



# SecureRAID Series

## SP-1413AA



**1U Rack mount 4 Bays SATAII RAID**

**Subsystem with Real-Time Hardware AES 256-bit Encryption**

### Strongest Data Protection

※ Hardware AES 256-bit real-time full disk encryption engine certified by NIST (USA) and CSE (Canada).

### Unsurpassed Value

※ Most cost-effective and encrypted SATA II RAID subsystem.

### Easy Installation and Maintenance

- ※ Fast and easy to install the encrypted RAID subsystem.
- ※ Well-structured hardware design reduces future IT maintenance cost.

### Exceptional Manageability

- ※ Graphic User Interface (GUI) enables users to manage and configure the system remotely with ease.
- ※ Front-end LCD panel and control buttons provide an easy way to manage and monitor the system.

### Green Power Thinking

※ Save power by "MAID" (Massive Arrays of Idle Disks) technology.

## Features

- Hardware **X-WALL MX 256** AES 256-bit real-time full disk encryption engine certified by NIST (USA) and CSE (Canada) for ECB (Electronic Code Book) and/or CBC (Cipher Block Chaining) mode of operation
- Real-time full RAID subsystem encryption without performance degradation to safeguard all the data inside
- Authenticated by physical key tokens
- eSATA (3Gbps) single host interface and support up to four SATA disks
- Multiple Volumes for host access and supports over-two-Terabyte volume
- Supports online disk capacity expansion within the enclosure and supports disk hot spare and automatic hot rebuild
- Transparent data protection for most of the operating systems

## RAID Management

- Smart-functioned LCD panel
- Environmental monitoring unit
- Real-time disk drive activity and status indicators
- Web-based GUI management utility



## Technical Specifications

<b>Model</b>	<b>SP-1413AA</b>
<b>RAID processor</b>	400MHz storage I/O processor
<b>Encryption processor</b>	Enova® X-Wall® MX-256 encryption processor
<b>RAID level</b>	0, 1, 0+1, 3, 5 and JBOD
<b>Cache memory</b>	128MB
<b>No. of channels(host + drive)</b>	1 + 4
<b>Host bus interface</b>	eSATA
<b>Drive bus interface</b>	SATA II (Up to 3.0Gbps)
<b>Data transfer rate</b>	Up to 3.0Gbps (SATA II)
<b>Hot-swap drive trays</b>	Four (4) 1-inch trays
<b>Cooling fans</b>	1
<b>Password protection</b>	Yes
<b>Audible alarm</b>	Yes
<b>Failed drive indicators</b>	Yes
<b>Failed drive auto rebuild</b>	Yes
<b>Online consistency check</b>	Yes
<b>Online expansion</b>	Yes
<b>Array Roaming</b>	Yes
<b>Online RAID level / stripe size migration</b>	Yes
<b>Instant availability and background initialization</b>	Yes
<b>Environment monitor</b>	Yes
<b>Auto spare support</b>	Yes
<b>Bad block auto-remapping</b>	Yes
<b>Remote management</b>	Yes
<b>MAID support</b>	Yes
<b>Over 2TB support</b>	Windows 2000/SP3, XP/SP1 or later, Vista, Mac OS 10 or later Linux kernel 2.6 or later
<b>Power supply</b>	220W w/PFC
<b>Power requirements</b>	AC 90V ~ 264V full range, 6A ~ 3A , 50Hz ~ 60Hz
<b>Environmental</b>	
<b>Relative Humidity:</b>	10% ~ 85% Non-condensing
<b>Operating Temp:</b>	10oC ~ 40oC (50oF ~ 104oF)
<b>Physical Dimensions:</b>	44.4(H) x 486.4(W) x 569(D)mm
<b>Weight</b>	7.6kg (without Disk Drives)

Specifications are subject to change without notice.  
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SP-1413AA Datasheet