



InTANK
iR2623-S3
Internal 3 Bay SATA
6G RAID Storage

The iR2623-S3 model is a fault-tolerant hard disk array machine which is easy to install and hot-swappable while the power is on. It is suitable for applications such as professional personal workstations, important PC servers, etc. as real-time backup storage equipment.

Included software monitoring program to easily view hard disk status

In the iR2623-S3, in addition to the back light screen that can display the RAID module status, for Windows users, a software monitoring program is also provided. It allows users to understand more detail information about the RAID module, such like the drive model no., capacity and the S.M.A.R.T. information. Even better, after setting the monitoring program, it will take the initiative to send letters to users when the hard disk fails. This instant notification allows users to be aware of the situation as soon as possible to remedy the situation faster.

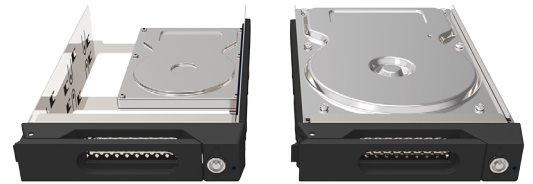
The iR2623-S3's disk array is made up of two 3.5" hard disks, augmented by a 2.5" hard disk or SSD extractable tray designed internally to diversify usage. Users can choose to use the SSD as the boot disk to speed up system performance and the 3.5" disk array as the data disk to protect data security. Users can also use the 3.5" disk array as the boot disk, and the 2.5" hard disk as the data disk to collaborate with other applications.

| Warning | | SMART - HDD2 : ST9160314AS | | | | Updates after 51 seconds |
|------------------------------|-------|----------------------------|-----------|--------------|--------|--------------------------|
| ID | Value | Worst | Threshold | RAW | Status | |
| 01-Raw read error rate | 95 | 93 | 6 | 00000683E79C | Good | |
| 03-Spinup time | 99 | 99 | 0 | 000000000000 | Good | |
| 04-Start/Stop count | 78 | 78 | 20 | 000000005A1F | Good | |
| 05-Reallocated sector count | 38 | 35 | 36 | 000000000502 | Alert | |
| 07-Sek error rate | 100 | 253 | 30 | 000000037C89 | Good | |
| 09-Power-on hours count | 100 | 100 | 0 | 000000000049 | Good | |
| 0A-Spinup retry count | 100 | 100 | 97 | 000000000000 | Good | |
| 0C-Power cycle count | 78 | 78 | 20 | 000000000596 | Good | |
| B0-End-to-End error / IDECC | 100 | 100 | 99 | 000000000000 | Good | |
| B1-Repaired Unrecoverable Er | 1 | 1 | 0 | 00000000001E | Good | |
| B2-Command Timeout | 100 | 89 | 0 | 001800210138 | Good | |
| B3-High Fly Writes | 100 | 100 | 0 | 000000000000 | Good | |
| BE-Airflow Temperature | 72 | 53 | 45 | 00001C18001C | Good | |
| BF-G-sense error rate | 99 | 99 | 0 | 0000000000FF | Good | |



Convenient and secure extractable hard disk module

The RAIDON exclusive hard disk trays are designed with a safety lock and secure architecture to lock the hard disk. It effectively maintains sensitive data and is easy to use. If the hard disk is corrupted, users do not have to worry about data maintenance and simply need to buy the same model hard disk with the same capacity to make a replacement. It can greatly reduce the wait time for machine maintenance. Even users who do not understand computer hardware can quickly maintain and replace it.



Good heat dissipation can extend the life of the hard disk

The iR2623-S3 is equipped with a 6-cm silent fan, by constantly creating air flow, heat generated by the high-speed rotation of the hard disk can be easily taken away. This maintains the normal operating temperature of the hard disk at all times. A longer life of your hard disk will properly protect your data.



High Performance or High Reliability

iR2623-S3 is equipped with 2 sophisticated RAID levels

Speed Mode



Total Volume **16TB**

To maximize data performance and add multiple drive capacity into one big volume. Data is distributed across multiple drives simultaneously to increase the performance. RAID 0 provides the highest RAID performance with no data redundancy nor fault tolerance.

Safe Mode



Total Volume **8TB**

To maximize data protection. Data is written identically to both drive (Mirror) simultaneously. In the event of a drive failure, the second drive will take over. RAID 1 provides the highest level of protection in hard drive storage.

Let the iR2623-S3 to protect your important data



Digital photo editing

The iR2623-S3 makes the system faster and digital photos more secure

The iR2623-S3 can be used as a workstation for photographers. Using the 2.5" hard disk slot to install the solid-state hard disk, the performance of the system can be faster, whether running PhotoShop or Lightroom, to edit photos or to search thumbnails. Moreover, by using the storage space constructed by the 3.5" RAID 1, it is suitable for gamers to save large amounts of original RAW files as well as following-up completed files after editing.



Proposed work flow

1. Use the 2.5" SSD's high-speed performance to install computer systems and digital photo editing application. Use the 3.5" array (RAID 1 mode) as the data disk to store the original photos (RAW file or JPG file).
2. Use the image editing program to open the original file for editing, and save edited files back to the 3.5" array in order to protect data security.
3. Regularly transfer edited photos and original files older than 6 months into storage devices with larger capacity (such as GR5630...etc.) for long-term data preservation, and at the same time maintaining sufficient storage space within the 3.5"
4. array in the iR2623-S3 to save the follow-up work required.

Because people and scenery change over time, digital photographers must be sensitive to the importance of preserving digital photos because the majority of people and scenery are not available for re-shoots and business owners are not necessarily willing to invest in the re-shoots. Hence the long-term protection of these digital files is very important.

Digital video surveillance

Let the DVR device to install and use the iR2623-S3 easily

Take advantage of the durable solid-state hard disk to install your DVR operating system and use two hard disks with up to 8TB capacity and RAID 1 to protect the long-term data. You can even use the iR2623-S3's hot swapping feature to extract the 3.5" hard disk periodically and to save it in the data center, then to put in a new hard disk so the iR2623-S3 can continuously perform instant backup.



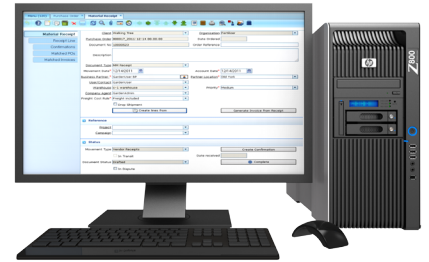
Proposed work flow

1. Adapt the 2.5" SSD or CF card into the 2.5" to install the DVR system.
2. Set the 3.5" array (RAID 1) as the video storage disk for long-term preservation of recordings.
3. Hot extract one of the 3.5" hard disks periodically and bring it back to the data center for data storage or archive. And place new hard disk to maintain the RAID 1 architecture and to record continuously.

Commercial accounting system database backup

Use RAID 1 for long-term protection of corporate accounting databases

Use the durable solid-state hard disk to install your server operating system and two hard disks with up to 8TB capacity at RAID 1 to protect accounting system databases long-term. Small and medium enterprises no longer need to worry about the unnecessary loss of accounting system data due to hard disk damage.



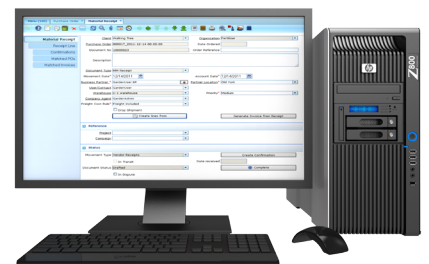
Proposed work flow

1. Use the 2.5" SSD to install the server's operating system.
2. Set the 3.5" array (RAID 1) as the accounting system database, in order to backup required data long-term.
3. If the hard disk is damaged in the RAID 1 module, you just need to buy a hard disk with the same specifications to replace it, and you can continue to back up the data without waiting for maintenance.
4. You can periodically backup the database to external storage systems (such as GR3660 or GR5630 etc.), in order to avoid the lengthy process of transferring databases due to damages caused by other components within the server.

Maintain automation equipment system

Use RAID 1 to maintain stable operation of automation equipment

The advantage of automation equipment is in its production efficiency. In high-speed production processes, the matter worried most is system failure. System failure will cause a shut down of an automated production line. Production loss during these shutdowns is far greater than business owners can image. By using the iR2623-S3 RAID 1 module, you can protect automation systems long-term operation and do not have to worry about halts in automated production equipment due to hard disk damage. This is the most cost-effective equipment choice. From small-scale CNC machining to large-scale semiconductor manufacturing processes, the RAID 1 module is recommended to protect the long-term operation of systems and achieve high production efficiency.



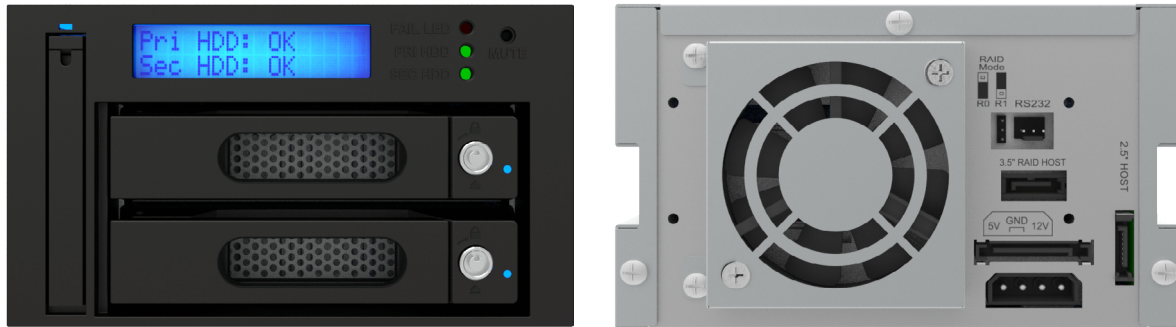
Proposed work flow

1. Use the 3.5" array (RAID 1) to install the automation system to maintain long-term operation of the automated system.
2. Every two years, you should renew the hard disks regularly used to ensure that hard disks with similar specifications can be found if the hard disk is damaged.

With the understanding of the transmission performance of the iR2623-S3, in accordance with your own needs, you can select the required hard disk application mode.

- RAID 1 mode is the most secure. For fields which require high data security, it is the most appropriate storage mode.
- RAID 0 mode is appealing for its transmission speeds. It can accelerate the access speed of data, but it is not secure.
- The 2.5" SSD (Solid State Disk) provides fast transmission, anti-vibration, and is power-saving. For specific computer platforms, it is a very good choice.
- The 2.5" hard disk is small, has a lower power consumption, and the price is more advantageous than the SSD while having the same capacity.

Products Views



Specification

| | |
|---------------------------------------|--|
| Model No | iR2623-S3 |
| Interfaces | 6Gbps SATA III 1 Ports (3.5" RAID Module) + 6Gbps SATA III 1 Ports (2.5" HDD/SSD) |
| Compatible Drive | 2 x 2.5"/3.5" SATA III (6.0 Gbits) HDD/SSD + 1 x 2.5" SATA III (6.0 Gbits) HDD/SSD |
| Storage Mode | RAID 1 or RAID 0 (3.5" RAID Module) + Independent volume(2.5" HDD/SSD) |
| Operating System | Windows, Linux |
| Function Control Interface | GUI (Windows Only) |
| Cooling System | 6 cm Low noise fan |
| Electrical and Operating Requirements | * Line voltage: 12V + 5V DC * Maximum continuous power: 60W * Operating temperature: 50° to 95° F (10° to 35° C) * Storage temperature: -4° to 116° F (-20° to 47° C) * Relative humidity: 5% to 95% noncondensing |
| Size and Weight | 148 mm (W) x 84 mm (H) x 202 mm (D) , 1.2 Kg |
| Product Code | EAN: 4711132864984 UPC: 884826503668 |
| Carton | 8 pcs per carton |
| Package Accessories | * iR2623-S3 x 1 * SATA Cable x 2 * Internal RS232 cable x 1 * External RS232 cable x 1 * Software CD * Accessory kit * Quick Installation Guide |

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