



Product Bulletin:

DS4243 Next-Generation Disk Shelf Launch

Revision History

15 September 2010 – Various part number updates and announcement of single shelf option (section 4)

2 April 2010 – Clarifications on cabinet types supported and minor updates

25 February 2010 – Configured cabinet support, updated availability

2 December 2009 – December release update, extended platform support and add-on availability, cabinet support remains unavailable

31 October 2009 – November release update

7 September 2009- Initial version

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This product bulletin informs NetApp sales and NetApp partners about new or changed NetApp® products or services.

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1. Summary

This product bulletin announces availability of the DS4243 disk shelf, NetApp's new 4U high 24-drive enclosure supporting either 15,000 rpm SAS or 7,200 rpm SATA drives. The new disk drives and field replaceable units (FRUs) associated with the DS4243 shelf are also included in this release.

The DS4243 initially appeared in the September eConfigurator release as an option for a limited set of new system configurations. With the December eConfigurator release, availability is now expanded to include all currently shipping supported platform types as well as add-on storage:

FAS3100 series
V3100 series
FAS6000 series
V6000 series
SA systems
FAS2040

Important Note Regarding Cabinet Support: Support for the DS4243 in factory-configured 30A cabinets is now available.

2. What's New?

The DS4243 is NetApp's next-generation SAS-architecture disk shelf, providing customers with increased storage density, resiliency, and power efficiency.

The DS4243 uses native SAS architecture and requires SAS connectivity to the platform controllers. New PCIe SAS adapter cards and copper SAS cables are being released with the DS4243 (see separate product bulletin). Existing Fibre Channel storage adapters and I/O cables (both copper and optical) are not compatible with the DS4243.

Additionally, new Ethernet cables are being released to support use of the Alternate Control Path (ACP) feature, which enhances the DS4243's resiliency and availability (see separate product bulletin). More information about the ACP feature can be found in the resources provided in section 3.

The DS4243 utilizes a new disk drive carrier design and bridging architecture. As a result, disk drives used in the DS4243 are not compatible for use in either the DS14 family disk shelves (both SATA and Fibre Channel versions) or the FAS2000 series controllers.

The DS4243 also requires new mounting hardware (either cabinet rail kits or rackmount hardware) that is backward compatible with previous-generation shelves and controllers. Legacy cabinet rail kits and rackmount hardware may not be used with the DS4243. Additionally, the new rackmount kit has now been separated into two-post (part number X5525A-R6) and four-post (part number X5526A-R6) versions. Please be certain to select the correct type for the installation environment.

The DS4243 is offered in half- and fully loaded configurations, giving customers the option of purchasing storage in 12- or 24-drive increments.

3. Sales and Customer-Ready Tools (Training, SE, Customer Presentations, Datasheets, Sales Guides)

The DS4243 Sales Kit, including presentations and FAQ, is available in the NetApp Field Portal:

https://fieldportal.netapp.com/myre_viewbinder.asp?id=691

Installation instructions and other related documents can be located in the Hardware Library on the NetApp NOW™ site:

http://now.netapp.com/NOW/knowledge/docs/hardware/hardware_index.shtml#Disk%20shelves

The "Site Requirements Guide" has been updated to include relevant specifications for the DS4243:

<http://now.netapp.com/NOW/public/knowledge/docs/hardware/NetApp/site/pdf/site.pdf>

The Storage Subsystem FAQ includes relevant information about the DS4243:

https://fieldportal.netapp.com/ci_getfile.asp?method=1&uid=24275&docid=9866

4. System Requirements

The DS4243 carries several key system requirements:

SAS ports are required. This requires the purchase and installation of a PCIe SAS adapter card (part number X2065A-R6).

SAS cables are required. These cables are offered in 0.5m, 2m, and 5m lengths. Note that the use of dual-path (for single-controller systems) or multipath high availability (for active-active systems) is mandatory with the DS4243. As a result, MPHA is no longer a deselectable option when a DS4243 is purchased.

NetApp highly recommends the use of Ethernet cables to connect the Alternate Control Path, although this is not required. Use of the ACP feature also requires one available Ethernet port per controller. ACP cables are available in 0.5m, 2m, and 5m lengths.

Beginning with the September 2010 eConfigurator release, customers will now have the option of configuring a single fully-loaded shelf (first drive type only) with an HA system.

Important Cable Note: Due to the diversity of available cable lengths and the wide range of potential configurations, NetApp strongly urges customers or their sales support representatives to examine quotes carefully to ensure they have the necessary cable (both SAS and ACP) quantities and lengths to connect purchased systems as intended, or to select additional cables as needed.

The DS4243 requires Data ONTAP® 7.3.2RC1 or a later version of Data ONTAP 7.3. The use of Data ONTAP® 7.3.3P2 and beyond is highly recommended due to the inclusion of important bug fixes.

Important Data ONTAP 8.0 Requirement Note: The minimum version of Data ONTAP 8 that supports the DS4243 is Data ONTAP 8.0RC3. The use of Data ONTAP® 8.0P1 and beyond is highly recommended due to the inclusion of important bug fixes.

5. Product Information

The following part numbers are for the various DS4243 types (disk shelf either half or fully loaded with disk drives) and associated mounting hardware options. The DS4243 is one of the options available in the Storage tab for supported FAS and V-Series systems. Note: When purchasing configurations utilizing SATA drives, the "IOM3" Storage Controller option should be selected in order to choose the DS4243.

Part Number	Description	Discount Category Code
DS4243-1507-24S-R5-C	DSK SHLF,24x300GB,15K,3Gb SAS,IOM3,-C,R5	B
DS4243-1504-12S-R5-C	DSK SHLF,12x300GB,15K,3Gb SAS,IOM3,-C,R5	B
DS4243-1511-24S-R5-C	DSK SHLF,24x450GB,15K,3Gb SAS,IOM3,-C,R5	B
DS4243-1505-12S-R5-C	DSK SHLF,12x450GB,15K,3Gb SAS,IOM3,-C,R5	B
DS4243-1507-24S-QS-R5	DSK SHLF,24x300GB,15K,3Gb SAS,IOM3,QS,R5	B
DS4243-1504-12S-QS-R5	DSK SHLF,12x300GB,15K,3Gb SAS,IOM3,QS,R5	B
DS4243-1511-24S-QS-R5	DSK SHLF,24x450GB,15K,3Gb SAS,IOM3,QS,R5	B
DS4243-1505-12S-QS-R5	DSK SHLF,12x450GB,15K,3Gb SAS,IOM3,QS,R5	B
DS4243-0748-24A-R5-C	DSK SHLF,24x2.0TB,7.2K,SATA,IOM3,-C,R5	B
DS4243-0724-12A-R5-C	DSK SHLF,12x2.0TB,7.2K,SATA,IOM3,-C,R5	B
DS4243-0724-24A-R5-C	DSK SHLF,24x1.0TB,7.2K,SATA,IOM3,-C,R5	B
DS4243-0712-12A-R5-C	DSK SHLF,12x1.0TB,7.2K,SATA,IOM3,-C,R5	B
DS4243-0748-24A-QS-R5	DSK SHLF,24x2.0TB,7.2K,SATA,IOM3,QS,R5	B
DS4243-0724-12A-QS-R5	DSK SHLF,12x2.0TB,7.2K,SATA,IOM3,QS,R5	B
DS4243-0724-24A-QS-R5	DSK SHLF,24x1.0TB,7.2K,SATA,IOM3,QS,R5	B
DS4243-0712-12A-QS-R5	DSK SHLF,12x1.0TB,7.2K,SATA,IOM3,QS,R5	B

X877B-R6-C	KIT,CABINET,SUPPORT RAIL PAIR,42U,-C,R6	A
X5525A-R6-C	Rackmount Kit,2-Post,DS4243,-CR6	A
X5526A-R6-C	Rackmount Kit,4-Post,Universal,-C,R6	A
X5525A-R6	Rackmount Kit,2-Post,DS4243,R6	A
X5526A-R6	Rackmount Kit,4-Post,Universal,R6	A

The following part numbers are for the disk drive types associated with the DS4243, as well as for mounting hardware options and key FRUs. These parts may be accessed through Add Parts.

Part Number	Description	Discount Category Code
X306A-R5	DSK DRV,2.0TB,7.2K RPM,3Gb,SATA,DS4243,R5	B
X302A-R5	DSK DRV,1.0TB,7.2K,SATA,DS4243,R5	B
X410A-R5	DSK DRV,300GB,15K,SAS,DS4243,R5	B
X411A-R5	DSK DRV,450GB,15K,SAS,DS4243,R5	B
X5712A-R6	IOM3,SAS,3Gb,R6	B
X556A-R6	SHELF,EMPTY,2PSU,7.2K,AC,DS4243,R6	B
X557A-R6	SHELF,EMPTY,4PSU,15K,AC,DS4243,R6	B
X5051-R6	BLANK,DSK DRV FILLER,DS4243,R6	B
X518A-R6	PSU W/FANS,580W,AC,DS4243,R6	B
X877B-R6	KIT,CABINET,SUPPORT RAIL PAIR,42U,R6	A
X5525A-R6	Rackmount Kit,2-Post,DS4243,R6	A
X5526A-R6	Rackmount Kit,4-Post,Universal,R6	A

Product Availability

DS4243 is now available for quotation with all currently shipping supported system types without restrictions.

- DS4243 for add-on storage is now available.
- DS4243 is now offered with 30A factory-configured cabinets. DS4243 is not offered for purchase in a factory-configured 20A cabinet due to the fact the 20A cabinet does not have sufficient outlets to support a full complement of shelves.

6. Regulatory Compliance

Products need to be validated against the NetApp Safety/EMI Regulatory Compliance List prior to order

submission. This is required to ensure that products are being sold only in the countries in which NetApp has received regulatory compliance certification. This information can be found in the Field Portal by searching under “Compliance, Policies and Procedures” or following the links below:

- [RoHS Compliance](#)
- [Safety/EMI Regulatory Compliance \(XLS\)](#)
- [WEEE Compliance](#)

7. Warranty and Service

Standard hardware warranty and services apply.

8. Additional Information

Contact Information: Please contact your NetApp sales or channel partner representative with questions concerning this bulletin.



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495 E. Java Drive, Sunnyvale, CA 94089 USA