

iSCSI RAID Subsystem



SS-4503S
SA-4503S
SA-4303S



SS-6603S
SA-6643S

Overview

With proper configuration, the series subsystems can provide non-stop service with a high degree of fault tolerance by the use of RAID technology and advanced array management features.

Data Protection

Subsystems connects to the host system in iSCSI interface. It can be configured to any RAID level. It provides reliable data protection for servers and the RAID 6 function ready. The RAID 6 function allows two HDD failures without any impact on the existing data. Data can be recovered from the remaining data and parity drives. (Data can be recovered from the rest disks/drives.)

Snapshot-on-the-box

Snapshot-on-the-box is a fully usable copy of a defined collection of data that contains an image of the data as it appeared at the point in time, which means a point-in-time data replication. It provides consistent and instant copies of data volumes without any system downtime. Snapshot-on-the-box can keep up to 32 snapshots for all data volumes. Rollback feature is provided for restoring the previously-

snapshot data easily while continuously using the volume for further data access. The data access is regular as usual including read/write without any impact to end users. The "on-the-box" terminology implies that it does not require any proprietary agents installed at host side. The snapshot is taken at target side and done by subsystems. It will not consume any host CPU time thus the server is dedicated to the specific or other application. The snapshot copies can be taken manually or by schedule every hour or every day, depends on the modification.

The subsystems is the most cost-effective disk array controller with completely integrated high-performance and data-protection capabilities which meet or exceed the highest industry standards, and the best data solution for small/medium business (SMB) users.



Technical Specification

Host Channel / Model No.	SA-6643S	SA-4503S / SA-4303S	SS-6603S	SS-4503S
Host Interface	iSCSI	iSCSI	iSCSI	iSCSI
Data Transfer rate	Up to 1Gbps	Up to 1Gbps	Up to 1Gbps	Up to 1Gbps
Host Channel No.	2	2	4	4
External Connector Type	Ethernet	Ethernet	Ethernet	Ethernet
Daisy Chain	—	—	—	—
Expansion	—	—	Yes, Infiniband x 1	Yes, Infiniband x 1
Hardware				
Controller CPU	Intel IOP331	Intel IOP341	Intel IOP342	Intel IOP342
Cache Memory	512MB-1G	1G-2G	1G-2G	1G-2G
Disk Interface	SATA II	SATA II	SATA II / SAS	SATA II / SAS
Disk Channel No.	16	12 / 8	16	12
Hot Swap Disk Tray	3.5" swappable tray	3.5" swappable tray	3.5" swappable tray	3.5" swappable tray
Hot Swap P/S	460W x 2 Redundant	350W x 2 Redundant	460W x 2 Redundant	350W x 2 Redundant
AC Input Voltage	100 to 240V (+/-10%), 47 to 63 Hz			
Hot Swap Fan	2	2	2	2
RAID Functions				
RAID Level	0, 1, 0+1, 3, 5, 6, 10, 30, 50, 60, JBOD			
RAID Features	<ul style="list-style-type: none"> - Global and dedicated hot spare disks - Online volume expansion - Auto volume rebuilding - On-line volume migration - Multiple RAID volume support - Volume snapshot & Rollback - Access control in LUN usage: R/W & R/O - SCSI-3 compliant - CHAP authentication support 			
Management				
RAID Management	Console, SSH telnet, Web UI			
Management AP	Windows MPIO			
Event Notification	e-mail, SNMP trap, windows & browser pop-up, syslog			
Environment Specification				
Humidity	20% to 80% non-condensing			
Operating Temperature	5°C to 40°C			
Non-Operating Temperature	-25°C to 60°C			
Safety Regulatory	UL, CUL, CB			
EMC Standard	FCC, C-Tick, CE, BSMI			

*1. Notification through e-mail or SNMP trap is supported by Global-Net GUI

*2. Specifications and product offerings may vary without notice.