

SR2611-2S-S2+ is an internal RAID1 Mirroring data storage unit with superb performance providing fault-tolerance function and backup for two SATA-II Drives.



Features:

- Real-time backup:**
Backup data through RAID1 mirroring function to prevent loss of data due to hard drive failure.
- Large data backup:**
SR2611-2S-S2+ supports >2TB large capacity to save and backup critical data. **(RAID grade drives are recommended only)**
- Hot-Swap:**
A failed hard drive can be replaced without system power down.
- Maintain computer efficiency:**
Backup performance is based on HDD size and speed. It has little or no effect on the system performance.
- Driver-free and easy to manage:**
No driver. Easy to manage and monitor in time with LCD display or via Windows based GUI software.
- Alarm System:**
The system will monitor the hard disk, fan and temperature. In case of any failure, it sets the alarm on automatically.

Technical Specifications



Model No.	SR2611-2S-S2+
Microprocessor	RAIDON 2045 RAID ASIC
Host Interface	SATA II (300Mb/s)
Burst Transfer Rate	300MB/s
Support Hard Drive	SATA II (300Mb/s)
Support HDD Capacity	RAID grade drives are recommended only
RAID Level	RAID 1
Form Factor	2x 5.25" Device
Status Display	LCD Display & Buzzer
RAID Guide Platform	Windows Only
System Requirement	Windows / Linux
Cooling Fan	5.2cm ball bearing fan
Enviro. Temperature	0C~55C
Certifications	CE/FCC
Dimensions (mm)	146Wx220Dx85H
Weight (Kg)	1.3

SR2611-2S-S2+ Testing Report

Test Configuration:

- Supermicro X8SAX motherboard
- Intel i7-920 2.66GHz Quad Core CPU
- 2GB DDR31066 ECC RAM
- SR2611-2S-S2 Firmware Versions: V.091020.1
- 2x 250GB Seagate ES.2, 72K, 32MB Cache
- Tested using onboard SATA-II port with Intel CHR10
- Windows Server 2003 R2 x32
- NTFS default 4KB cluster/allocation size

Testing Procedure Results:

Hardware Detection Tests Connection

BIOS Visibility	Yes
OS Visibility	Yes
NTFS & Linux Format	Yes
Read/Write	Yes
Bootable	Yes
Linux Compatible (Fedora Core 4 tested) & Others	Yes

Rebuild Time

Idle (No Data Access)	Successful Mirror Hour for 250Gb	Rebuild Time
Primary > Secondary (SR2611-2S-S2+)	01:09:08	250GB / 69 min = 3.62GB/M
Secondary > Primary (SR2611-2S-S2+)	01:09:06	250GB / 69 min = 3.62GB/M

Data Transfer Rate and I/O Performance Tests

Data Access with Single Drive

64K Transfer Request Size	SR2611-2S-S2+	
	MB/s	IO/s
100% Sequential Read	84.90	1358.36
100% Sequential Write	54.33	869.27
100% Random Read	5.33	85.22
100% Random Write	15.58	249.35
50% Read & 50% Write with 50% Random & 50% Sequential	9.10	145.56

Data Access with Dual Drives in Mirroring Mode

64K Transfer Request Size	SR2611-2S-S2+	
	MB/s	IO/s
100% Sequential Read	65.99	1055.87
100% Sequential Write	40.29	664.67
100% Random Read	6.25	99.94
100% Random Write	14.61	233.82
50% Read & 50% Write with 50% Random & 50% Sequential	8.66	138.58

Data Access Dual Drives in Mirrored Mode

64K Transfer Request Size	SR2611-2S-S2+	
	MB/s	IO/s
100% Sequential Read	172.08	2753.24
100% Sequential Write	54.24	867.80
100% Random Read	5.32	85.17
100% Random Write	15.14	242.20
50% Read & 50% Write with 50% Random & 50% Sequential	9.07	145.18

Compatible Products

Both SR3611-2S-SB2 2-bay external eSATA+USB RAID1 and i303Tank single enclosure SR3611 eSATA+USB are compatible with SR-2611-2S-S2+. Both of these units are true SATA-II and use the same tray as SR-2611-2S-S2+.

SR3611-2S-S2 external unit has its own PSU and has similar performance and features to SR2611-2S-S2+.



SR3611 External 2-Bay SATA-II RAID1 Disk Mirroring with eSATA+USB2.0 Interface



i303Tank External Single SATA-II Drive Enclosure with eSATA+USB2.0 Interface