



SS-4502E/R

The Redundant RAID system setup an important milestone for MaxTronic approaching to critical high-end enterprise demands. With active-active redundant controllers architecture for full failover, the latest 3G SAS-SAS host interface with advanced high performance CPU supports higher data operation rate. Powerful hardware engine, high scalable expansion options and user-friendly management interface make it the best choice for fault tolerance, high performance solutions.

Ideal Application

- Enterprise Storage
- Video Editing
- Clustering/HA Solution
- Virtualization Cloud Storage

FEATURES AND BENEFITS

Single Controller Upgradeable

Single controller model is field upgradeable to a redundant solution. You could upgrade single to redundant by directly insert another controller module, So you can just configure a Active/Active solution by use both controller simultaneously for double I/O throughput, or if you prefer to have Active/Standby solution, you can put one controller on "standby", so it becomes a backup for the other one.

Innovate New Array Structure

The system features a new innovate array structure that hierarchically organizes storage objects. With this structure, physical drives are combined into Disk Groups (DG). DGs are subdivided into Logical Disks (LDs) where arrays are created. LDs can be combined together to form a striped Volumes. Either Volumes or LDs can be pointed to a LUN which are then presented to the host computer.

JBOD Expansion

This feature provides users the option to attach external SAS JBOD unit to expand the capacity of their storage solution. By cascading the RAID-less SAS JBOD unit helps reduce the total cost of ownership.

Smart I/O Path Management

Just simple double-click installation, host-based PathGuard Software enables end-to-end I/O path failover & fallback and dynamic I/O load balancing function to improve operation efficiency.

Centralized management by RAIDGuard Central

RAIDGuard Central (RGC), a free centralized management utility provides centralized monitoring multiple RAID systems by through Ethernet at a local area network. Easier install RGC to a normal PC as an agent and then any PC/server could monitor to RAID system remotely. Allow customer to warning the engineer real-time with mail sending and most popular web messenger: MSN.

SAS



Technical Specifications

Host Channel

Model No.	SS-4502E / SS-4502R	Host Interface	x4 SAS (SFF-8088)
Data Transfer Rate	Up to 12Gbps per port	Host Channel No.	2 / 4
External Connector Type	x4 SAS (SFF-8088)	JBOD Expansion	Yes (*1)

*1. Support up to 120 disks (include local chassis)

Hardware

Controller No.	Single (Upgradable) / Dual (Redundant)	Cache Memory	2048-4096 MB DDR II
Controller CPU	Intel IOP34x	Disk Interface	SAS (SATA compatibility)(*2)
Disk Channel No.	12	Hot Swap Disk Tray	12 x 3.5" swappable trays
Hot Swap Power Supply	420W x2	AC Input Voltage	100 to 240V (+/-10%), 47 to 63 Hz
Battery Backup	Optional / Yes	Hot Swap Fan Module	2 x Turbo Fan

*2. Support SATA drive needs AA-MUX tray board equipped.

RAID Functions

RAID Levels	JBOD, 0, 1, 3, 5, 6, 10, 30, 50, 60, NRAID		
RAID Features	<ul style="list-style-type: none"> - Support multiple RAID levels and stripe size - Support local hot spare and global hot spare - Online background initialization - Online RAID level and stripe size migration - Online capacity expansion and shrink 	<ul style="list-style-type: none"> - Online disk group de-fragmentation for free space consolidation - Online drive traveling and array roaming - Online array recovery 	
Advanced Data Reliability Assurance	SMARTCor. Function (DST, DS, DC)		

RAID Management

Front Panel LCD and Buttons	Easy access for configuration and status report	Event Notification	Built-in buzzer, e-mail, SNMP trap (*3), downloadable event records (up to 1024)
GUI	Embedded Ethernet connection, web browser-based RAID management GUI for configuration and status monitoring	RS-232 Terminal	Command Line Interface (CLI) for configuration and status report

Management AP

RAIDGuard Central	Storage of complete event log records. Convenient event log export feature. Instant event log notification via MSN. Multiple platforms support.	PathGuard Software	Multiple path to each device. End-to-end I/O path failover and failback. Dynamic I/O load balancing.
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Environment Specification

Humidity	20% to 80% non-condensing	Safety Regulatory	UL, CUL, CB
Operating Temp.	5°C to 40°C (41°F to 104°F)	EMC Standard	FCC, CE, C-Tick
Non-operating Temp.	-25°C to 60°C (-13°F to 140°F)		

Dimension and Weight

Physical Dimension	485(W) x 565(D) x 88(H) mm	Physical Weight	19Kgs (without drives)
Packed Dimension	610(W) x 790(D) x 430(H) mm	Packed Weight	28Kgs (without drives)

* Specifications and product offerings may vary without notice.
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