



IBM TS1140 and TS1150 Tape Drive rack mount kit features support RoHS compliance in a 3U form factor for space efficiency

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At a glance

New features provide a rack mount kit to accept two TS1140 (3592-EH7), two TS1150 (3592-EH8) tape drives, or a combination, with the following enhancements:

- High density ready
- Space-saving drive density per footprint
- RoHS 3 compliant

Overview

The rack mount kit has a new design that enables newer generations of enterprise tape drives to be installed on most 19-inch racks for better space utilization. The kit is compatible with TS4500 drives with RoHS 3 compliance. It is available in a 3U form factor and encloses up to two TS1140 (3592-EH7) or TS1150 (3592-EH8) tape drives (2U height), including adjustable depth shelves for rack adaptability. It is equipped with two redundant, hot-swappable power supplies, two C13-C14 power cords for both tape drives, and a logic card for management of power.

With the common canister design, the high-density enterprise tape drives from TS4500 can be integrated seamlessly with the rack mount kit, enabling installation and removal from either the front or the back without any tooling.

A drive filler panel (feature number 4806) can be also be used when only one tape drive resides on a rack mount kit.

Key prerequisites

TS1140 and TS1150 are supported in a wide range of environments, including select IBM[®] Power Systems[™] and other servers running AIX[®], Linux[™], Oracle Solaris, and Microsoft[™] Windows[™] operating system environments. Refer to the [Software requirements](#) section for details.

Planned availability date

- June 3, 2016: All features except in the countries listed below

- July 15, 2016: All features in Mexico, Taiwan, Russia, Belarus, Armenia, Kazakhstan, and Kyrgyzstan

Description

The rack mount kit has a new design that enables newer generations of enterprise tape drives to be installed on most 19-inch racks for better space utilization and RoHS 3 compliance.

Rack optimization

As space becomes an increasingly critical issue in corporate IT environments, the demand for rack-mounted servers continues to grow. Available in a 3U form factor, the rack mount kit encloses up to two TS1140 (3592-EH7) or TS1150 (3592-EH8) tape drives (2U height), or a combination of both, and includes adjustable depth shelves for rack adaptability.

Ease of use

The rack mount kit can be installed quickly and easily. With a common canister design, the TS4500 high-density enterprise tape libraries can be seamlessly integrated with the rack mount kit, enabling installation and removal from either the front or the back without any tooling.

The CE panel has been eliminated and replaced by a removable bezel to facilitate CE access, gathering logs, and loading code to the drives through Ethernet ports.

The canister card reuses the design circuitry from TS4500 for commonality.

Reliability

The rack mount kit is equipped with two redundant, hot-swappable power supplies, two C13-C14 power cords for both tape drives, and a logic card for management of power.

Scalability

With data continuing to grow at 40 to 60% a year, IT managers are under constant pressure to scale their backup solutions to keep pace with growing storage needs. The rack mount kit offers a choice of enterprise drive technologies to meet these needs:

- Two TS1140 (3592-EH7) or TS1150 (3592-EH8) drives, or a combination of both, per mount kit
- Fourteen rack mount kits per 42U rack for a total of 28 drives per rack

Each rack mount kit can be populated with either one or two drives, enabling flexibility to scale your rack-mounted backup solutions. You can start with just one rack-mounted tape drive and then add a second drive when needed.

All rack mount solutions can be ordered with one JC data cartridge, one cleaning and one CE Diagnostic cartridge, a Ethernet cable for service, and the drive maintenance manuals.

Performance

By enabling installation of two tape drives, the rack mount kit enables them to run in parallel, reducing the backup time for multiple server environments. The two drives can also be attached to a single server for increased backup performance.

Rack mount kit features are required for installing a TS1140 or TS1150. Feature numbers 9806 or 9807 can be installed on any standard 19-inch rack with 3U of empty space. It can hold up to two TS1140 or two TS1150 tape drives, or a

combination of both can be installed in the rack mount kit (feature number 4804), which is 3U high of rack space and holds up to two tape drives that are 2U high.

Each TS1140 or TS1150 tape drive must be ordered separately, and is installed in a rack mount kit with one of the following feature numbers:

- 9806 - Install first drive in a rack mount kit
- 9807 - Install second drive in a rack mount kit

A drive filler panel, feature number 4806, can be also be used when only one tape drive resides on a rack mount kit.

Appropriate Fibre Channel cables should be ordered for each tape drive. Refer to the [Cable orders](#) section for a list of available cables. Also, refer to the **Fibre Channel Cables** section of the **Special Feature Codes** in the TS1140 or TS1150 Sales Manuals for Fibre Channel cable information.

For the latest details on specific hardware, software, and Fibre Channel support for the TS1140 and TS1150, go to the [IBM System Storage[®] Interoperation Center \(SSIC\)](#).

Labeled or initialized cartridges for TS1140 (3592-EH7) or TS1150 (3592-EH8) tape drives can be ordered using machine type 3599.

Accessibility by people with disabilities

A US Section 508 Voluntary Product Accessibility Template (VPAT) containing details on accessibility compliance can be found on the [IBM Accessibility](#) website.

Reference information

For more information, refer to the following announcements:

- IBM TS1140 Tape Drive Model EH7, Hardware Announcement [ZG14-0127](#), dated May 19, 2014.
- IBM TS1150 Tape Drive models EH8 and E08, Hardware Announcement [ZG14-0272](#), dated October 6, 2014.

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Product number

Description	Machine type	Model	Feature number
Rack Mount Kit	3592	EH7, EH8	4804
Rack Drive Accessories	3592	EH7, EH8	4805
Drive Filler Panel	3592	EH7, EH8	4806
Install 1st Drive in a Rack Mnt Kit	3592	EH7, EH8	9806
Install 2nd Drive in a Rack Mnt Kit	3592	EH7, EH8	9807
10 meter OM3 fiber Cable (LC)	3592	EH7, EH8	AGK1*
25 meter OM3 fiber Cable (LC)	3592	EH7, EH8	AGK2*
80 meter OM3 fiber Cable (LC)	3592	EH7, EH8	AGK3*

Description	Machine type	Model	Feature number
Attached to System Z	3592	EH7, EH8	9000*
Attached to HP-UX System	3592	EH7, EH8	9210*
Attached to Solaris System	3592	EH7, EH8	9211*
Attached to Windows System	3592	EH7, EH8	9212*
Attached to Other Non-IBM	3592	EH7, EH8	9213*
Attached to Linux System	3592	EH7, EH8	9215*
Attached to i5/OS™ or OS/400 ^(R) System	3592	EH7, EH8	9400*
Attached to AIX System	3592	EH7, EH8	9600*

* This feature was previously announced on other model

Education support

Contact your IBM representative for course information.

Publications

The following publications are shipped with the products:

Title
README - One-page pointer to the Customer Information Center Installation Instructions converting an E08 to an EH8 TS11x0 Product Information CD
README - One-page pointer to the Customer Information Center Installation Instructions converting an E07 to an EH7 TS11x0 Product Information CD
<i>Installation Instructions for Feature Codes 4804/4805/4806/9806/9807 on a 3592 EH7 or EH8 Tape Drive, P/N 2726281</i>
<i>3592 Rack Mount EH7/EH8 Maintenance Information, P/N 2726279</i>

The following publications are available softcopy:

Title
<i>IBM 3592 Tape Drives and TS1120 Controller Introduction and Planning Guide, GA32-0555-08</i>
<i>IBM 3592 Tape Drives and TS1120 Controller Operator Guide, GA32-0556-07</i>

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The 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.

Product publications will be available in English language on the day of announcement. Key product publications will be submitted to National Language Support for translation. When completed, translations will be available through

country ordering systems and the Publications Center Portal. They will also be available from the [TS1140](#) and [TS1150](#) websites.

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 go to the [IBM Global Technology Services^{\(R\)}](#) 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

Hardware requirements

These feature codes will not be announced in Argentina and India

Software requirements

For a current list of host operating system versions and release levels that support TS1140 and TS1150, go to the [IBM System Storage^{\(R\)} Interoperation Center \(SSIC\)](#).

IBM Tivoli^(R) Storage Manager and other compatible software offerings can provide storage and tape management software for the TS1150. Supporting software and applications must be obtained separately from IBM, IBM Business Partners, or Independent Software Vendors (ISVs). A list of compatible software is available from your IBM representative or at the [Tape storage](#) 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 System Storage tape drive and library device drivers and documentation on the Internet. Utilize the Fix Central download portal by accessing the [Fix Central](#) website.

There are several menus to navigate to the correct download as follows:

1. On the first menu item Click **Select Product > Product Group > System Storage**
2. Expand **Select from System Storage > Tape Systems**
3. Expand **Select from Tape systems > Tape drivers and software**
4. Expand **Select from Tape drivers and software > User product**
5. Expand **Platform > User operating system**
6. Click **Continue** to view what drivers are available

You can also download the [IBM Tape Device Drivers Installation and User's Guide](#).

Limitations

- Although multiple systems may be attached to a TS1140 or TS1150 tape drive, the systems cannot use the drive simultaneously. The TS1150 or TS1140 can only be varied online to one system at a time.
- TS1150 E08/EH8 and TS1140 EH7 tape drives are not supported for attachment to a 3590 Controller Models A60, A50, A00, or 3592 Model J70, C06, or C07 Controller.

Planning information

Customer responsibilities

Physical planning is a customer responsibility. Current levels of the open systems device drivers should be obtained to ensure the TS1140 and TS1150 are supported. For information on these requirements, refer to *IBM System Storage 3592 Tape Drive and Controller Introduction and Planning Guide 3592 Models E06, EU6, E07/EH7, E08/EH8* (GA32-0555).

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 website 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

Appropriate Fibre Channel cables should be ordered for each tape drive. Refer to the [Product number](#) section for a list of available cables. Also refer to the **Fibre Channel Cables** section of the **Special Feature Codes** in the 3592 Sales Manuals for Fibre Channel cable information.

Packaging

Product	Shipment group	Number of boxes
TS1140 EH7	TS1140 Tape Drive Model EH7 Device Driver README sheet	1
TS1150 EH8	TS1150 Tape Drive Model EH8 Device Driver README sheet	1

Security, auditability, and control

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

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

Global Technology Services

Contact your IBM representative for the list of selected services available in your country, either as standard or customized offerings, for the efficient installation, implementation, and/or integration of this product.

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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

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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.

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To learn how Electronic Services can work for you, go to the [IBM Electronic Support](#) website.

Terms and conditions

Field installable feature

Yes

Warranty period

One year

An IBM part or feature installed during the initial installation of an IBM machine is subject to a full warranty effective on the date of installation of the machine. 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 effective on its date of installation. 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

No

Machine code

Same license terms and conditions as base machine

Prices

For all local charges, contact your IBM representative.

Announcement countries

All European, Middle Eastern, and African countries except Islamic Republic of Iran, Sudan, and Syrian Arab Republic.

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