ARENA ®
The Disk Array Specialist

Fibre RAID Subsystem

SS-4501E/R

T he Redundant RAID system setup an important milestone for MaxTronic approaching to critical high-end enterprise demands. With active-active redundant controller architecture for full failover, the latest 4Gb FC-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
- Remote Backup
- Security and Surveillance
- Regulation Compliance Storage
- Disaster Recovery
- VOD on Education or Entertainment
- Fixed Content Archiving

FEATURES AND BENEFITS

Single Controller Upgradable
Single controller model is field upgradable 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 stripped 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.

Green design
Energy efficient design with high efficiency, load balance power module (with Power-FAN speed control), System-FAN speed control and disk spin-down function.

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.

Fibre

FC CE C UL RoHS COMPLIANT SERIAL ATA Serial Attached SCSI

Technical Specifications

Host Channel

Model No.	SS-4501E / SS-4501R	**Host Interface**	4Gb FC
Data Transfer Rate	Up to 4Gbps per port	**Host Channel No.**	2 / 4
External Connector Type	SFP(*1)	**JBOD Expansion**	x4 SAS (SFF-8088) (*2)

*1. SFP transceiver is not included.
*2. 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 1.2GHz	**Disk Interface**	SAS (SATA compatibility) (*3)
Disk Channel No.	12	**Hot Swap Disk Tray**	12 x 3.5" swappable trays
Management Port	10/100Mbit port (RJ45)	**UPS monitoring**	1 (PhoneJack)
Hot Swap Power Supply	420W x2 Redundant	**AC Input Voltage**	100 to 240V (+/-10%), 47 to 63 Hz
Battery Backup Module	Optional / Yes	**Hot Swap Fan Module**	2 x Turbo Fan

*3. 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	- Support multiple RAID levels and stripe size	- Online capacity expansion and shrink
	- Support local hot spare and global hot spare	- Online drive traveling and array roaming
	- Instant and background initialization	- Online array recovery
	- Online RAID level and stripe size migration	- Support Disk Self Test (DST)
	- Online disk group defragmentation for free space consolidation	- Support Disk Scrubbing (DS)
		- Support Disk Cloning (DC)
Snapshot	Yes (Firmware Embedded)	

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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