



# LaCie 12big Rack Serial



**Direct-Attached, Expandable, Cutting-Edge Storage**

Up to 60TB

## Direct-Attached Storage

The LaCie 12big Rack Serial is perfectly suited for professionals who need a way to expand the storage of their workstation or server. By using a PCI SAS/RAID controller card, you can connect the 12big Rack Serial through a Mini SAS connection to your workstation to instantly receive 6TB or 12TB of storage space.

## Expandable

With room enough for up to 60TB\* of data in an accessible, reliable 12-disk JBOD array, the LaCie 12big Rack Serial is a convenient, robust way for organizations to expand their network's storage capacity. Best of all, it allows users to create 60 SATA or 92 SAS disk arrays by daisy-chaining several LaCie 12big Rack Serials, without incurring any extra costs. All necessary accessories are included in the LaCie 12big Rack Serial box.

## Inline Monitoring

The 12big Rack Serial supports SES (SCSI Enclosure Services) 2.0, which allows you to closely monitor the status of your disks and enclosure, so you can work confidently with the knowledge that your 12big is always operating under the best conditions. The SES 2.0 protocol works with you to warn in case of component failure.

## Enterprise Class Storage

To ensure the best quality, only Enterprise Class disks are used in the LaCie 12big Rack Serial, meaning that you can fully rely on the system to protect your data. They have been developed with rotational vibration resistance technology, helping them to be even more reliable and robust. Spare drives are also available on the LaCie website so users have the option to keep full protection for their data. 100% of the enclosures and 100% of the disks are tested before being included in the finished product.

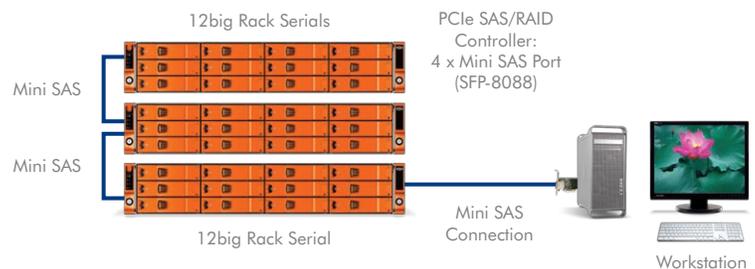
## Fully Redundant—Fully Reliable

In addition to the 12 hot-swappable disks and individually-tested enclosures, the LaCie 12big Rack Serial's I/O modules, Mini SAS links, two power supplies, and two cooling units can be replaced on the fly, providing the ultimate in redundancy and security. Within the 12big Rack Serial, there is no single point of failure.

# Case Studies: How the 12big Rack Serial Can Work for You

## Creative Suite

From the individual editor looking to build her own full-service suite to the larger post-production engineer seeking entry-level flexibility for his on- and offline jobs, the LaCie 12big Rack Serial offers an optimal return on investment. It's capable of accepting 12 enterprise class disks for superior performance, so an editor can experience superior speed and transfer rates up to 595 MB/s\*\*, without the requirement to conserve storage, due to a potential 12TB in a full enclosure. Further, it takes advantage of RAID 50\*\*\*, providing dependability without sacrificing performance, since media is safe—even in the event of a damaged drive. Whether you're working with a large, media-intensive offline edit such as a feature film or an online HD conform and color correction for commercials and corporate videos, the 12big Rack Serial provides the capacity, speed, and security mandated for the most challenging projects with the option for storage expansion in the future.

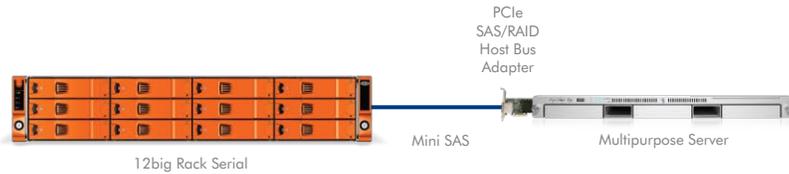


- One workstation attached to one or more 12big Rack Serials
- Incredible speed and large capacity for the most challenging HD, film, and video off- and online projects
- Compatible with multiple levels of RAID when connected to a RAID host bus adaptor<sup>†</sup>, ensuring media integrity in the event of drive failure
- Scalable storage up to five enclosures<sup>††</sup>

## Server-Attached Storage Solution

The IT manager entrusted to build a network solution that requires secure, stable storage need look no further than LaCie 12big Rack Serial. Economy meets flexibility with the option to start small and grow at the pace of an office. Begin with as little as 6TB, knowing that expansion is effortless since each LaCie 12big Rack Serial enclosure has 12 slots ready for use. If one enclosure is filled, simply daisy chain an additional unit to suit the increased demand for storage.

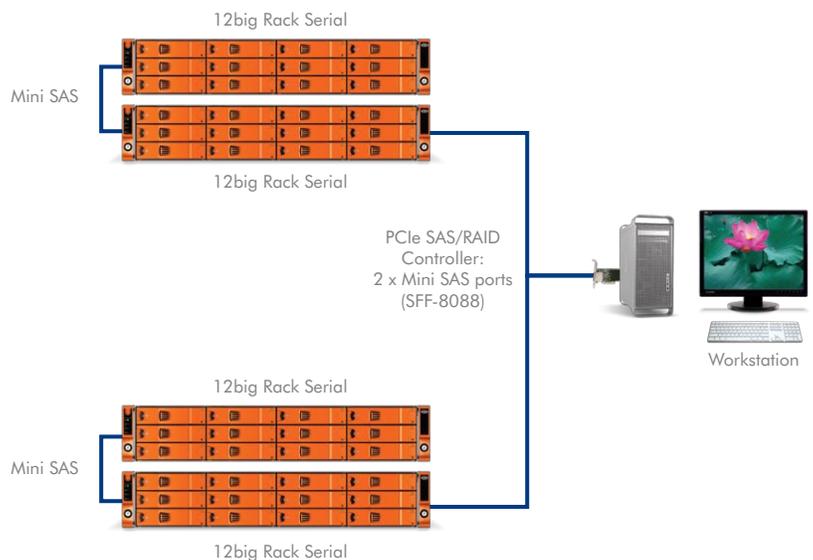
Performance and security are crucial for any storage solution and the LaCie 12big Rack Serial offers assurances on both counts. Hardware redundancy remains critical in assuring operation during an unfortunate event which is why each unit has a dual I/O Module option, two power supplies, and two cooling units. Further, multiple levels of speed and protection are easy to customize when connected to a RAID host bus adaptor. On top of that, the LaCie 12big Rack Serial comes with high quality product control as each enclosure and disk is individually tested. The LaCie 12big Rack Serial is the ideal storage for all IT professionals seeking scalability and flexibility in an economical, 2U rack-mounted package.



- One server attached to one or more 12big Rack Serials
- Plentiful storage comes in a small package as each disk offers the capacity that your business needs
- Compatible with multiple levels of RAID when connected to a RAID host bus adaptor, ensuring file integrity in the event of drive failure
- Scalable storage up to five enclosures

## Post-Production Powerhouse

When uncompromising performance and abundant storage capacity are not up for debate, LaCie 12big Rack Serial rises to the occasion. With four enclosures hosting a whopping 48TB, even the most media-hungry projects will find room to spare. Turn a workstation from a simple link in the chain of content creation to a one-stop, turnkey suite. Using the software post-production package of your choice, such as Apple's Final Cut Studio or Adobe's Creative Suite, you can integrate all graphics, video, sound creation, and editing in one convenient location. Employing RAID 50\*\*\* (as RAID 5 at RAID controller level and RAID 0 at OS level) is an added safety feature that will guard the integrity of the media files in the event of disk failure. In fact, this configuration can withstand the simultaneous loss of four drives, one per chassis. Performance is also boosted when connecting to the storage using two of the controller's serial ports, producing astounding transfer rates up to 795 MB/s\*\*. Expandable, secure storage matched with boundless speed makes the LaCie 12big Rack Serial the ideal storage solution for the most media intensive projects.



- One workstation attached to four 12big Rack Serials via a two port RAID host bus adaptor
- Incredible speeds of up to 795MB/s and an enormous capacity of up to 48 SATA drives
- The ideal storage solution for a turnkey, HD post-production creative suite
- Compatible with multiple levels of RAID when connected to a RAID host bus adaptor, ensuring media integrity in the event of drive failure

## System Requirements

- PC or Mac or Server with a Mini SAS RAID controller
- Windows 2003 (IA32, EM64T, IA64)/ RedHat Linux AS4/EL5 (IA32, EM64T, IA64)/ SuSE Linux 9/10 (IA32, EM64T, IA64)/ Mac OS 10.4 and later

## Box Content

- LaCie 12big Rack Serial
- SFF-8088 to SFF-8088 Mini SAS cable (1m)
- Rack mounting rail kit
- UK, EU, US power cords

## LaCie 12big Rack Serial Performance\*\*\*

RAID Level	0		5	
Number of drives	6	12	6	12
Sequential Writes in MB/s	421	516	343	507
Sequential Read in MB/s	451	645	373	622

## LaCie 12big Rack Serial Accessories:

Accessory Name	Item #	Description
SATA spare drive	131003	LaCie spare 1TB LaCie 12big Rack enterprise drive with drawer <sup>■</sup>
SATA spare drive	131004	LaCie spare 2TB 12big Rack enterprise class drive
SAS spare drive	131064	LaCie spare SAS 600GB 12big Rack enterprise class drive with drawer
I/O module	131005	LaCie 12big Rack Serial I/O module (for replacement or redundancy) <sup>***</sup>
Cooling unit	131007	LaCie 12big Rack Serial/Fibre rescue cooling unit <sup>■</sup>
Power supply	131008	LaCie 12big Rack Serial/Fibre rescue power supply <sup>■</sup>
Mini SAS cables	131013	LaCie 2m Mini SAS cables <sup>**</sup>
FC cables	131014	LaCie 10m FC cables (LC connectors) <sup>**</sup>



## LaCie Advance Care Option

Because LaCie develops storage solutions that meet both the performance and security needs of professionals, we also offer complete product support and a range of services that ensure maximum peace of mind for the customer. Our LaCie Advance Care Option underscores LaCie's commitment to providing service and support that adds value to your investment.

A LaCie Advance Care Option is the ultimate time-saving solution, helping you get back to work and secure your data faster. Once a Technical Support representative determines that your product needs to be replaced, LaCie will ship you a replacement product immediately. You do not need to pay any freight costs, or even send us your drive first. With our suite of 12big products, the LaCie Advance Care Option comes standard.

## LaCie 12big Rack Serial

Capacity	6TB SATA enterprise class drives	12TB SATA enterprise class drives	24TB SATA enterprise class drives	7.2TB SAS enterprise class drives
Item Number	131000	131001	131002	131061
Controller	Single SAS I/O module			
Performance	Up to 795 MB/s**			
External Interface	Mini SAS (SFP 8088)			
Host/Expansion Interface	Mini SAS (SFP 8088)			
Error/Status Reporting	SES (SCSI Enclosure Services) 2.0			
Expansion	Through daisy chaining of several LaCie 12big Rack Serials			
Disk Drives	12 enterprise class drives per enclosure			
Device Types Supported	SAS, SATA II (3Gb)			
System Availability	Hot-swappable components: disk drives, I/O modules, power supplies and cooling modules			
Dimensions	Height: 87.9mm (3.46") 2 EIA units Width: 443.7mm (17.49") IEC Rack Compliant Depth: 550mm (21.65") Weight: 32.2Kg (71 lbs.) dual SAS I/O module configuration with drives			
Altitude, Power, and Temperatures	Operational altitude: 2,133m (7,000') Non-operational altitude: 12,192m (40,000') Voltage: 100-240VAC Frequency: 48 - 62 Hz Power consumption: 300W typical Temperature range: operating: 5° to 40°C (41° F to 104° F) Humidity operating: 10% to 80% non-condensing			
Shock and Vibration	Operational shock: 5g 10ms • sine Operational vibration: random .21grms 5-500Hz Non-op. shock: 30g 10ms • sine Non-op. vibration: random 1.04 grms 2-200Hz Relocation vibration: Swept Sine 0.9g 2-200Hz Acoustics: <58 dB LpA @20°C			
Warranty	Casing: 3-year limited Disks: 5-year limited			

\*1TB= 1000GB. 1GB = 1000MB. 1MB = 1,000,000 Bytes. Total accessible capacity varies depending upon operating environment (typically 10% less). Capacity and cache memory vary depending upon RAID mode.

\*\*These measurements are indicative and may vary by +/- 10%.

\*\*\*RAID protection requires external RAID PCI card.

†Mini SAS RAID host bus adaptor sold separately.

††The number of attached enclosures may change due to specific storage limitations of the Mini SAS RAID host bus adaptor.

†††These measurements were performed using IOMeter with an ATTO ExpressSAS R380 PCIe SAS / RAID controller card.

\*Hot-swappable.

\*\*Hot-swappable if the product is used with dual controller options and multipathing drivers.

