Raidon iR2302 Dual-Drive RAID and 1×3.5-inch JBOD Bay Internal Storage

Same form factor as CD-ROM drive, accommodates dual 2.5" SATA disk RAID configuration, alongside single independent 3.5-inch bay.

Raidon Technology, Inc. announced the iR2302 dual drive RAID Internal storage.

Designed with the dimensions of a CD-ROM drive, the iR2302 changes storage by supporting multiple RAID configurations for 2x2.5" SATA SSDs.

By designating 1xSSD as the primary boot disk, it ensures uninterrupted operations while offering real-time backup features. Furthermore, it comes with a standalone 3.5-inch bay, compatible with both 3.5-inch and 2.5-inch SATA HDDs or SSDs, dedicated to data backup. This positions the iR2302 as a versatile and dependable choice for storage and backup needs.

Features and benefits:

- **Independent stand alone 3.5" drive bay:** Flexible data management like never before, coupled with hot-swapping capabilities for uninterrupted workflows.
- **CD-ROM drive equivalent form factor:** Company's design team has outdone themselves. The iR2302 boasts a sleek design that fits snugly into a single CD-ROM bay, merging functionality with style.
- **Universal compatibility:** Whether you're using 2.5″ SATA HDDs or SSDs, the iR2302 ensures you're covered, offering versatility in usage.

JBOD independent 3.5-inch bay

RAID setup

JBOD | RAID BIG | RAID 0 | RAID 1

- **Intensive multiple RAID modes support:** Tailor your storage as per your needs. With support for RAID-1, RAID-0, JBOD, and SPAN, you're in control.
- **Extensive storage configuration:** The independent 3.5-inch bay feature amplifies flexibility and gives control over storage and management.

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- **RAIDGUARD GUI software:** Enhance your data protection and storage monitoring with firm's proprietary software. (Compatible with Windows only)
- **Hot-swappable and plug-and-play**: No system interruptions. Easily replace or upgrade drives on-the-go.
- **Key lock feature:** The built-in key lock feature ensures your drives are safeguarded.
- **Efficient heat dissipation with silent fan:** Performance doesn't come at the cost of noise. A silent fan ensures the device runs at optimum temperatures, silently.
- **LED light indicator for drive monitoring:** Stay informed with the LED light indicators that provide real-time drive status.
- **Easy access RAID mode switch on back panel:** Switching between RAID modes is easy.
- **Durable metal construction:** Built to last. The metal construction guarantees long-lasting performance and durability.

Don't just store data, manage it with finesse. The iR2302 is not just a product; it's a promise of quality, innovation, and

RAID for Data Security

(1) 3.5" - 2.5" HDD/SSD for Operation System + RAID for Data Safety

reliability.

Applications

The iR2302, with its versatile features and robust construction, can find application in a variety of scenarios:

- **SMBs**: For businesses with growing data storage needs, it offers an efficient and compact solution for backup and redundancy.
- **Workstation users**: Professionals in data-intensive fields like graphic design, video editing, or 3D modeling could benefit from the speed and reliability of the iR2302's RAID configurations
- **IT infrastructure**: It can serve as a key component in servers, data centers, and other IT environments that require HA and data integrity.
- **Educational institutes and research facilities**: It can be used for storing and managing large amounts of research data, providing both speed and redundancy.
- **Home use:** Tech-savvy home users or home office setups would find the product useful for managing personal data, media libraries, or as a part of a home server.
- **CCTV and surveillance systems**: The device's large storage capacity and RAID functionalities make it for use in CCTV and other surveillance systems that require constant data recording and backup.
- **Healthcare facilities**: Medical institutions with the need to store large volumes of patient data, including imaging data like MRIs and CT scans, could make use of the device.
- **Audio/Video production houses**: It could be used to store large files, edit videos in real time, and ensure that no data is lost in the event of a drive failure.

Data On The Move

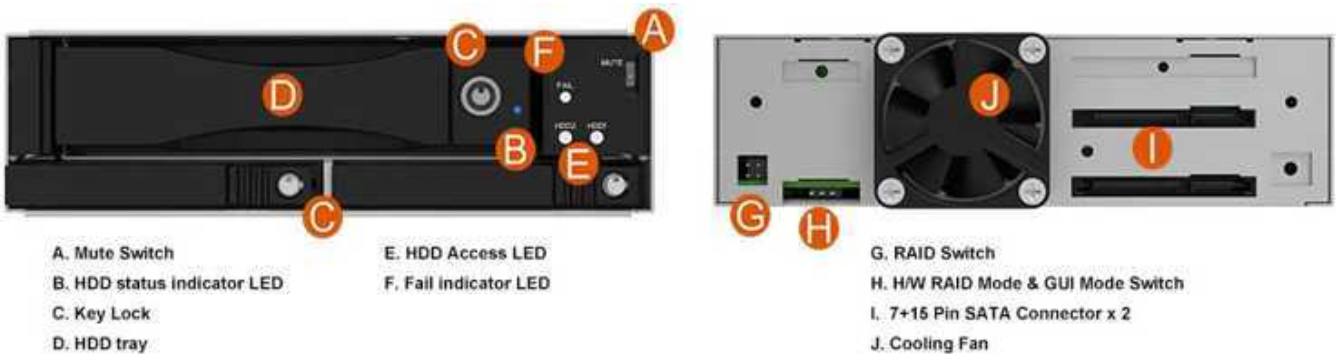(2) RAID for Operation System + Additional HDD/SSD for Data Offsite Backup

The iR2302, with its dual-drive RAID configuration and dedicated backup bay, is particularly for applications where data integrity, redundancy, and continuous uptime are crucial.

Here are some potential applications for IPC (Industrial PC) using the iR2302:

- **Industrial automation**: In manufacturing lines and automated systems, where data related to processes, quality control, and machinery status is generated continuously, the product can ensure that no data is lost even if one drive fails.
- **Surveillance systems**: For IPCs that manage security and surveillance systems, the RAID configuration can

ensure continuous recording without data loss, and the additional bay can be used for long-term archival storage.

- **Healthcare and medical imaging**: IPCs in healthcare settings, especially those managing medical imaging like MRIs and CT scans, can use the device to ensure patient data and images are backed up in real-time.
- **Data acquisition systems**: IPCs that handle large volumes of data from sensors, telemetry, or other sources can benefit from the redundancy and backup features of the product.
- **Retail and POS systems**: IPCs in retail environments can use the device to ensure transaction data is safely stored and backed up, minimizing potential downtime or data loss during peak business hours.
- **Transportation and fleet management**: IPCs monitoring transportation systems, such as trains, buses, or fleets of vehicles, can use the unit to continuously record and back up route, maintenance, and telematics data.
- **Energy and utility managemen**t: For IPCs monitoring electrical grids, water supply systems, or other utilities, the product can ensure that all data logs are redundantly stored and easily accessible for analysis or reporting.
- **R&S labs**: In R&D environments, where experimental data is precious, it can be used to ensure every piece of data is stored and backed up securely.
- **Digital signage and content delivery**: IPCs that manage digital signage or content delivery networks can benefit from the product's redundant storage, ensuring continuous playback without interruptions.

- **Server and network management**: IPCs that act as network or server monitors can use the device to store logs, performance metrics, and backup configurations.

A. Mute Switch
B. HDD status indicator LED
C. Key Lock
D. HDD tray

E. HDD Access LED
F. Fail indicator LED

G. RAID Switch
H. H/W RAID Mode & GUI Mode Switch
I. 7+15 Pin SATA Connector x 2
J. Cooling Fan

Specs:

Model ≠	iR2302
RAID chip	ASMedia 1092R
Interfaces	2x6Gb SATA ports (1 for 2.5″ HDD/SSD RAID module 1 for 3.5″/2.5″ SATA HDD/SSD JBOD)
Compatible drives	1. 1 x 3.5″ Tray >> For 1×3.5″/2.5″ SATA HDD/SSD 2. 2 x 2.5″ Tray >> For 2×2.5″ SATA HDD/SSD
Storage level	RAID 0/1/JBOD/Big + Independent volume (3.5″/2.5″ SATA HDD/SSD)
System monitoring	Fan failure / overheat
OSs	Windows, Linux

Function control interface	GUI (Windows Only) GUI RAID Mode Support RAID-1/RAID-0/SPAN (BIG) * RAID modes can be set through the GUI monitoring program
Cooling system	4cm Low noise fan
Dimension and weight	146(W)x 42(H) x 198(L) mm
Package accessories	*iR2302 *SATA Cable x 2 *Accessory Kit-for Tray *Accessory Kit-for Case *Quick installation guide