

**SS-4503E/R, SS-6603E/R**

## Ideal Applications

- Enterprise Storage
- Remote Backup/Disaster Recovery
- Security and Surveillance
- VOD on Education or Entertainment
- Virtualization Cloud Storage

The iSCSI RAID system setup an important milestone for MaxTronic approaching to critical high-end enterprise demands and cost effective IP-SAN. Active-Active redundant controller architecture support seamless controller failover without downtime. Energy efficient design with high efficiency, load balance power module, System-FAN speed control and disk spin-down function. Powerful hardware engine, high scalable expansion options and user-friendly management interface make it the best choice for fault tolerance, high performance solutions.

## 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 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.

### Full complement of iSCSI features

Link Aggregation (802.3ad) and jumbo frame support for maximizing bandwidth and performance, Challenge Handshake Authentication Protocol (CHAP) authentication, Header Digest and Data Digest help to guarantee iSCSI data, Internet Storage Name Service (iSNS) for helping management of iSCSI devices and support multiple iSCSI targets up to 8 sets.

### 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.

# iSCSI



# Technical Specifications

## Hardware

<b>Model No.</b>	<b>SS-6603E / SS-6603R</b>
<b>Controller No.</b>	Single (Upgradable) / Dual (Redundant)
<b>Controller CPU</b>	Intel IOP34x 1.2GHz
<b>Cache Memory</b>	2048-4096 MB DDR II
<b>Battery Backup</b>	Optional / Yes
<b>Expansion</b>	miniSAS (SFF-8088) port(*2)
<b>Management port</b>	10/100Mbit port (RJ45)
<b>UPS monitoring</b>	1 (RS232)
<b>Host Interface</b>	iSCSI GbE (RJ45)
<b>Host Channel No.</b>	4 / 8
<b>Disk Interface</b>	SAS (SATA compatibility)(*1)
<b>Disk Channel No.</b>	16 x 3.5" swappable trays
<b>Hot Swap Disk Tray</b>	16
<b>Hot Swap Power Supply</b>	2 x 460W Redundant
<b>AC Input Voltage</b>	100 to 240V (+/-10%), 47 to 63 Hz
<b>Hot Swap Fan Module</b>	3 x Turbo Fan

\*1. Support SATA drive needs AA-MUX tray board equipped.  
\*2. Support up to 120 disks (include local chassis)

<b>Model No.</b>	<b>SS-4503E / SS-4503R</b>
<b>Controller No.</b>	Single (Upgradable) / Dual (Redundant)
<b>Controller CPU</b>	Intel IOP34x 1.2GHz
<b>Cache Memory</b>	2048-4096 MB DDR II
<b>Battery Backup</b>	Optional / Yes
<b>Expansion</b>	miniSAS (SFF-8088) port(*2)
<b>Management port</b>	10/100Mbit port (RJ45)
<b>UPS monitoring</b>	1 (RS232)
<b>Host Interface</b>	iSCSI GbE (RJ45)
<b>Host Channel No.</b>	4 / 8
<b>Disk Interface</b>	SAS (SATA compatibility)(*1)
<b>Disk Channel No.</b>	12 x 3.5" swappable trays
<b>Hot Swap Disk Tray</b>	12
<b>Hot Swap Power Supply</b>	2 x 420W Redundant
<b>AC Input Voltage</b>	100 to 240V (+/-10%), 47 to 63 Hz
<b>Hot Swap Fan Module</b>	2 x Turbo Fan

## iSCSI Functions

<b>iSCSI Features</b>	<ul style="list-style-type: none"> <li>- Link-Aggregation, LACP (802.3ad)</li> <li>- Jumbo Frame support (9000bytes)</li> <li>- Challenge Handshake Authentication Protocol (CHAP)</li> </ul>
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- Header Digest and Data Digest
- Internet Storage Name Service (iSNS)
- Multiple iSCSI targets (up to 8)

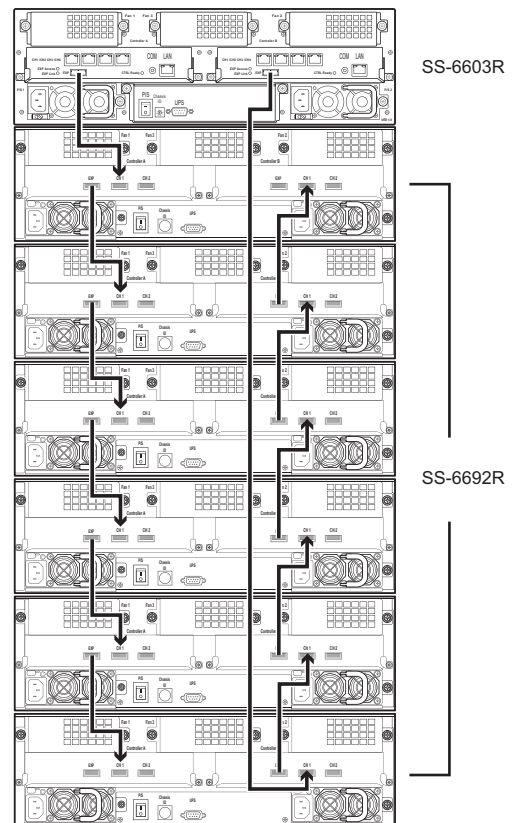
## RAID Functions

<b>RAID Levels</b>	JBOD, 0, 1, 3, 5, 6, 10, 30, 50, 60, NRAID
<b>RAID Features</b>	<ul style="list-style-type: none"> <li>- Support multiple RAID levels and stripe size</li> <li>- Support local hot spare and global hot spare</li> <li>- Instant and background initialization</li> <li>- Online RAID level and stripe size migration</li> <li>- Online disk group defragmentation for free space consolidation</li> <li>- Online capacity expansion and shrink</li> <li>- Online drive traveling and array roaming</li> <li>- Online array recovery</li> <li>- Support Disk Self Test (DST)</li> <li>- Support Disk Scrubbing (DS)</li> <li>- Support Disk Cloning (DC)</li> </ul>
<b>Snapshot</b>	Yes (firmware embedded)

## Environment Specification

<b>Humidity</b>	20% to 80% non-condensing
<b>Operating Temp.</b>	5°C to 40°C (41°F to 104°F)
<b>Non-operating Temp.</b>	-25°C to 60°C (-13°F to 140°F)
<b>Physical Dimension</b>	485(W) x 565(D) x 132(H) mm
<b>Packed Dimension</b>	610(W) x 790(D) x 450(H) mm
<b>Safety Regulatory</b>	UL, CUL, CB
<b>EMC Standard</b>	FCC, CE, C-Tick, BSMI
<b>Physical Weight</b>	24Kgs (without drives)
<b>Packed Weight</b>	33Kgs (without drives)

\* Specifications and product offerings may vary without notice.  
\* Various trademarks belong to their respective owners.



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