

Raidon Technology Launches SR4-B32 4-Bay USB-C Hardware RAID Storage

Supports USB 3.2 Gen 2x2 (20Gb), hardware RAID-5 and 150W internal power, plug-and-play support for Windows, macOS, and Linux.

[Raidon Technology, Inc.](#) launches the [SR4-B32](#), a 4-bay hardware RAID enclosure engineered for professional workflows that demand data protection and high-bandwidth USB-C connectivity.



It supports **USB 3.2 Gen 2×2 (up to 20Gb)** and connects to **Thunderbolt 3/4 computers via their USB-C ports as a USB storage device**, as well as USB 10Gb/5Gb hosts.

A dedicated hardware RAID controller enables RAID-5 protection (plus BIG, JBOD, and RAID-0). For continuous-duty reliability, the SR4-B32 integrates a 150W internal PSU, active cooling, and hot-swappable, lockable drive trays.

Features:

Interface and Performance:



- **Connectivity:** USB Type-C (USB 3.2 Gen 2×2).

- **Thunderbolt 3/4 Host Use:** Compatible via TB3/TB4 USB-C ports **as a USB storage device**.
- **Link Speed:** Up to **20Gb** (USB 3.2 Gen 2x2); **see FAQ Q7 for link-speed negotiation requirements**.

RAID and Data Protection:

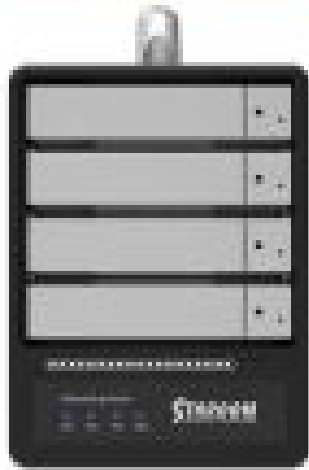


- **Hardware Controller:** RAID logic handled independently of host CPU.
- **Supported Modes:** RAID-0 (Striping), RAID-5 (Parity), JBOD (Independent), BIG (Spanning).
- **Fault Tolerance:** RAID-5 mode maintains data accessibility during a single drive failure.
- **Rebuild Logic:** Automatically initiates rebuild after inserting a replacement drive.

Hardware and Monitoring:

Windows Management GUI (Windows only):

Tracks array status, alerts, and rebuild progress; RAID mode is configured via physical hardware controls only.



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- **Drive Support:** 4xSATA 3 (6Gb) bays supports 3.5" HDDs and 2.5" HDDs/SSDs.



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- **Visual Diagnostics:** LED indicators for Power, Drive Activity, and Drive Failure.

- **Rebuild Tracking:** 4-step progress LEDs (25% / 50% / 75% / 100%).



Rebuild Tracking:

4-step progress LEDs (25% / 50% / 75% / 100%)

- **Alert System:** Integrated buzzer for critical errors; includes a physical **Mute (ON/OFF)** switch.
- **Thermal Control:** 80mm cooling fan with a rear-mounted **High/Low speed switch**.

OS and Workflow Compatibility:



Plug-and-play support for Windows, macOS, and Linux

- **Desktop OS:** Plug-and-play support for Windows, macOS, and Linux.
- **Mobile Workflow:** Compatible with **Easy Data Vault** for direct backup/restore operations with USB-C iPhone and iPad devices.



Applications:

- DIT Ingest and Studio Handoff**
 Streamline the field-to-post pipeline. Technicians can ingest footage on-set using **Thunderbolt 3/4 laptops**, then physically transport the unit to the studio to plug into **USB 3.2 Gen 2x2 workstations**.
- Hybrid Mac and PC Project Drive**
 The ultimate cross-platform bridge. The SR4-B32 acts as a universal project volume that moves seamlessly between **Thunderbolt laptops** (for review/analysis) and **USB-C bench PCs** (for capture/editing). It eliminates the need for network transfers or adapters when exchanging assets between Engineering, Design, and Video teams.
- Portable RAID-5 'Archive Shuttle'**
 Safely transport massive datasets between office locations without the risk of a single drive failure causing data loss. The array maintains RAID-5 parity during transit; if a drive is damaged, the volume remains accessible in 'degraded mode' and rebuilds automatically once the drive is replaced.
- 4K/8K Video Post-Production**
 A high-throughput solution for video editing, rendering, and proxy generation. Whether serving as the primary project volume for a **docked laptop editing station** or a desktop tower, the SR4-B32 delivers the consistent bandwidth required for high-resolution media workflows.
- Scientific Research and Analysis**
 Reliable storage for critical data logging. Capture experimental data on a laboratory bench PC, then move the entire enclosure to a Thunderbolt-equipped laptop for analysis. The fault-tolerant design ensures that long-running datasets remain secure throughout the transfer process.
- Enterprise Backup and Archiving**
 A scalable target for workstation imaging and long-term asset retention. With high capacity and hardware redundancy, the SR4-B32 mitigates the risk of disk failure, making it an ideal local backup destination for small servers and creative workstations.

Frequently Asked Questions (FAQ):

Q1: How does the SR4-B32 compare with other STARDOM 4-bay storage models?

A: The SR4-B32 is the **hardware RAID** option in STARDOM's 4-bay lineup, adding RAID modes (including **RAID-5**) for data protection and sustained workflow continuity. By contrast, **ST4-B31** and **ST4-B32** are **JBOD** enclosures designed for independent-drive expansion (no RAID). For connectivity, all three use USB-C; SR4-B32 can also be used with **Thunderbolt 3/4/5 hosts** when connected as a **USB storage device** (performance follows USB negotiation).

Q2: Which RAID modes does the SR4-B32 support?

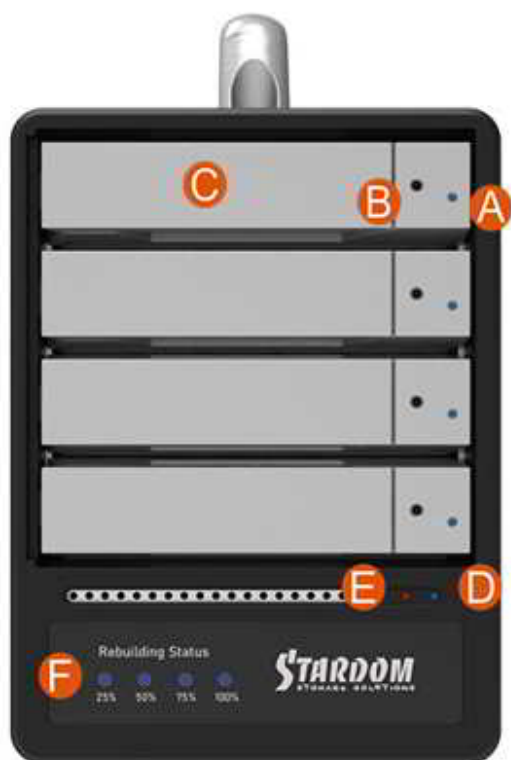
A: The SR4-B32 supports **BIG**, **JBOD**, **RAID-0**, and **RAID-5**, allowing you to optimize for capacity aggregation, independent volumes, maximum performance, or parity-based protection.

Q3: What happens if a drive fails in RAID-5 mode?

A: The array enters a **degraded state** but remains **accessible** (read/write performance may be reduced). Replace the failed drive with a compatible drive, and the controller will automatically initiate rebuild to restore redundancy.

Q4: What is the maximum transfer speed, and what affects real-world throughput?

A: SR4-B32 supports **USB 3.2 Gen 2×2 (up to 20Gb)**, but the actual link runs at the **highest USB mode supported end-to-end by the host port/controller, cable, and device** (20/10/5Gb). When used with **Thunderbolt 3/4/5 computers**, it connects as a **USB storage device**, so the same USB negotiation rules apply.



- A. HDD Status Indicator LED
- B. HDD Tray Key Lock
- C. HDD Tray
- D. Power Status Indicator
- E. System Status Indicator
- F. Rebuilding Status Indicator



- G. Mute Switch
- H. Fan Switch
- I. RESET Button
- J. RAID Mode Switch
- K. Power Switch
- L. Power Socket
- N. Cooling Fan
- M. USB 3.2 Gen 2x2 Type-C Port x 1
- O. Kensington Security Slot

Specs:

Model No	SR4-B32
Interfaces	USB 3.2 Gen 2×2 Type-C (Up to 20Gb)
Drive Bays	4 × SATA3 6Gb/s
Drive Compatibility	3.5" HDD, 2.5" HDD, 2.5" SSD
RAID Levels	RAID-0, RAID-5, BIG, JBOD

Power Supply	Internal 150W (AC 100–240V, 50-60Hz)
Cooling	80mm Fan (High/Low Speed Switch)
Status Indicators	Power, Drive Activity, Failure, Rebuild Progress
Audible Alarm	Yes (Mute Switch Available)
Enclosure Material	Aluminum / Metal Chassis
OS Support	Windows, macOS, Linux, iOS (iPad/iPhone via USB-C)
Package Contents	<ul style="list-style-type: none">• 1x SR4-B32 Enclosure• 1x USB 3.2 Gen 2×2 Type-C to Type-C Cable<ul style="list-style-type: none">• 1x Power Cord• 1x Accessory Kit (Drive Screws, Keys)• 1x Quick Installation Guide