IBM 7226 Model 1U3 Multi-Media Enclosure adds IBM LTO Ultrium 8 tape drive features for increased capacity and performance

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At a glance

IBM(R) Storage offers the new Half-high Linear Tape-Open™ 8 (HH LTO™ 8) higher capacity tape drive features to the list of LTO tape, RDX, and DVD storage options. The HHLTO8 tape drive features offer twice the capacity of the Half-high LTO7 (HHLTO7) tape drives currently available on the IBM 7226 Model 1U3 Multi-Media Enclosure.

The 7226 attaches to IBM POWER6(R), POWER7(R), and POWER8(R) servers, IBM PureFlex(R) systems, IBM BladeCenter models, and to Linux(R) and Microsoft(TM) Windows(TM) OEM systems.

Overview

IBM 7226 Model 1U3 Multi-Media Enclosure delivers external tape, removable disk drive, and DVD-RAM drive options intended to enable the storage, retrieval, and archival of critical business, technical, and scientific data in computer hardware facilities. The 7226 offers an expansive list of drive feature options.

The IBM 7226 Enclosure can accommodate up to two tape drives, two RDX removable disk drive docking stations, or up to four DVD-RAM drives.

Model 1U3 attaches to most IBM POWER6, POWER7, POWER8, IBM PureFlex systems, IBM POWER™, and BladeCenters, and to systems running Linux and Microsoft Windows.

The following LTO tape drive, DVD-RAM drive, and RDX removable storage device features are supported on the 7226:

- **Tape drive features:** Half-high LTO5 (HHLTO5), Half-high LTO6 (HHLTO6), HHLTO7, and HHLTO8 tape drives with Serial Attach SCSI (SAS) and Fiber Channel (FC) electronic interface options.
- **DVD-RAM features:** DVD-RAM drives with SATA/SAS and USB electronic interface options.
- **RDX3 removable disk drive features:** Removable hard disk capacity options include a 500 GB, 1 TB, and 2 TB, and attach to any available USB3 internal port.

These SAS, FC, and USB device features may be installed in the IBM 7226 dual-bay storage enclosure in any combination, and are supported on IBM POWER AIX(R),
IBM i, and Linux operation systems. The 7226 is also compatible with most OEM operating systems running Linux or Microsoft Windows.

**Key prerequisites**

**Mandatory software**

IBM 7226 Multi-Media Enclosure is compatible with most IBM POWER6, POWER7, and POWER8 systems, as well as IBM BladeCenter models (PS700, PS701, PS702, PS703, and PS704) and IBM PureFlex systems that offer current level AIX, IBMi, and LINUX operating systems.

**System support of IBM 7226 features**

IBM POWER Systems support all SAS, USB, and FC tape drives, DVD-RAM, and RDX removable drive features on the 7226.

IBM BladeCenters support DAT160, HHLTO5, HHLTO6, HHLTO7, and HHLTO8 SAS tape drive features, and also support attachment of RDX removable drive features on the 7226. BladeCenters do not support DVD-RAM device or LTO FC tape drive attachment.

IBM PureFlex systems support attachment of HHLTO5, HHLTO6, HHLTO7, and HHLTO8 FC tape drive features, DVD-RAM USB drive features, and RDX removable drive features. PureFlex systems do not support SAS tape drives and DVD-RAM devices.

For a complete list of host software versions and release levels that support the 7226, go to the IBM System Storage Interoperation Center (SSIC) website.

**Note:** All new IBM tape device drivers will be posted to the web through the Fix Central download portal. IBM maintains the latest levels of Storage tape drive and library device drivers and documentation on the Internet.

**Planned availability date**

December 8, 2017

**Description**

IBM Storage offers the HH LTO 8 higher capacity tape drive features to the list of LTO tape, RDX, and DVD storage options. The HHLTO8 tape drive features offer double the capacity of the HHLTO7 tape drives currently available on the IBM 7226 Model 1U3 Multi-Media Enclosure.

Model 1U3 attaches to most IBM POWER systems, IBM Blade servers, IBM BladeCenter models, and IBM PureFlex systems.

The following LTO tape drive, DVD-RAM drive, and RDX removable storage device features are supported on the 7226:

- **Tape drive features:** HHLTO5, HHLTO6, HHLTO7, and HHLTO8 tape drives with SAS and FC electronic interface options.
- **DVD-RAM features:** DVD-RAM drives with SATA/SAS and USB electronic interface options.
- **RDX removable disk drive features:** Removable hard disk capacity options include a 500 GB, 1 TB, and 2 TB, and attach to any available USB3 internal port.

These SAS, FC, and USB device features may be installed in the IBM 7226 dual-bay storage enclosure in any combination, and are supported on IBM POWER AIX, IBM i,
and Linux operation systems. The 7226 is also compatible with most OEM operating systems running Linux or Microsoft Windows.

The IBM 7226 Quad Cable feature allows the attachment of up to four SAS devices to a single POWER system HBA port, and provides easy implementation of multiple 7226 storage enclosures on one or more POWER systems.

### Product number

<table>
<thead>
<tr>
<th>Description</th>
<th>Machine type</th>
<th>Model</th>
<th>Feature number</th>
</tr>
</thead>
<tbody>
<tr>
<td>HHLTO8 SAS Tape Drive</td>
<td>7226</td>
<td>1U3</td>
<td>8541</td>
</tr>
<tr>
<td>HHLTO8 FC Tape Drive</td>
<td>7226</td>
<td>1U3</td>
<td>8546</td>
</tr>
<tr>
<td>Ultrium™ 7 Data Cartridge (5-Pack)</td>
<td>7226</td>
<td>1U3</td>
<td>8706</td>
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</table>

### Business Partner information

If you are a Direct Reseller - System Reseller acquiring products from IBM, you may link directly to Business Partner information for this announcement. A PartnerWorld ID and password are required (use IBMid).

BP Attachment for Announcement Letter 117-075

### Publications

The following publications are shipped with the product. Additional copies will be available after planned availability.

<table>
<thead>
<tr>
<th>Title</th>
<th>Order number</th>
<th>Part number</th>
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<tbody>
<tr>
<td>7226 Model 1U3 Multi-Media Enclosure Setup, Operator and Service Guide (English)</td>
<td>SA23-2271-11</td>
<td>46C2673</td>
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</table>

A CD containing multiple language translations.

- 7226 Model 1U3 Multi-Media Enclosure Setup, Operator and Service Guide (English)
- 7226 Safety Information
- 7226 Warranty Information

To access the IBM Publications Center Portal, go to the IBM Publications Center website.

The IBM Publications Center is a worldwide central repository for IBM product publications and marketing material with a catalog of 70,000 items. Extensive search facilities are provided. A large number of publications are available online in various file formats, which can currently be downloaded.

### Services

**IBM Systems Lab Services**

IBM Systems Lab Services offers a wide array of services available for your enterprise. It brings expertise on the latest technologies from the IBM development community and can help with your most difficult technical challenges.
IBM Systems Lab Services exists to help you successfully implement emerging technologies so as to accelerate your return on investment and improve your satisfaction with your IBM systems and solutions. Services examples include initial implementation, integration, migration, and skills transfer on IBM systems solution capabilities and recommended practices. IBM Systems Lab Services is one of the service organizations of IBM’s world-renowned IBM Systems Group development labs.

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For details on available services, contact your IBM representative or go to the IBM Global Technology Services® website.

For details on available IBM Business Continuity and Recovery Services, contact your IBM representative or go to the Resiliency Services website.

Details on education offerings related to specific products can be found on the IBM authorized training website.

Technical information

Specified operating environment

Software requirements

The 7226 Storage Enclosure is supported on AIX, IBM i, and Linux operating systems. VIOS 2.2 is required when attaching to IBM PureFlex systems using the IBM i operating system.

For a complete list of host software versions and release levels that support the 7226, go to the IBM SSIC website.

Planning information

Cable orders

SAS cables: At least one SAS external cable will be provided with each tape or DVD-RAM drive specified on the IBM 7226 Multi-Media Enclosure. Each SAS device attaches to a separate IBM POWER system or BladeCenter SAS HBA port; POWER6 and POWER7 feature numbers 5278, 5901, and 5912, POWER8 feature numbers EJ10, EJ11, and EL10, BladeCenter feature number 8246. IBM PureFlex systems do not support SAS devices.

If the availability of IBM Power® System SAS HBA ports are limited, a Quad External SAS Cable may be ordered by specifying feature number 5544. The Quad External SAS Cable enables the attachment of up to four SAS tape or DVD-RAM drive devices to a single POWER server. BladeCenters do not support the quad cable feature.

FC cables: One FC external cable will be provided with each HHLTO5, HHLTO6, HHLTO7, and HHLTO8 tape drive specified on the IBM 7226 Multi-Media Enclosure. Each LTO tape drive attaches to a separate FC HBA port (HBA features #5273 or
USB cables: One USB external cable will be provided with each USB drive or RDX docking station specified on the IBM 7226 Multi-Media Enclosure. Each USB device attaches to a separate IBM System USB port. USB device features on 7226 are supported for attachment to the internal USB ports on IBM POWER, IBM BladeCenters, and PureFlex systems. POWER systems also offer an external USB HBA (feature #2728 on POWER6 and POWER7 systems; feature #EC45 and EC46 on POWER8 systems).

See the Hardware Requirements section for individual drive and cabling requirements. Customers are advised to use only the cables provided by IBM.

Security, auditability, and control

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

IBM Systems Lab Services

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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.

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To learn how Electronic Services can work for you, go to the IBM Electronic Support website.

Terms and conditions

MES discount applicable

Equal to the volume commitment discount

Field installable feature
**Yes**

**Warranty period**

One year

To obtain copies of the IBM Statement of Limited Warranty, contact your reseller or IBM.

An IBM part or feature installed during the initial installation of an IBM machine is subject to the full warranty period specified by IBM. An IBM part or feature that replaces a previously installed part or feature assumes the remainder of the warranty period for the replaced part or feature. An IBM part or feature added to a machine without replacing a previously installed part or feature is subject to a full warranty. Unless specified otherwise, the warranty period, type of warranty service, and service level of a part or feature are the same as those for the machine in which it is installed.

**Customer setup**

Yes

**Machine code**

Same license terms and conditions as base machine

**Optional features warranty period**

- Optional features

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**Prices**

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<table>
<thead>
<tr>
<th>Feature number</th>
<th>Install type*</th>
<th>MES removal</th>
<th>Cables required</th>
<th>CSU</th>
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</thead>
<tbody>
<tr>
<td>8541</td>
<td>Both</td>
<td>N</td>
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<td>Y</td>
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<tr>
<td>8546</td>
<td>Both</td>
<td>N</td>
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<td>8706</td>
<td>Both</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
</tr>
</tbody>
</table>

*Install type:

- "Plant" denotes plant installation only
- "Field" denotes field installation only
- "Both" denotes both plant and field installation

CSU = Customer setup

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