

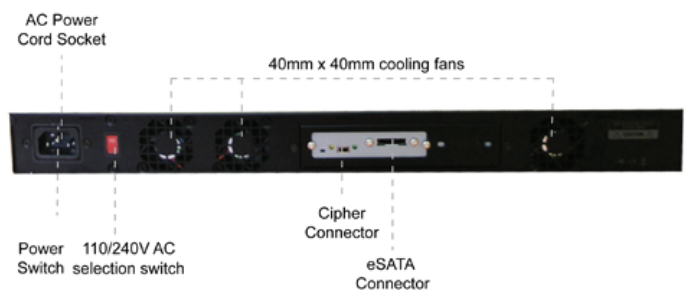
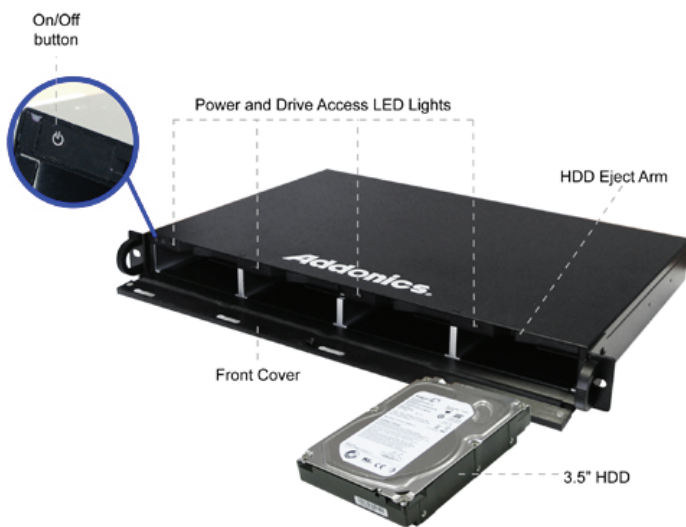
### INTRODUCTION

The Addonics RAID Rack is a family of 1U and 4U Rackmount chassis with removable drive systems for easily adding and removing hard drives. Comes bundled with all the necessary connecting cables for attaching to your system, these RAID Racks are designed to accommodate from four 3.5" SATA hard drive in a 1U Rack to as many as twenty 3.5" SATA hard drives in a 4U Rack. It is the ideal storage solution for video storage, storage farm or any applications that require a high capacity, reliable storage system.


You can start your RAID Rack with as little as one hard drive and expand by adding more hard drives as your storage requirement grows. Depending on the model, the hard drives can be connected to the system with eSATA, USB 3.0, mini SAS or Firewire cables. The 1U RAID Rack offers choice of models with Port Multipliers or with simple direct drive connection to system via eSATA or mini SAS cables. For the 4U RAID Rack, there is also choice of models with hot swappable redundant power supply for mission critical applications.

### About This Model

The R14ES is a 1U RAID Rack that accommodates as many as four 3.5" SATA hard drives or 2.5" SATA hard drives using Addonics Snap-In 25 adapter. The four drives are connected to a system via four eSATA cables. The integrated Snap-In bay provides the convenience in adding or removing drives directly like tape cartridges from each bay without any special tool.



## FEATURES

- **Connect to system via a Port Multiplier compatible controller eSATA port**
- **RAID Volume Encryption (RVE), one cipher key for all four drives**
- **AES 256-bit encryption - the highest level of encryption standard**
- FIPS 140-2 certified Crypto Module.
- Full disk encryption. No traceable data when the encrypted drive is connected to any system
- No training required. Encryption/decryption via a hardware key , just like using a regular key to open a door
- Drives are encrypted and decrypted on the fly with no noticeable performance degradation
- Install up to four 3.5" SATA hard drives of any capacity (drives not included) or 2.5" SATA hard drives using Addonics Snap-In 25 adapter
- Drives are added or removed directly like tape cartridge from each removable snap-in bay without any special tool
- Drives are connected inside to a 5-port PM (AD5SAPM)
- The four hard drives can be configured as RAID group via the RAID utility of the OS or the host controller
- Convert to a secured NAS by attaching to the LAN using Addonics NAS 4.0 adapter
- OS independent, can be used on any system

Components list made up this model:

1U RAID Rack integrated with AES 256-bit encryption and 5-port PM (AD5SAPM), a pair of Cipher keys (AAENKEY-2), one 3-foot eSATA cable (AAESATA100C), power cord

## SPECIFICATIONS

- **Rackmount chassis**
  - 1U height
  - Constructed in heavy duty steel
  - 180 Watts 110/240 AC power supply
  - Integrated triple 40x40mm low noise cooling fans
- **Front Panel**
  - LED displays - Power, HDD Activity
  - Front accessible switches - Power On / Off
  - Four Snap-In drive bay for 3.5" SATA HDD or 2.5" SATA HDD using optional Snap-In 25 (model: AE25SN35SA)
- **Rear panel**
  - one eSATA connector
  - One Cipher key socket
  - LED indicator for drive access and power on the CipherChain module
  - AC power socket
- **CipherChain Hardware encryption module (CCAES256M)**
  - Onboard AES 256-bit crypto engine
  - compatible with SATA I/II/III hard drive
  - SATA connectors:
    - Blue - for connecting to host
    - Black - for connecting to device
  - LEDs:
    - Green - for power and the presence of key code
    - Yellow - drive access activity
  - RESET: To clear key code and reset the CipherChain. This also removes the drive icon when the storage device is removed from the CipherChain and the connected SATA supports hot swap
  - Maximum throughput - 150 MB/sec

### SPECIFICATIONS (Cont.)

- OS support depends on the host controller
- Weight: 9.95 lb (4.51 Kg)
- Dimensions (W x L x H): 17.19 x 11.88 x 1.75 in. (436.5 x 301.75 x 44.45 mm)
- Operating temperature and humidity: 0 - 60°C, 5 - 95% % RH non-condensing
- Storage temperature and humidity: -20 - 70°C, 0 - 90% RH

\*Note: For eSATA connection, the RAID RACK must be connected to a SATA controller with hot swap capability in order to add and remove drive without rebooting. Please consult your motherboard or the add-in card manufacturer to determine hot swap support on your SATA controller. All of the Addonics SATA Host Controllers are hot swap capable.