

### The Ultimate in High Performance & Flexibility



#### Features & Benefits

- Up to twice the data connectivity speed of 2G FC for the most demanding applications
- Simplified data management with high performance SAS and cost effective SATA in one system
- OS independent StorView software for centralized storage management
- Dual active RAID controllers with StorView Path Manager MPIO based multipath protection for continuous access
- Four 4Gb FC host ports and two 4x SAS storage ports for increased expandability
- Maximum investment protection with 1G and 2G FC infrastructure compatibility
- Optimal data transfer through SAS full duplex and point-to-point architecture
- Scalability up to 30TB for rapid business growth
- Fault tolerant, modular design with redundant, hot swappable components
- Online capacity growth through dynamic array and LUN expansion
- Up to 512 LUNs and greater than 2TB LUN support for maximum flexibility
- Restriction on Hazardous Substances (RoHS) Compliant

**The 5400 supports the most demanding applications, simplifies data management and provides maximum investment protection.**

The ever increasing demand for more information faster is driving businesses to higher performance, data intensive applications. With up to twice the connectivity speed, the 5400 4G Fibre Channel (FC) storage system supports the most demanding applications and simplifies data management by combining high performance SAS and capacity intensive SATA storage in one single system. The return on investment is further enhanced with StorView® centralized storage management and StorView Path Manager™ multipath protection software.

The 5400 provides up to twice the connectivity speed of 2G FC supporting the most data intensive applications including data mining, video streaming, medical imaging, remote replication and online transactions. Leveraging 4G FC fabric and loop architectures, the 5400 supports data environments from a single server to servers clustered together for additional high availability. The dual active RAID controllers provide four 4G FC host ports, up to 2GB of battery backed cache, separate cache coherency channels and StorView Path Manager MPIO-based multipath protection to ensure continuous data access. The 5400 is compatible with existing 1G and 2G FC infrastructure for maximum investment protection. The OS independent StorView management software provides a simple, intuitive user interface for automated configuration, remote management and monitoring, performance statistics and advanced diagnostics.

The ability to combine both SAS and SATA storage in a single system simplifies data migration from high performance SAS to cost effective SATA as the value of the data changes. The native SAS backplane delivers data transfer speeds three times faster than parallel SCSI through the SAS full duplex and point-to-point architecture. Expansion is quick and easy as the 5400 scales from 36GB to 30TB for rapid business growth. The 5400 provides the flexibility to create up to 512 LUNs and individual LUNs greater than 2TB. The feature rich 5400 includes non disruptive controller firmware upload and a fault tolerant, modular design with redundant, hot swappable controllers, disk drives, power supplies and cooling fans. The 5400 supports the most performance demanding applications, simplifies data management and maximizes IT resources with StorView management software.

To learn more about the 5400 offering or to see PAC Storage's wide range of storage solutions, visit the PAC Storage website at:

**[www.pacstorage.com](http://www.pacstorage.com)**

# PAC Storage 5400

## 4GB FC to SAS / SATA



### Technical System Specifications

<b>Host Interface (per controller):</b>	Two 4 Gb/s (400MB/s) Fibre Ports (SFF), 400MB/s per channel (800MB/s full duplex)	
<b>Host Fibre Channel Protocol:</b>	Supports point-to-point, loop and fabric (switched) topologies	
<b>Drive Interface Porting:</b>	Dual ported SAS (3 Gb/s), Single ported SATA (1.5 or 3 Gb/s). Dual ported SATA I & II using a multiplexer transition card	
<b>Redundant, Hot-Swap Components:</b>	Disk Drives, RAID Controllers, Power Supplies and Cooling Fans	
<b>Error/Status Reporting:</b>	SES (SCSI Enclosure Services)	
	<b>5402 Single Controller System</b>	<b>5402 Dual Controller System</b>
<b>Number of RAID Controllers:</b>	One (upgradable to two)	Two
<b>Cache Memory:</b>	512KB and 1GB	1GB and 2GB
<b>Dynamic Cache Tuning:</b>	Yes	Yes
<b>Variable Stripe Size:</b>	Yes	Yes
<b>Volume Sharing:</b>	Yes	Yes
<b>Number of LUNs Supported:</b>	512	512
<b>SAS Drive Support:</b>	SAS: 36GB, 73GB, 146GB and 300GB (10,000 and 15,000 RPM)	
<b>SATA Drive Support:</b>	SATA: 36GB (10,000 RPM), 250GB, 400GB and 500GB (7,200 RPM)	
<b>Maximum Capacity per System:</b>	6TB (12 x 500GB)	
<b>Maximum Capacity per Daisy Chain:</b>	30TB (60 x 500GB)	
<b>Expansion Chassis:</b>	RS1220 SAS to SAS/SATA JBOD single or dual I/O interconnect module	

#### RAID Protection Feature

- Up to 60 disk arrays with independent RAID level 0, 1, 5, 10, 50 and multi-drive failure support
- Dual Active/Active RAID controllers with Path Manager MPIO-based automatic failover/failback
- Multiple dedicated or global spares with automatic, host-transparent disk drive rebuild for continuous data protection
- Dedicated channels for mirrored write cache coherency with integrated battery backup unit
- RAID configuration is written to the disk drives and is exportable to a host file for easy configuration recovery
- Non-disruptive controller firmware upload (dual controller only)

#### Power Requirements

<b>Input Voltage:</b>	Auto-Sensing 85 - 264 VAC (load balancing with redundant power supplies)
<b>Input Frequency:</b>	47 - 63 Hz
<b>Maximum Input Current:</b>	4.5 Amperes at 85 VAC, 1 Amperes at 264 VAC
<b>Power Supply Rating:</b>	Redundant (optional) 350-watt (425-watt peak) power supplies units with PFC
<b>Maximum BTUs per Hour:</b>	1,194 BTUs per system
<b>Power Source:</b>	2 US standard independent power cords

#### Emissions Compliance

<b>Emissions:</b>	FCC Part 15 Class A, CISPR 22, EN55022-A, BSMI, VCCI, C-TICK
<b>Agency Certification:</b>	CAN/CSA C22.22 #60950-00, UL 60950 3rd Edition, CB IEC 60950 Edition 3
<b>CE Compliance (EMC):</b>	89/336/EEC EMC Directive, EN 55024
<b>Rackmount:</b>	W = 17.66" (44.9 cm), L = 20.64" (52.4 cm), H = 3.47" (8.8 cm), Wt = 35 lbs (15.9 kg)

#### Software

**StorView® Storage Management** for local or remote configuration and monitoring.

**StorView Path Manager™** for MPIO-based multipath protection for automatic failover/failback.

**Warranty:** Three-year return to factory hardware warranty with toll-free, 8/5 technical support and 90-day software warranty. Optional services and advanced warranty contracts are also available.

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