

RAIDFLEX™ 8000 Series FC - SAS / SATA RAID



The 8000 Fibre Channel hosted storage system add the most advanced front-end 4Gb/s Fibre Channel technology to time-proven design to offer enterprise-class RAID storage. With a combination of FC host connectivity and SAS backplane technology, this system is designed to improve productivity through data consolidation, availability, performance and scalability.

By combining well proven industry standard Fibre Channel host connectivity with next-generation SAS backplane technology, where both SAS and SATA drives may be addressed in one enclosure, growing organisations may take advantage of high performance and reliable data protection in a storage system which integrates into their existing, established Fibre Channel infrastructure, and may be shared across the organisation's network.

With two auto-negotiating 4Gb/s Fibre Channel host ports per controller, this system supports multiple hosts or connection to a storage area network, making it ideal for environments that want to deploy a DAS system, which will then seamlessly transition to a SAN when ready. Additionally, the 8000 is ideal for existing SANs because it integrates seamlessly into 1, 2 and 4Gb/s infrastructures, providing robust and reliable storage at an affordable price. When capacity or performance requirements change, the 8000's is scalable by daisy-chaining successive JBOD enclosures to address up to 48 drives in total.

With the Storage Manager software, SMBs, enterprise departments and remote offices are able to administer the 8000 with minimal IT expertise, allowing them to be self-sufficient and still get the most out of their storage. The 8000 is also an ideal system for a twin server clustering environment. By utilizing two active/active RAID controllers with mirrored cache, redundant components and automated I/O path failover, the 8000 system is well suited for two-node clusters where continuous application and data availability are key requirements.

Applications	Features
<ul style="list-style-type: none"> Enterprise Storage Performance driven HD Video Streaming Security and Surveillance Regulation Compliance Storage Disaster Recovery Storage Audio/Video Editing 	<ul style="list-style-type: none"> 2 x FC 4Gb/s ports per controller Daisy-chain expansion with JBOD units Up to 48 SAS and SATA drives RAID levels 0, 1, 0+1, 3, 5, 6 Dual Active-Active controller option Snapshot data management services



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Expanding Data Storage Solutions

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Simple installation and management

The Storage Manager ensures a friendly user interface from set-up to administration. Its web-like, task-based management interface simplifies installation, configuration and management. Online capacity expansion, volume creation and host-to-volume mappings gives the user control of their storage system and the ability to make quick changes when necessary. Email diagnostic alerts and Recovery Guru provide valuable trouble shooting assistance by diagnosing the system, alerting the administrator if a problem occurs and then providing the appropriate recovery procedure.

Premium features enhance flexibility

Key-enabled features provide additional functional functionality and replication when demanded; administrators add premium features to support data utilization and protection. Storage partitioning divides a system defining which host or host group may access each volume, enabling a range of hosts with different capacity, performance, or data protection demands to effectively share a single system. Volume Snapshot creates capacity-efficient, point-in-time volume images, providing a logical volume for such uses as file restoration and backup. Volume Copy creates a complete physical copy (clone) within a storage system. These clones may be assigned to any host and used for application testing, development, information analysis or data mining.

4Gb Fibre Channel	
Models	
Designation	DPz3-88212f4-sc – 2U, 12 Drives, 4Gb Fibre Host, single controller DPz3-88212f4-rc – 2U, 12 Drives, 4Gb Fibre Host, dual controller
General	
Capacity (up to)	12 bay – 12TB
Supported OS	Win2K, 2K03 (32/64 bit), Linux 32/64 bit, RHE (AS, ES, WS), SUSE SLE
Powerconsumption	515 Watts (+ 5V @ 19A/+12 V @ 35A)
Performance	
Maximum burst I/O rate from cache	114,000 I/Os per second
Maximum sustained I/O rate from media	22,000 I/Os per second
Maximum sustained transfer rate from media	900 MB/s
Connections	
Host Channels	4Gb FC (2 ports per controller)
Ports	1x Serial (RS232C) firmware management 1x Serial (RS232C) UPS Monitor 1x Fast Ethernet (RJ45)
Expansion Ports	Mini SAS (One 3Gb SAS wide (x4) Exp. port)
Drive Channels	12 x SATA-II/SAS
RAID Controller	
No. of Controllers	x1 or x 2
Processor	Intel X-Scale (667 Mhz)
Memory	Standard 512MB with 1GB option
BBU	Optional (72hrs)
RAID levels	0, 1, 3, 5, 10
RAID sets	Max 12
RAID features	Automatic drive failure detection and rebuild with global hot spares Supports dual-active controllers with mirrored cache
Hot Swap Components	
Controller	Redundant hot-swappable controllers (only for DPz3-88212f4-rc)
Hot swap trays	12 x SATA-II/SAS
Power Supplies	2 x 350 W
Cooling Fans	2 x Turbo Fan
Management	
Monitoring Messaging	Buzzer, email, SNMP
Physical	
Dimensions (WxDxH) in mm	448 x 540 x 86
Weight (unpacked, w/o drives)	29kg
Environmental	
Temperature	Operating 10°C to 40°C Non operating –20°C to 60°C
Humidity	10~85%, non-condensing
Altitude	Operationg 0 – 10000ft Non-operating 0 – 20000ft
Designed to meet	
Quality standard	ISO9001
Health and Safety	UL, CUL, CB
EMC	FCC, CE, C-Tick, BSMI

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RoHs and WEEE compliant	Yes
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