data via e-SATA you must connect the e-SATA cable first and then connect the USB cable to provide power. If you connect the USB cable first the data transfer will take place via USB and not e-SATA.
5. To use USB data transfer, ensure that the e-SATA cable is not connected to the enclosure. Otherwise the disk drive will not appear in "My Computer". Disconnect all cables and start from Step 1 and proceed with USB Cable only.
6. The LED on the front of the enclosure should blink white.
7. If the enclosure LED is RED, the secure key is either missing or not inserted properly.

8. If the LED is RED, remove power and data cables and repeat steps 1, 2 and 3.

Follow-on/Continuing Use

1. Insert the secure key in to the secure key port on the enclosure.
2. Ensure that the power and data cables are connected to the enclosure.
3. The LED on the front of the enclosure should blink white.
4. The disk drive should now be visible and accessible in the “My Computer” (or equivalent depending upon your operating system) folder on your desktop. The LED is no longer illuminated.
5. You should be able to move data to and from the disk drive just as you would for any other folder or drive.
6. Once the disk drive can be seen by the computer, the secure key can be removed and stored safely. The disk drive will remain operational until the power to the enclosure is removed.
7. At this time it will be necessary to reinsert the secure key when restoring the power in order to gain access to the disk drive (start at #1 above).
8. If the incorrect secure key is inserted, or if the secure key is inserted after the power has been applied, the disk drive will not be accessible to the computer.

Lost Secure Key - Means Lost Data!

If you lose one of the three secure keys that came with your enclosure you will be able to access your data by using the second or third secure key. If you lose all three of your secure keys you will not be able to access any of the data on your disk drive. If you lose one or two keys, Audavi can make additional copies of the remaining key. Please contact us at the numbers on the back of this manual.

Hardware Reinitialization

Lost secure keys means lost data, but Audavi can help you restore the disk drive so that it can be used again. Please contact us at the numbers on the back of this manual.

**AUDAVI HAS NO WAY TO RECOVER ENCRYPTED DATA
ONCE THE SECURE KEYS HAVE BEEN LOST**

SPECIFICATIONS:

Encryption Strength: 256-bit AES

Data Transfer Rate:

- e-SATA: Up to 3 Gbps
- USB 3.0(2.0): Up to 5 Gbps

OS Compatibility

- Windows 8/7, Vista/XP/2000/Server 2003
- Mac OS 10.X+
- Linux

Connector

- 7-pin e-SATA x 1
- 10-pin Micro-B USB 3.0 (1.1) x 1
- One Secure key receptacle in 4-pin mini-USB

Dimension of Enclosure

- 5.0" (L) x 2.9" (W) x 0.8" (H)
- 13.0 cm (L) x 8.0 cm (W) x 2.0 cm (H)

Weight

- .55 Lb, .25 Kg (Drive) / 1.3 lb, .6 Kg (Kit)

Certification

- FCC/CE

WARNING

YOU SHOULD MAKE PERIODIC BACKUP COPIES OF THE DATA STORED ON YOUR HARD DRIVE OR OTHER STORAGE DEVICES AS A PRECAUTION AGAINST POSSIBLE FAILURES, ALTERATION, OR LOSS OF THE DATA. BEFORE RETURNING ANY UNIT FOR SERVICE, BE SURE TO BACK UP DATA AND REMOVE ANY CONFIDENTIAL, PROPRIETARY, OR PERSONAL INFORMATION. AUDAVI IS NOT RESPONSIBLE FOR DAMAGE TO OR LOSS OF ANY PROGRAMS, DATA, OR REMOVABLE STORAGE MEDIA. AUDAVI IS NOT RESPONSIBLE FOR THE RESTORATION OR REINSTALLATION OF ANY PROGRAMS OR DATA OTHER THAN SOFTWARE INSTALLED BY AUDAVI WHEN THE PRODUCT IS MANUFACTURED.

AUDAVI PRODUCT WARRANTY

Limited Warranty Period

The Limited Warranty Period for the Audavi encrypted USB/e-SATA enclosures is 1 Year Parts and Labor.

General Terms

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Audavi warrants that the Audavi hardware product and all the internal components of the product that you have purchased from Audavi are free from defects in materials or workmanship under normal use during the Limited Warranty Period. The Limited Warranty Period starts on the date of purchase from Audavi. Your dated sales or delivery receipt, showing the date of purchase of the product, is your proof of the purchase date. You may be required to provide proof of purchase as a condition of receiving warranty service. You are entitled to warranty service according to the terms and conditions of this document if a repair to your Audavi branded hardware is required within the Limited Warranty Period. This Limited Warranty extends only to the original purchaser of this Audavi branded product and is not transferable to anyone who obtains ownership of the Audavi branded product from the original purchaser.

During the Limited Warranty Period, Audavi will repair or replace the defective component parts or the hardware product. All component parts or hardware products removed under this Limited Warranty become the property of Audavi. In the unlikely event that your Audavi product has a recurring failure, Audavi, at its discretion, may elect to provide you with a replacement unit of Audavi's choosing that is at least equivalent to your Audavi branded product in hardware performance. Audavi reserves the right to elect, at its sole discretion, to give you a refund of your purchase price instead of a replacement. This is your exclusive remedy for defective products.

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IF YOUR AUDAVI BRANDED HARDWARE PRODUCT FAILS TO WORK AS WARRANTED ABOVE, YOUR SOLE AND EXCLUSIVE REMEDY SHALL BE REPAIR OR REPLACEMENT. AUDAVI'S MAXIMUM LIABILITY UNDER THIS LIMITED WARRANTY IS EXPRESSLY LIMITED TO THE LESSER OF THE PRICE YOU HAVE PAID FOR THE PRODUCT OR THE COST OF REPAIR OR REPLACEMENT OF ANY HARDWARE COMPONENTS THAT MALFUNCTION IN CONDITIONS OF NORMAL USE.

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Notices and Classifications

FCC-B Radio Frequency Interference 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.
2. This device must accept any interference received, including interference that may cause undesired operation.

Note: 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 when the equipment is operated in a commercial environment. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications.



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