

# Ibm Tape Library

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ultrium 9 tape drive ibm diamondback tape library ibm ts4500 tape library ibm  
ts4300 tape library ts2900 tape autoloader along with technical information about  
each ibm tape product for open systems it also includes generalized sections about  
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architecture configurations this book also covers tools and techniques for library  
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channel connections and multipath architecture configurations this book also covers

tools and techniques for library management it is intended for anyone who wants to understand more about ibm tape products and their implementation it is suitable for ibm clients ibm business partners ibm specialist sales representatives and technical specialists if you do not have a background in computer tape storage products you might need to read other sources of information in the interest of being concise topics that are generally understood are not covered in detail

abstract this ibm redbooks publication presents a general introduction to the latest ibm tape and tape library technologies featured tape technologies include the ibm lto ultrium and enterprise 3592 tape drives and their implementation in ibm tape libraries this 16th edition introduces the new ts1160 tape drive with up to 20 tb capacity on je media and the latest updates to the ibm ts4500 and ts4300 tape libraries it includes generalized sections about small computer system interface scsi and fibre channel connections and multipath architecture configurations this book also covers tools and techniques for library management it is intended for anyone who wants to understand more about ibm tape products and their implementation it is suitable for ibm clients ibm business partners ibm specialist sales representatives and technical specialists if you do not have a background in computer tape storage products you might need to read other sources of information in the interest of being concise topics that are generally understood are not covered in detail

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this ibm redbooks publication presents a general introduction to linear tape open lto technology and the implementation of corresponding ibm products the ibm enterprise 3592 tape drive also is described this tenth edition includes information about the latest enhancements to the ibm ultrium family of tape drives and tape libraries in particular it includes details of the latest ibm lto ultrium 6 tape drive technology and its implementation in ibm tape libraries information is included about the recently released enhanced higher performance protectier servers and the features of the new version 3.2 server software the new software also enables a new feature the file system interface fsi it also contains technical information about each ibm tape product for open systems it includes generalized sections about small

computer system interface scsi and fibre channel connections and multipath architecture configurations this book also includes information about tools and techniques for library management this edition includes details about tape system library manager tslm tslm provides consolidation and simplification in large ts3500 tape library environments including the ibm shuttle complex this publication is intended for anyone who wants to understand more about ibm tape products and their implementation this book is suitable for ibm clients ibm business partners ibm specialist sales representatives and technical specialists if you do not have a background in computer tape storage products you might need to reference other sources of information in the interest of being concise topics that are generally understood are not covered in detail

the ibm diamondback tape library is the next generation ultra high density tape storage solution available from ibm the diamondback is designed to easily scale out and fit into any data center or server room with each frame having only the footprint of a standard server rack designed with a focus on simplicity and density the library can be deployed quickly and easily managed using either rest api or its own browser based gui maintenance and support are also simplified via the use of customer replaceable units crus and built in call home which greatly lowers the number of parts to be kept on hand and reduces downtime in the event of a failure this next generation tape library is designed to help midsize and large enterprises meet modern cloud storage challenges including increasing data volumes rising storage footprint costs and reducing the complexity of it training and system management by simplifying data migration and administration this ibm redbooks publication provides a detailed overview of the new diamondback library and its features highlights of these features include standard server rack dimensions based on open compute project racks installs into data centers and is serviced like a server rack store up to 27 pb capacity with lto 9 cartridges up to 69 pb with 2:5:1 compression a 2.7x improvement over lto with ts4500 single frame media optimization for the lto9 tape drive with l9 lz media reduce installation time with the ability to ship fully loaded with

tape cartridges optimize storage with ultra high density uhd storage slots automate management through a rest api simplified service using crus reduces down time and number of parts to keep on hand automatic control path and data path fail over tape drive encryption worm media support persistent worldwide name multipath architecture drive media exception reporting remote drive media management advanced library management system alms additionally this book describes detailed information about the ibm diamondback components feature codes specifications supported tape drives encryption system management security features and rest features this publication is for anyone who wants to understand more about the ibm diamondback tape library it is particularly suitable for ibm clients ibm business partners ibm specialist sales representatives and technical specialists

the ibm linear tape file system™ ltfS is the first file system that works along with linear tape open lto tape technology to set a new standard for ease of use and portability for open systems tape storage in 2011 ltfS won an engineering emmy award for innovation from the academy of television arts sciences this ibm redbooks publication helps you install tailor and configure the ibm spectrum™ archive single drive edition sde and the ibm spectrum archivem™ library edition le products ltfS is a file system that was originally implemented on dual partition linear tape ibm lto ultrium 5 tape drives lto 5 and ibm ts1140 tape drives now ibm spectrum archive sde and le support ibm lto ultrium 8 7 6 or 5 tape drives and ibm ts1155 ibm ts1150 and ibm ts1140 tape drives ibm spectrum archive le supports the ibm ts4500 tape library ibm ts3500 tape library ibm ts3310 tape library ibm ts3200 tape library express ibm ts3100 tape library express and ibm ts2900 tape autoloader express ibm spectrum archive makes tape look and work like any removable media such as a usb drive files and directories appear on the desktop as a directory listing it is now simple to drag files to and from tape any application that is written to use disk files works with the same files on tape ibm spectrum archive sde supports stand alone drives only ibm spectrum archive le supports tape libraries ibm spectrum archive le presents each cartridge in the library as a subdirectory in the ltfS file system with ibm spectrum archive le you

can list the contents and search all of the volumes in the library without mounting the volumes by using an in memory index this publication is intended for anyone who wants to understand more about ibm linear tape system products and their implementation this book is suitable for ibm clients ibm business partners ibm specialist sales representatives and technical specialists

this ibm redbooks publication follows the ibm system storage tape libraries guide for open systems sg24 5946 and can help you plan install and configure ibm ultrium lto tape drives as well as the ts1120 tape drive and libraries in i5 os environments the book focuses on the setup and customization of these drives and libraries the first part of the book gives an overview of the system i family of servers and describes how to attach and configure the drives and libraries it also covers basic installation and administration we describe the sharing and partitioning of libraries and explain the concept and usage of the advanced library management system alms in the second part of the book we document how to use these products with backup recovery and media services brms how to implement tape encryption and how to use the ibm ts7520 virtualization engine with i5 os this book can help ibm personnel business partners and customers to better understand and implement the ibm ultrium lto product line and also the ts1120 tape drive attached to system i servers we assume that the reader is familiar with tape drives and libraries and has a basic understanding of system i servers and i5 os

the ibm ts4500 tape library is a next generation tape solution that offers higher storage density and better integrated management than previous solutions this ibm redbooks publication gives you a close up view of the new ibm ts4500 tape library in the ts4500 ibm delivers the density that today s and tomorrow s data growth requires it has the cost effectiveness and the manageability to grow with business data needs while you preserve investments in ibm tape library products this book describes the ts4500 components feature codes specifications supported tape drives encryption new integrated management console imc command line interface cli and rest over

scsi ros to obtain status information about library components this publication is for anyone who wants to understand more about the ibm ts4500 tape library it is particularly suitable for ibm clients ibm business partners ibm specialist sales representatives and technical specialists

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compatibility with existing automation the ts1160 tape drive model 60e delivers a dual 10 gb or 25 gb ethernet host attachment interface that is optimized for cloud based and hyperscale environments the ts1160 tape drive model 60f delivers a native data rate of 400 mbps the same load ready locate speeds and access times as the ts1155 and includes dual po

abstract the ibm ts4500 ts4500 tape library is a next generation tape solution that offers higher storage density and integrated management than previous solutions this ibm redbooks publication gives you a close up view of the new ibm ts4500 tape library in the ts4500 ibm delivers the density that today s and tomorrow s data growth requires it has the cost effectiveness and the manageability to grow with business data needs while you preserve existing investments in ibm tape library products now you can achieve both a low cost per terabyte tb and a high tb density per square foot because the ts4500 can store up to 11 petabytes pb of uncompressed data in a single frame library or scale up to 2 pb per square foot to over 350 pb the ts4500 offers the following benefits high availability dual active accessors with integrated service bays reduce inactive service space by 40 the elastic capacity option can be used to completely eliminate inactive service space flexibility to grow the ts4500 library can grow from the right side and the left side of the first l frame because models can be placed in any active position increased capacity the ts4500 can grow from a single l frame up to another 17 expansion frames with a capacity of over 23 000 cartridges high density hd generation 1 frames from the ts3500 library can be redeployed in a ts4500 capacity on demand cod cod is supported through entry level intermediate and base capacity configurations advanced library management system alms alms supports dynamic storage management which enables users to create and change logical libraries and configure any drive for any logical library support for ibm ts1160 while also supporting ts1155 ts1150 and ts1140 tape drive the ts1160 gives organizations an easy way to deliver fast access to data improve security and provide long term retention all at a lower cost than disk solutions the ts1160 offers high performance flexible data storage with support for data encryption also this enhanced fifth

generation drive can help protect investments in tape automation by offering compatibility with existing automation the new ts1160 tape drive model 60e delivers a dual 10 gb or 25 gb ethernet host attachment interface that is optimized for cloud based and hyperscale environments the ts1160 tape drive model 60f delivers a native data rate of 400 mbps the same load ready locate speeds and access times as the ts1155 and inc

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