

IBM System Storage 7214 Storage Device Enclosure



7214 Storage Device Enclosure

Highlights

- **Features a low-profile design that can be configured with up to three storage devices for installation in one EIA unit (1U) of a standard 19-inch server rack**
- **Offers the DAT72 and DAT160 4 mm format tape drives or DVD-RAM and DVD-ROM optical Serial SCSI (SAS) electronic bus**
- **Connects to high performance IBM System p™ servers**
- **Provides performance enhancements with the Serial SCSI SAS interface and a control card sensor to track hardware function**

Compact Design

Higher performance, delivered in the most compact and affordable packaging possible, is the increasing focus of server designs today. At the same time, these designs must provide save and restore compatibility with storage options offered on systems with larger footprints.

To meet these requirements, IBM offers the IBM System Storage™ 7214 Storage Device Enclosure. Featuring the latest technology options in tape and DVD drives, the 7214 Storage packaging is a low-profile, modular design. It is an excellent choice for rack-mount server applications.

Storage Enclosure

The 7214 storage enclosure is a one EIA (1U) design that features two drive bays that can hold one tape drive, a slim design DVD-RAM drive and a

DVD-ROM optical drive for a total of up to three drives. The 7214 storage device enclosure may also feature two tape drives. No more than two DVD drives may be featured in a single enclosure.

Connection of the 7214 enclosure to System p requires the PCI-X DDR Dual-x4 SAS Adapter (Feature # 5900 and 5912). Up to two 7214 enclosures may be attached to this adapter.

The new SAS electronic bus featured in the 7214 helps potentially provide higher through-put of drive data exchange on your System p server.

The 7214 also includes a control card sensor that can track hardware functions, and alerts the user regarding temperature and other operating conditions to help provide an available and reliable save and restore operation.

Warranty for the 7214 is one year. Service offerings include on-site service as well as a lower cost option for you to service the unit yourself during idle time of a save or restore operation.

Choice of Features

Drive options on the 7214 Storage Enclosure include:

- *Tape Drive features:*

- *DAT72 4 mm tape drive—Storage capacity of up to 72 GB with a data transfer rate of up to 6 MB per second (assumes 2:1 compression). The DAT72 tape drive has a SAS bus for improved throughput of data. The DAT72 drive is also read/write compatible with DDS-4, and DDS-3 media formats.*

- *DAT160 4 mm format tape drive—Storage capacity of up to 160 GB with a data transfer rate of up to 13.8 MB per second (assumes 2:1 compression). The DAT160 tape drive has a (SAS) bus for improved throughput of data. The DAT160 drive is also read/write compatible with DAT72, and DDS-4, media formats.*

- *Half-high LTO Ultrium 4 tape drive—Storage capacity of up to 1.6 TB with a data transfer rate of up to 240 MB per second (assumes 2:1 compression). The HHLTO4 tape drive has a (SAS) bus for improved throughput of data. The HHLTO4 drive is also read/write compatible with Ultrium 3 media, and read-only compatible with Ultrium 2 media.*

- *DVD Optical Drive features:*

- *DVD-RAM drive—Native capacity of up to 9.4 GB with a data transfer rate of 2.77 MB per second. With a typical 3:1 compression, a single disc can read and write up to 28 GB of data. The DVD-RAM drive is mounted in the DVD sled feature which has space for a second DVD-RAM or DVD-ROM drive. The DVD-RAM drive can read CD-recordable, CD-RW, and CD-ROM media.*

— DVD-ROM drive—Native capacity of up to 9.4 GB with a data transfer rate of 5.1 MB per second. With a typical 3:1 compression, a single disc can store up to 28 GB of data. The DVD-ROM drive is mounted in the

DVD sled feature which has space for a second DVD-ROM or DVD-RAM drive. A DVD-ROM drive can read DVD-RAM, CD-RW, CD Recordable, and CD-ROM media.

— DVD drives offered on the 7214 Storage Device Enclosure use bare media and support both synchronous and asynchronous data transfers. The DVD drives are compatible with 2.6 GB, 4.7 GB, 5.2 GB, and 9.4 GB media.

IBM System Storage 7214 Storage Device Enclosure at a glance

Characteristics

Number of storage devices	3 maximum (assumes one tape drive and two DVD drives)
Electronics	Serial SCSI (SAS) bus for enhanced data through-put Control card sensor to track hardware function
Typical compression	2:1 for tape drives; 3:1 for DVD optical drives
Color	Black
Warranty Options	One year
Service Offerings	1. 24x7 IBM on-site repair 2. Customer Replaceable Unit (CRU)

Physical characteristics

Dimensions	4.4 cm H x 44.6 cm W x 73.6 cm D (1.7 in x 17.5 in x 29.0 in)
Weight	11.0 kg (24.2 lbs)

Operating environment

Temperature	16 to 32 degrees C (0 to 80 degrees F)
Relative humidity	20% to 80%
Wet bulb (max)	23 degrees C (73 degrees F)
Wet bulb (max)	0.047 kVA
Power requirement	90 watt power supply
Acoustics (max)	5.6 bels

Software requirements

AIX® 5.3	<ul style="list-style-type: none"> — level 5L for POWER™ V5.3 with the 5300-07 Technology Level and Service Pack 4 or later — level 5L for POWER V5.3 with the 5300-06 Technology Level and Service Pack 7 or later — level 6.1 with Service Pack 1 & 2 — level 6.1 with 6100-01 technology and Service Pack 5 (required if HHLTO4 is installed in 7214 enclosure)
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Linux®

	<ul style="list-style-type: none"> — SUSE Linux Enterprise Server 10 SP1 for POWER Systems, or later — Red Hat Enterprise Linux for POWER V4.6, or later — Red Hat Enterprise Linux for POWER V5.1, or later
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IBM System p6 hardware adapter requirements
Feature #5900 and 5912

— PCI-X DDR Dual-x4 External SAS Controller Adapter



Drive options

Drive type: tape	DAT72	DAT160	HHLTO4
Media	4 mm tape	4 mm format	Ultrium 4
Native capacity	36 GB	80 GB	800 GB
Compressed Capacity	72 GB	160 GB	1.6 TB
Compatibility	DDS-4 DDS-3	DAT72 DDS-4	Ultrium 3 Ultrium 2 (read-only)

Drive options

Drive type: DVD	DVD-RAM	DVD-ROM
Media	Bare discs	Bare discs
Native capacity	2.6 GB – 9.4GB	2.6 GB – 9.4 GB
Compressed Capacity	Up to 28 GB	Up to 28 GB
Compatibility	CD-RW CD Recordable	CD-ROM

For more information

Please contact your IBM marketing representative or IBM Business Partner, or visit:

ibm.com/servers/storage/tape/enclosures/7214/model_1U2/index.html

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