



Double the current storage capacity of System Storage DS3950 and DS4000 series configurations with 2 TB/7200 rpm SATA II disk drive features - HVEC

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Overview

A 2000 GB (2 TB)/7200 rpm Serial Advanced Technology Attachment (SATA) II disk drive module (DDM) is now available for the IBM® System Storage™ DS3950 Express Disk System and selected models of the System Storage DS4000™ series Midrange Disk System.

These new 2 TB SATA II disk drive features can double the current storage capacity of DS3950 and DS4000 series configurations when using SATA disk drives and are available for the following models:

- DS4000 EXP810 Storage Expansion Unit (1812-81A and 1812-81S)
- DS4000 EXP420 Storage Expansion Unit (1812-8VA)
- DS4700 Express Models (1814-70A, 1814-70S, 1814-72A and 1814-72S)
- DS4200 Express Model 7V (1814-7VA)

Feature exchange

None

For ordering, contact your IBM representative, an IBM Business Partner, or IBM Americas Call Centers at 800-IBM-CALL (Reference: YE001).

Key prerequisites

The DS3950 disk system must be at firmware level 7.60.28.xx or later, to enable support for the 2 TB/7.2K SATA II disk drive option.

The DS4000 disk systems must be one of the following firmware levels to enable support for the 2 TB/7.2K SATA II disk drive options: 7.60.28.xx or later, 7.50.13.xx, 7.36.17.xx, or 6.60.22.xx.

The 2 TB/7.2K rpm SATA II enhanced disk drive module (feature number 4620, part number/SEO 59Y5536) is compatible with the following DS3950 and DS4000 series models:

- DS4000 EXP810 Storage Expansion Units (1812-81A and 1812-81S)
- DS4700 Express Models (1814-70A, 1814-70S, 1814-72A and 1814-72S)

The DS4200 2 TB/7.2K rpm SATA II enhanced-value disk drive module (feature number 4621, part number/SEO 69Y2690) is compatible with the following DS4000 series models:

- DS4000 EXP420 Storage Expansion Unit (1812-8VA)
- DS4200 Express Model 7V (1814-7VA)

Planned availability date

March 12, 2010

Accessibility by people with disabilities

A US Section 508 Voluntary Product Accessibility Template (VPAT) containing details on the products accessibility compliance can be requested at

http://www.ibm.com/able/product_accessibility/index.html

Section 508 of the U.S. Rehabilitation Act

The IBM System Storage DS3950 and DS4000 options are capable as of March 12, 2010, when used in accordance with IBM's associated documentation, of satisfying the applicable requirements of Section 508 of the Rehabilitation Act, provided that any assistive technology used with the product properly interoperates with it.

Product number

DS4000 EXP420 Expansion Unit feature

Description	Machine type	Model	Feature number
DS4200 2 TB/7.2K SATA EV-DDM	1812	8VA	4621

DS4000 EXP810 Expansion Unit feature

Description	Machine type	Model	Feature number
2 TB/7.2K SATA E-DDM	1812	81A,81S	4620

DS4200 Express Model 7V feature

Description	Machine type	Model	Feature number
DS4200 2 TB/7.2K SATA EV-DDM	1814	7VA	4621

DS4700 Express Models feature

Description	Machine type	Model	Feature number
2 TB/7.2K SATA E-DDM	1814	70A,70S, 72A,72S	4620

Single Entity Offerings (SEO)

Description	SEO number
2 TB/7.2K SATA E-DDM	59Y5536
DS4200 2 TB/7.2K SATA EV-DDM	69Y2690

Publications

A printed document that contains the safety, warranty, environmental, and electronic emission notices is shipped with the drive.

In addition, the most up-to-date product documentation is available and downloadable from the following IBM support site

<http://www.ibm.com/systems/support/storage/>

Services

Global Technology Services

IBM services include business consulting, outsourcing, hosting services, applications, and other technology management.

These services help you learn about, plan, install, manage, or optimize your IT infrastructure to be an On Demand Business. They can help you integrate your high-speed networks, storage systems, application servers, wireless protocols, and an array of platforms, middleware, and communications software for IBM and many non-IBM offerings. IBM is your one-stop shop for IT support needs.

For details on available services, contact your IBM representative or visit

<http://www.ibm.com/services/>

For details on available IBM Business Continuity and Recovery Services, contact your IBM representative or visit

<http://www.ibm.com/services/continuity>

For details on education offerings related to specific products, visit

<http://www.ibm.com/services/learning/index.html>

Select your country, and then select the product as the category.

Technical information

Specified operating environment

Hardware requirements

For a list of hardware requirements, refer to product documentation or visit

<http://www.ibm.com/systems/support/storage/>

Software requirements

For a list of software requirements, refer to product documentation or visit

Compatibility

The 2 TB/7.2K rpm SATA II enhanced disk drive module (feature number 4620, part number/SEO 59Y5536) is compatible with the following DS3950 and DS4000 series models:

- DS4000 EXP810 Storage Expansion Units (1812-81A and 1812-81S)
- DS4700 Express Models (1814-70A, 1814-70S, 1814-72A and 1814-72S)

The DS4200 2 TB/7.2K rpm SATA II enhanced-value disk drive module (feature number 4621, part number/SEO 69Y2690) is compatible with the following DS4000 series models:

- DS4000 EXP420 Storage Expansion Unit (1812-8VA)
- DS4200 Express Model 7V (1814-7VA)

Limitations

The DS3950 disk system must be at firmware level 7.60.28.xx or later, to enable support for the 2 TB/7.2K SATA II disk drive option.

The DS4000 disk systems must be one of the following firmware levels to enable support for the 2 TB/7.2K SATA II disk drive options: 7.60.28.xx or later, 7.50.13.xx, 7.36.17.xx, or 6.60.22.xx.

Before powering up the EXP810 Storage Expansion Unit, follow the installation and setup instructions provided with the unit. The EXP810 requires a minimum number of disk drive modules be installed in the unit before powering up. Refer to the EXP810 Storage Expansion Unit installation and setup instructions shipped with the machine for details.

Planning information

You are responsible for downloading or obtaining from IBM, and installing designated Machine Code (microcode, basic input/output system code (called "BIOS"), utility programs, device drivers, and diagnostics delivered with an IBM machine) and other software updates in a timely manner from an IBM Internet Web site or from other electronic media, and following the instructions that IBM provides. You may request IBM to install Machine Code changes; however, you may be charged for that service.

Cable orders

No cables required.

Direct customer support

Direct customer support for DS4000 Disk Systems is provided by IBM Operational Support Services--Support Line. This fee service provides voice and electronic access into the IBM support organization. IBM Operational Support Services--Support Line helps answer questions pertaining to product and feature usage ("how to"), configuration, and product compatibility for eligible products. For a list of the products supported via Support Line, visit

<http://www.ibm.com/services/sl/products/>

For more information on services, call 800-IBM-4YOU (426-4968).

Security, auditability, and control

This product uses the security and auditability features of host hardware.

The customer is responsible for evaluation, selection, and implementation of security features, administrative procedures, and appropriate controls in application systems and communications facilities.

IBM Electronic Services

IBM has transformed its delivery of hardware and software support services to help you achieve higher system availability. Electronic Services is a Web-enabled solution that offers an exclusive, no-additional-charge enhancement to the service and support available for IBM servers. These services are designed to provide the opportunity for greater system availability with faster problem resolution and preemptive monitoring. Electronic Services comprises two separate, but complementary, elements: Electronic Services news page and Electronic Services Agent.

The Electronic Services news page is a single Internet entry point that replaces the multiple entry points traditionally used to access IBM Internet services and support. The news page enables you to gain easier access to IBM resources for assistance in resolving technical problems.

The Electronic Service Agent™ is no-additional-charge software that resides on your server. It monitors events and transmits system inventory information to IBM on a periodic, client-defined timetable. The Electronic Service Agent automatically reports hardware problems to IBM. Early knowledge about potential problems enables IBM to deliver proactive service that may result in higher system availability and performance. In addition, information collected through the Service Agent is made available to IBM service support representatives when they help answer your questions or diagnose problems. Installation and use of IBM Electronic Service Agent for problem reporting enables IBM to provide better support and service for your IBM server.

To learn how Electronic Services can work for you, visit

<http://www.ibm.com/support/electronic>

Terms and conditions

MES discount applicable

Equal to the volume commitment discount

Field-installable feature

Yes

Warranty period

Three years

The feature assumes the same warranty or maintenance terms as the machine in which it is installed for the remainder of the warranty or maintenance period for such machine.

Customer setup

Yes

Machine code

Same license terms and conditions as base machine

Prices

Description	Machine type	Model number	Feature number	Initial/MES/Both/Support
2 TB/7.2K SATA E-DDM	1812	81A,81S	4620	Both
DS4200 2 TB/7.2K SATA EV-DDM	1812	8VA	4621	Both
2 TB/7.2K SATA E-DDM	1814	70A,70S, 72A,72S	4620	Both
DS4200 2 TB/7.2K SATA EV-DDM	1814	7VA	4621	Both

Option SEOs

Description	SEO number
2 TB/7.2K SATA E-DDM	59Y5536
DS4200 2 TB/7.2K SATA EV-DDM	69Y2690

SEOs

	List price
59Y5536	\$2,949
69Y2690	\$2,949

TMF (feature codes)

4620	\$2,949
4621	\$2,949

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<http://www.ibm.com/planetwide/us/>