

ES4200 DATASHEET

Versatile active-active SAN solution simplifies management and helps optimize IT workloads

Key Features

Enterprise Storage Platform

New ULTRASTOR® GEN4 platform delivers over 50% increase in performance, native VAAI support and powerful storage administration capabilities.

Flexible Disk Technologies

Combine disk technologies to meet I/O demands. Implement server-based tiering groups across near-line, 10K/15K and SSD SAS drives to optimize data workloads.

Powerful System Administration

Configure and provision storage for physical and virtual environments with easy-to-use browser-based system management.

Incremental Storage Expansion

Expand storage capacity without impacting system availability. Scale capacity up to 384TB.

Recommended for:

- VMware® VSphere 5
- Citrix® XenServer
- Microsoft Hyper-V
- Windows Server 2012
- SQL Database Applications
- Microsoft Exchange
- KOM Compliance Solutions
- ASP & SaaS Providers
- Public/Private Cloud Services
- CRM Solutions
- ERP Solutions
- Archive & Backup Workflows
- Digital Asset Management
- Rich Media Workflows

Fast, versatile, simple

ULTRASTOR® ES4200 series is a versatile and cost-effective hybrid SAN storage system using a mix of 3.5" near-line, 15K and SSD SAS drives. Featuring active-active RAID architecture, the ES4200 provides the highest level of performance, reliability and scalability in its class. The ES4200 supports up to 24 disks in a 4U rack and is easily expanded cost-effective JBOD shelves.

Optimize your data workloads

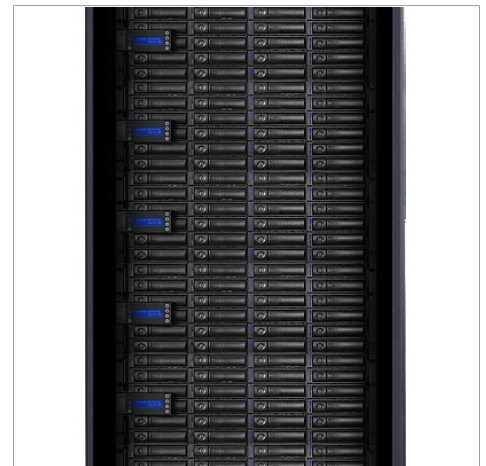
The ULTRASTOR® ES4200 supports a mix of drive technologies including near-line, 15K and SSD SAS into multiple storage tiers, allowing data migration between tiers without disruption. Built with enterprise hardware and software features, the ES4200 is fully optimized for today's physical and virtual data workflows.

Simple storage management

The ES4200 offers powerful and simple storage management. ULTRASTOR® ES4200's intuitive web based interface offers complete system management and monitoring capabilities via HTTP, HTTPS and SSH. Receive real time system notifications through email without additional software. SNMP support allows integration with existing SNMP-based monitoring environments.

Data center reliability

ULTRASTOR® ES4200 delivers the highest level of reliability for critical enterprise applications. The ES4200 features a next generation active-active



controller design adding full hardware redundancy and flawless fail-over capabilities for continuous system up-time. A comprehensive service and support plan includes a standard 3-year warranty, 1st year Advance Replacement (ARP) and optional On-Site Support contracts for added investment protection.

Advanced storage platform

New ULTRASTOR® GEN4 storage platform that delivers a significant increases in processing power by over 50% and adds full hardware iSCSI off-load acceleration - resulting in greater performance when used in high I/O applications. Additionally, the ULTRASTOR® GEN4 platform combines essential software updates including VAAI support for tighter VMware integration, writable Snapshots and Thin Provisioning for improved disk utilization and non-disruptive capacity expansion.

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Technical specifications

	ES4200TG	ES4200P6	ES4200FS
Max. Raw Capacity	384TB ^[1]	384TB ^[1]	384TB ^[1]
Max. Drives	96 ^[2]	96 ^[2]	96 ^[2]
Form Factor	Dual (2) Controllers 24-Disk, 4 RU	Dual (2) Controllers 24-Disk, 4 RU	Dual (2) Controllers 24-Disk, 4 RU
Memory	4GB / 8GB	4GB / 8GB	4GB / 8GB
Data I/O Ports	(4) SFP+, 10GbE iSCSI	(6) RJ45, 1GbE iSCS	(8) SFP, 8G FC
Disk Support	<ul style="list-style-type: none"> ● 2TB 7.2K NL-SAS (3.5" Low Profile) ● 3TB 7.2K NL-SAS (3.5" Low Profile) ● 4TB 7.2K NL-SAS (3.5" Low Profile) ● 600GB 15K SAS (3.5" Low Profile) ● 900GB 10K SAS (3.5" Low Profile) ● 800GB SSD (3.5" Low Profile) 		
Storage Protocols	10GbE iSCSI	1GbE iSCSI	8G Fibre Channel
RAID & Volume	<ul style="list-style-type: none"> ● RAID level 0 (0+1), 3, 5, 6, 10, 30, 50, 60 & JBOD ● Multiple array support ● Up to 4096 logical volumes ● Up to 64 disk drives per volume group ● Hot-swap drive support ● Global & dedicated spare drive assignment ● Non-disruptive online volume migration ● Online volume expansion 		
High Availability	<ul style="list-style-type: none"> ● Dual-active RAID controller ● Cache mirroring through high bandwidth channels ● Flexible RAID group ownership management ● Management port seamless take-over ● Online firmware upgrade, no system down time ● Multi-path & load-balancing support (Microsoft MPIO, MC/S, Trunking, LACP) 		
Host Connections	Up to 32		
Host OS Support	Windows 2000, Windows Server 2003, Windows Server 2008, Windows Server 2012, Windows XP, Linux®, Oracle Solaris, AIX, HP-UX, Mac® OS, VMware®, ESX		
Snapshot Features	<ul style="list-style-type: none"> ● Manual or Schedule ● Up to 32 Snapshots ● Snapshot roll-back mechanism ● Writable Snapshots ● Volume or file-level restore 		
Hot-swap Power	(2) 550W, 80 Plus Gold, load-balancing, hot-swap power modules		
Power Requirements	100~240 VAC, 50Hz~60Hz 10.0A~5.0A, 50Hz~60Hz (each module)		
System Cooling	(3) Hot-swap smart fan modules		
Operating Temperature	50°F ~ 104°F		
Relative Humidity	10% ~ 85% Non-condensing		
Weight	110 lbs (65 lbs without disk drives)		
Dimensions	(L) 21.5" x (W) 19" x (H) 7"		
Compliance	RoHS, CE, TUV, FCC		



Microsoft®
Hyper-V Server



Learn more

Go to <http://www.ultrastor.com/> to find out more about ULTRASTOR® SAN products and solutions.



How to buy

Americas

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Outside the US: (562) 777-3488

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[1] Usable capacity will vary with filesystem and RAID settings [2] Based on (1) ES4200 storage system and (2) expansion shelves