SR4-B32+: 4-Bay USB-C Hardware RAID Storage with Direct RAID Control

USB 3.2 Gen 2x2 (20Gbps) | Hardware RAID | LCM Display & On-Device Management

See the Status. Manage the RAID. Directly on the Enclosure.

Overview

The SR4-B32+ is a 4-bay hardware RAID storage system designed for professional storage, backup, and media workflows requiring data protection, high-bandwidth USB-C connectivity, and direct RAID management.

Building on the SR4-B32 platform, the SR4-B32+ adds a built-in **LCM display and setup controls**, allowing users to view RAID status, drive information, temperature, fan speed, and rebuild status directly on the enclosure. RAID configurations can also be created or deleted without relying on host management software.

A dedicated hardware RAID controller supports RAID 0, RAID 5, BIG, and JBOD, while USB 3.2 Gen 2x2 provides connectivity up to 20Gbps.

The SR4-B32+ also features four lockable hot-swappable drive trays, an internal 150W power supply, active cooling, status LEDs, and audible system alerts for easier professional operation and maintenance.

Why Choose the SR4-B32+?

- **Direct RAID Control**
  View system status and manage RAID configurations directly on the enclosure through the built-in LCM display and setup controls.
- **Hardware RAID 5 Protection**
  A dedicated hardware RAID controller provides RAID 5 protection against a single drive failure without relying on the host CPU.
- **USB-C up to 20Gbps**
  USB 3.2 Gen 2x2 provides bandwidth up to 20Gbps while remaining compatible with USB 10Gbps and 5Gbps hosts.
- **Professional System Monitoring**

LCM information, drive LEDs, rebuild status, warning LEDs, buzzer alerts, and Windows GUI monitoring provide multiple layers of system visibility.

- **Easy Drive Maintenance**
  Four lockable hot-swappable trays simplify drive installation, replacement, and maintenance.

Key Features

1. USB-C Performance & Drive Support

- USB 3.2 Gen 2x2 Type-C, up to 20Gbps
- Compatible with USB 10Gbps and 5Gbps hosts
- Connects to compatible Thunderbolt™ 3/4/5 USB-C ports as a USB storage device
- Supports 4 × SATA III 6Gb/s drives
- Supports 3.5-inch HDDs and 2.5-inch HDDs/SSDs
- Lockable front-access hot-swappable trays

Actual transfer performance depends on the host connection, installed drives, RAID mode, file system, and workload.

2. Hardware RAID & Data Protection

The SR4-B32+ supports four hardware RAID modes for different professional storage requirements.

RAID 0

Maximum performance and usable capacity for high-speed working storage.

RAID 5

Balances performance, capacity, and protection against a single drive failure.

BIG

Combines multiple drives into one large logical storage volume.

JBOD

Provides individual drive access for workflows requiring separate storage volumes.

RAID provides protection against drive failure but does not replace a separate backup.

3. LCM Display & On-Device Management

More Visibility. More Control.

The built-in LCM display gives users direct access to important RAID and system information without depending solely on host software.

LCM Functions

- View RAID status
- Create RAID configurations
- Delete RAID configurations
- View drive capacity
- View drive temperature
- View supported SSD power-on count
- View supported SSD power-on hours
- Monitor system temperature
- Monitor fan speed
- Monitor RAID rebuild status

During read/write activity or RAID rebuilding, drive information may be limited to capacity.

If **“XXX”** appears for an information item, the installed drive does not support that information.

LCM Firmware Update Support
The LCM control firmware can be updated through a dedicated USB-C service port separate from the main storage connection, supporting system maintenance and future firmware updates.

4. Multi-Layer System Monitoring

The SR4-B32+ provides multiple ways to monitor system operation:

- Built-in LCM display
- Drive activity and failure LEDs

- RAID rebuild status through the LCM
- Warning LED for system alerts
- Audible buzzer for overheating and fan failure
- Physical buzzer Mute ON/OFF control
- Windows management GUI for RAID status, alerts, and rebuild monitoring
- 80mm cooling fan with High/Low speed control

5. Cross-Platform Storage

The SR4-B32+ supports storage access with:

- Windows
- macOS
- Linux

The Windows management GUI provides additional monitoring, while the built-in LCM allows essential RAID and system information to be accessed directly from the enclosure.

The SR4-B32+ can also connect to compatible USB-C iPhone and iPad devices through the **Easy Data Vault App** for supported mobile backup and restore workflows.

Designed for Professional Workflows

Professional storage often moves between systems, users, and locations.

The SR4-B32+ combines hardware RAID protection with direct enclosure-based monitoring, allowing users to check storage status without first opening a software utility.

Whether used in a studio, workstation environment, laboratory, or mobile production workflow, essential RAID information remains visible directly on the storage system.

One Enclosure. Four Drives. Hardware RAID. Direct Control.

Main Applications

1. DIT Ingest & Studio Handoff

Ingest footage on location and move the SR4-B32+ to the studio for editing, backup, or project handoff.

The LCM allows operators to check RAID and drive status directly before moving between systems.

2. Mac & PC Project Storage

Move project data between compatible Mac and Windows systems using one RAID enclosure.

The built-in LCM provides direct system information regardless of which supported host computer is connected.

Use a file system supported by both operating systems when sharing the same volume.

3. Transportable RAID 5 Storage

Move large datasets between studios, offices, laboratories, or production locations while RAID 5 provides protection against a single drive failure.

If one drive fails, the RAID array can remain accessible in degraded mode until the failed drive is replaced and rebuilt.

4. 4K / 8K Video Post-Production

Use the SR4-B32+ for:

- Video editing
- Rendering
- Proxy generation
- Media management
- Project storage
- Local backup

USB-C bandwidth up to 20Gbps and selectable RAID modes allow users to balance performance, capacity, and protection for different workflows.

5. Scientific Research & Analysis

Capture data on one workstation and move the enclosure to another compatible system for analysis.

The LCM provides direct drive and system information, while RAID 5 helps maintain data availability following a single drive failure.

6. Workstation Backup & Archiving

Use the SR4-B32+ as a local destination for workstation backups, project archives, and media libraries.

RAID 5 provides drive-failure protection, while the LCM, LEDs, and alert system simplify ongoing storage monitoring.

SR4-B32 vs. SR4-B32+

Both models share the same core 4-bay USB-C hardware RAID platform.

The SR4-B32+ adds an LCM-based management interface for users who want greater system visibility and more direct RAID control.

Feature	**SR4-B32**	**SR4-B32+**
USB Interface	Up to 20Gbps	Up to 20Gbps
RAID Modes	RAID 0 / 5 / BIG / JBOD	RAID 0 / 5 / BIG / JBOD
Hardware RAID	Yes	Yes
Drive Bays	4 × SATA	4 × SATA
Hot-Swappable Trays	Yes	Yes
Windows GUI	Yes	Yes
LED Monitoring	Yes	Yes
LCM Display	—	**Yes**
On-Device Information	LED indicators	**LCM + LED indicators**
RAID Configuration	Physical controls	**LCM display + setup controls**

Positioning	Standard	**Managed**
Best For	Professional RAID storage	**Users requiring direct RAID monitoring and control**

Frequently Asked Questions (FAQ)

Q1: What is the main difference between the SR4-B32 and SR4-B32+?

A: Both models use the same core 4-bay hardware RAID platform and support USB 3.2 Gen 2x2, RAID 0/5/BIG/JBOD, lockable hot-swappable trays, Windows monitoring, and a 150W internal power supply.

The **SR4-B32+ adds a built-in LCM display and setup controls**, providing more detailed system information and direct RAID management from the enclosure.

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

A: The SR4-B32+ supports RAID 0, RAID 5, BIG, and JBOD.

Q3: Can RAID be configured without installing software?

A: Yes. Users can create or delete RAID configurations directly through the built-in LCM display and setup controls.

Q4: What information can the LCM display?

A: The LCM can display:

- RAID status
- Drive capacity
- Drive temperature
- System temperature
- Fan speed
- RAID rebuild status

Compatible SSDs may also provide power-on count and power-on hours.

Q5: What does “XXX” mean on the LCM?

A: “XXX” indicates that the installed HDD or SSD does not provide the corresponding information.

Q6: What happens if a drive fails in RAID 5?

A: The RAID 5 array can remain accessible in degraded mode after a single drive failure.

Replace the failed drive with a compatible drive to rebuild the array.

A separate backup should still be maintained.

Q7: Does the SR4-B32+ support hot-swapping?

A: Yes. The four lockable front-access drive trays support hot-swapping for drive replacement and maintenance.

Q8: What happens when the USB cable is disconnected?

A: The LCM displays **"USB Disconnected"** and the setup buttons remain locked.

Normal LCM operation resumes after the USB connection is restored.

Q9: Can the SR4-B32+ connect to Thunderbolt™ 3/4/5 computers?

A: Yes. It can connect through compatible Thunderbolt™ USB-C ports as a USB storage device.

The SR4-B32+ is not a native Thunderbolt device, and actual connection speed depends on the USB capability of the host.

Q10: Can SATA SSDs be used in all four bays?

A: Yes. All four bays support compatible 2.5-inch SATA SSDs.

For RAID operation, drives of the same model and capacity are recommended.

Q11: Does RAID 5 replace a backup?

A: No. RAID 5 protects against a single drive failure but does not protect against accidental deletion, malware, enclosure damage, theft, loss, or multiple drive failures.

Important data should also be stored in a separate backup.

Q12: Can the LCM firmware be updated?

A: Yes. The SR4-B32+ includes a dedicated USB-C service port for LCM control firmware updates.

Product Specifications

Specification	**SR4-B32+**
Model No.	SR4-B32+
Product Type	4-Bay USB-C Hardware RAID Storage with Direct RAID Control
Interface	USB 3.2 Gen 2x2 Type-C, up to 20Gbps
Supported Drives	4 × 3.5-inch / 2.5-inch SATA III HDD/SSD
RAID Modes	RAID 0 / RAID 5 / BIG / JBOD
RAID Controller	Hardware RAID
LCM	RAID configuration, system status, drive information, temperature, fan speed, and rebuild monitoring
LCM Firmware Update	Supported via dedicated USB-C service port
Drive Trays	Lockable hot-swappable trays
Connectivity	USB-C PC and Mac; compatible Thunderbolt™ 3/4/5 USB-C ports as a USB storage device
Operating Systems	Windows 7 or later / macOS 10.10 or later / Linux
Windows Management	RAID status, alerts, and rebuild monitoring
Cooling	80mm fan with High/Low speed switch
System Alerts	Warning LED and buzzer for overheating and fan failure
Power Supply	Internal 150W, AC 100–240V, 50–60Hz
Certifications	CE / FCC / RoHS
Dimensions	210 × 124 × 166 mm (L × W × H)

Weight	3.4 kg per unit with packaging, excluding drives
Mobile Support	Easy Data Vault for compatible USB-C iPhone and iPad devices
Included Accessories	• 1x USB 3.2 Gen 2x2 Type-C to Type-C Cable • 1x Power Cord • 1x Accessory Kit (Drive Screws, Keys) • 1x Quick Installation Guide

SR4-B32+

- **Professional Hardware RAID. Now with Direct Control.**
- **Four Drives. Hardware RAID 5. One USB-C Connection.**
- **See the status and manage the RAID directly on the enclosure.**