

### INTRODUCTION

The Addonics 4U RAID Rack is a family of Rackmount chassis with built-in Port Multipliers and removable drive systems for easily adding and removing hard drives. It comes bundled with all the connecting cables needed to attach it to your system, these RAID Racks are designed to accommodate as many as twenty SATA hard drives in 3.5" or 2.5" form factor, for a **total storage capacity of a whopping 80TB per Rack** using today's largest 4TB hard drive! 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 20 hard drives are set up as 4 RAID groups that connect to the system with 4 eSATA cables or a single mini SAS cable. There is also choice of models with hot swappable redundant power supply for mission critical applications.

### About This Model

The RR2035ASDES features a 500w ATX power supply, Snap-In Disk Arrays for adding or removing drives directly like tape cartridges from each bay without any special tool, and 4 eSATA ports for connection to computer. The RAID Rack is connected to a system equipped with a PM compatible controller with 4 eSATA ports such as the Addonics 4-eSATA 6G host controller. Depending on your application, the twenty drives can be used as 20 individual drives or formed as different RAID groups. It is perfect solution for attaching large number of hard drives to any system for a variety of storage applications - external RAID storage, Video storage or Server storage.

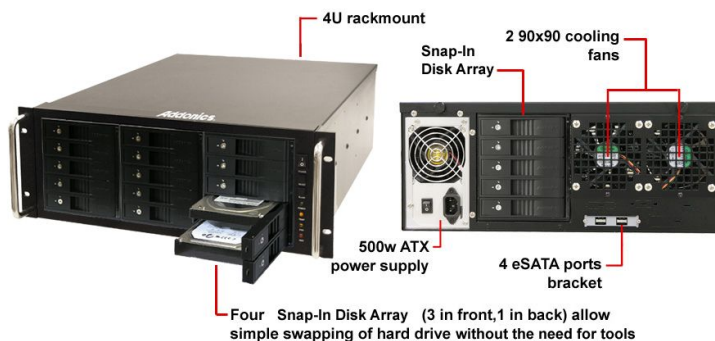
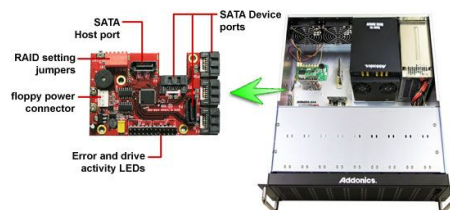


Diagram of the RAID Rack Interior



### FEATURES

- **Connect to system via four eSATA ports (connecting cable included).**
- **Install up to twenty 3.5" SATA hard drives of any capacity (drives not included)**
- **Power supply -ATX 500W**
- The drives in a group of 5 are connected to 4 PMs inside. Each PM is connected to one of the eSATA ports on the back panel.
- Drives are added or removed directly like tape cartridge from each removable snap-in bay without any special tool
- Each set of 5 drives can be configured as RAID0 (Striping), RAID1 (Mirroring), RAID3, RAID5 (Parity), RAID10 (Mirrored Striped), JBOD (Concatenation), Clone Mode (N-Way Mirror) using built-in hardware RAID or set as five individual drives with no RAID
- OS independent, can be used on any system
- Individual drive configuration requires connecting to Port Multiplier compatible controller such as the Addonics 4-eSATA 6G host controller or USB port when using the Addonics optional USB 3.0 - eSATAp adapter (model: ADU3ESA)
- For Windows operating systems, configure RAID using RAID diagnostic software utility or dip switches on each Port Multiplier
- For Linux, Mac or other operating systems, configure RAID using dip switches on each Port Multiplier
- Windows utility - RAID monitoring and email notification

#### **Components list made up this model:**

Storage Rack DA base unit with ATX power supply (SRDA460S), four Snap-In Disk Array (AESN5DA35), four 5X1 HPM-XA System Version (AD5HPMSXA), one 4 eSATA ports bracket (AD4ESASB), four 6-foot eSATA cable (AAESATA200C).

**Options:** 4-port eSATA 6G PCIe 4X controller (AD4ES6GPX4), USB 3.0 - eSATA adapter (ADU3ESA) for USB 3.0 / 2.0 connection. NAS 4.0 adapter (NAS40ESU) for sharing over LAN and WAN, USB 3.0 hub (AD4U3HE)

### SPECIFICATIONS

- **Rackmount chassis**
  - 4U height
  - Constructed in heavy duty cold rolled electroplated steel
  - Standard ATX power supply
  - Integrated dual 90x90mm cooling fans (51CFM each)
  
- **Intelligent Thermal Management Card**
  - Supports connection of up to 8 cooling fans
  - Two ambient temperature detect terminals
  - Built-in overheat buzzer
  - LED connectors for fan, temperature, and power
  - On / Off control for each cooling fan and temperature setting (40°C, 50°C, 60°C)
  
- **Front Panel**
  - LED displays - Power, HDD Activity, Fan, and Temperature
  - Front accessible switches - Power On / Off, System Reset, Buzzer Reset
  - Three Snap-In Disk Array
  
- **Rear panel**
  - 4 eSATA connectors
  - One Snap-In Disk Array
  
- **Hardware Port Multiplier (HPM) - model: AD5SAHPMXA), 4 units included.**
  - 5 drives are connected to each HPM which connects to the eSATA port or multilane connector mounted on the back panel
  - Each set of 5 drives can be configured as RAID0 (Striping), RAID1 (Mirroring), RAID5 (Parity), RAID10 (Mirrored Striped), JBOD (Concatenation), Clone Mode (N-Way Mirror) using the built-in hardware RAID.
  - Drives can also be set to appear as individual drive (JBOD) when the RAID Rack is attached to a PM compatible controller.
  - RAID configuration can be set via included software utility (for Windows OS only) or onboard jumper
  - Compatible with any OS.

**\*Note:** 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.