



IBM Tape Cartridge 3599 models deliver enhanced capacity enterprise tape drives

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At a glance

IBM® 3599 Tape Media provides the ability to order IBM 3592 Advanced Data, 3592 Advanced WORM, and 3592 Advanced Economy Tape Cartridge models with the following features:

- Rewritable standard data cartridges of 10 TB native physical capacity
- Write-once, read-many (WORM) cartridges of 10 TB native physical capacity
- Rewritable economy data cartridges of 2 TB native physical capacity
- Labeled cartridges with the ability to specify a color-coded, volume serial number
- Labeled and initialized cartridges with the ability to specify a color-coded, volume serial number to save time and labor when adding cartridges to library inventory

Overview

Nine new models of IBM 3599 Tape Media deliver the option to order data cartridges for IBM TS1150 tape drive (machine type 3592, Model E08). The following 3599 models are available:

- **IBM 3592 Advanced Data cartridge - Type D:** Models 425, 525, and 625 provide up to 10 TB read/write native physical capacity of storage
- **IBM 3592 Advanced Economy cartridge - Type L:** Models 435, 535, and 635 provide up to 2 TB rewritable native physical capacity of storage
- **IBM 3592 Advanced WORM cartridge - Type Z:** Models 445, 545, and 645 provide WORM storage on a 10 TB or higher capacity cartridge

These tape media models have cartridge memory in each data cartridge designed to help enhance functionality and reliability of the media. This advanced, higher capacity tape cartridge media is supported when TS1150 Model E08 is integrated or used in the IBM TS3500 tape library, or when TS1150 HD2-compatible Model EH8 is integrated or used in the IBM TS4500 tape library (machine type 3584) and standalone rack environments. The latest versions of TS1150 drive microcode and library or subsystem firmware may be required to support the higher capacity IBM 3592 Advanced Data cartridges.

The higher capacity tape cartridges are designed for applications such as archiving and data retention, including those applications requiring security or an audit trail. These cartridges work with the IBM TS1150 to help prevent the unauthorized access, alteration, or deletion of user data, and are supported by the encryption capability in the TS1150 Model E08 and EH8 tape drives and its associated IBM Security Key License Manager component.

As with previous models, these models deliver flexibility in the specification and ordering of pre-labeled and initialized data cartridges.

Key prerequisites

These products are only for use with IBM TS1150 tape drive Model E08 or HD2-compatible Model EH8. The latest versions of the TS1150 drive microcode and library or subsystem firmware may be required to support IBM 3592 Advanced Tape Cartridge media.

Planned availability date

October 24, 2014

Availability of programs with an encryption algorithm in France is subject to French government approval.

Description

IBM 3599 Tape Media enables customers to order pre-labeled, pre-labeled and initialized, or bulk-packaged tape data cartridges. These cartridges can be used with IBM TS1150 tape drive Model E08 or HD2-compatible Model EH8.

Note: The Advanced Data (Type D) cartridges, Advanced Economy (Type L) cartridges, and Advanced WORM (Type Z) cartridges are not supported on legacy J1A, E05, E06, and E07 drives.

The new 3599 models include:

- Model 425 - IBM Tape Cartridges 3592, Advanced Data - Type D, 10 TB, in a 20-pack, initialized and pre-labeled with starting volume serial information
- Model 525 - IBM Tape Cartridges 3592, Advanced Data - Type D, 10 TB, in a 20-pack, pre-labeled with starting volume serial information
- Model 625 - IBM Tape Cartridges 3592, Advanced Data - Type D, 10 TB, in a 20-pack
- Model 435 - IBM Tape Cartridges 3592, Advanced Economy - Type L, 2 TB, in a 20-pack, initialized and pre-labeled with starting volume serial information
- Model 535 - IBM Tape Cartridges 3592, Advanced Economy - Type L, 2 TB, in a 20-pack, pre-labeled with starting volume serial information
- Model 635 - IBM Tape Cartridges 3592, Advanced Economy - Type L, 2 TB, in a 20-pack
- Model 445 - IBM Tape Cartridges 3592, Advanced WORM - Type Z, 10 TB, in a 20-pack, initialized and pre-labeled with starting volume serial information
- Model 545 - IBM Tape Cartridges 3592, Advanced WORM - Type Z, 10 TB, in a 20-pack, pre-labeled with starting volume serial information
- Model 645 - IBM Tape Cartridges 3592, Advanced WORM - Type Z, 10 TB, in a 20-pack

Features of IBM 3592 tape cartridges include:

- Cartridge memory built into every data cartridge to help enhance functionality and media reliability by storing access history and media performance information for use by the tape drive every time the cartridge is accessed
- Initialization and pre-labeling, with the ability to specify a starting volume serial and color-coding to help save time and labor when adding new cartridges into the existing inventory

Note: To help promote reliability, use IBM tape cartridges and tape cleaning cartridges which conform to IBM specifications. Additional product information and deliverables can be found on the IBM Media website at

<http://www.storage.ibm.com/media>

Product positioning

IBM offers a wide range of storage media products to support storage applications ranging from PC products to enterprise-wide mainframe libraries. IBM TS1150 tape drives are designed to provide high capacity, performance, and reliability across a broad range of computing environments.

The TS1140 Models E08 and EH8 are the next generation of the highly successful 3592 enterprise tape drive. TS1150 is supported in a wide range of environments, including IBM Power Systems™, IBM System i®, IBM System p®, IBM System x®, and other servers running AIX®, Linux™, Oracle Solaris, and Microsoft™ Windows™ operating system environments. The TS1150 has significant performance and capacity benefits over the IBM TS1140 and other half-inch tape drives.

TS1150 is designed for high-performance computing environments where high reliability, capacity, and performance are mandated. The following environments can benefit from the TS1150.

- Current enterprise tape drive applications in TS4500 environments where the following requirements need to be met:
 - Space allocated to tape cartridges needs to be reduced within automation solutions or offline storage.
 - Backup windows are growing and there is a need for higher performance tape drives to back up larger amounts of data in less time.
 - A Fibre Channel-attached drive where native switched fabric capability is required.
- Other large-scale tape environments, such as:
 - High-speed data-save operations where backup windows are critical and large amounts of data are archived to tape.
 - Large-scale automated tape installations where performance, capacity, and reliability are requirements.
 - Large-scale mass data archive applications where massive amounts of data need to be quickly saved to tape for storage and later recalled, such as the seismic industry, data warehousing, and record management applications.
 - Environments where both streaming and start/stop (access), and large and small file workloads are required.

Other target customers for the TS1150 are encryption opportunities in medium to large enterprises in the financial sector, government and public sector, and other industries that must protect their customer tape data from loss or theft.

IBM Tape Cartridge 3592 media provides rewritable data, WORM, and cleaning cartridges for use in the TS1150 tape drives that can be purchased from IBM using feature numbers with the initial order of the machine. IBM 3599 provides a way to order these with a variety of customer-specified options in packaging and labeling. With these options, customers can:

- Save time and labor by prelabeling cartridges when adding new cartridges into an existing inventory system
- Order in bulk to help save procurement time and expense

If self-labeling is preferred, Models 625, 635, and 645 provide a way to order bulk cartridges. To save time and labor in labeling cartridges, Models 425, 435, and 445 (labeling and initialization) and 525, 535, and 545 (labeling only) are available to address all aspects of the requirements for data cartridge labeling specifications.

Additional product information and deliverables can be found at

<http://www.storage.ibm.com/media>

Reference information

For more information on the following products, refer to:

- [ZG14-0272](#), dated October 06, 2014, for IBM TS1150 Tape Drives Models
- [ZG14-0114](#), dated May 19, 2014, for IBM TS4500 Tape Library New HD Models
- [ZG11-0139](#), dated May 09, 2011, for IBM TS1140 Tape Drive Model E07
- [ZG11-0152](#), dated May 09, 2011, for IBM 3599 Tape Media New Models

Product number

Description	Machine type	Model	Feature
Tape Cart 3592 Labeled and Initialized Data Cartridges - Type D	3599	425	
Tape Cart 3592 Labeled and Initialized Economy Data - Type L	3599	435	
Tape Cart 3592 Labeled and Initialized WORM Cartridges - Type Z	3599	445	
Tape Cart 3592 Labeled Data Cartridges - Type D	3599	525	
Tape Cart 3592 Labeled Economy Data - Type L	3599	535	
Tape Cart 3592 Labeled WORM Cartridges - Type Z	3599	545	
Tape Cart 3592 Data Cartridges - Type D	3599	625	
Tape Cart 3592 Economy Data - Type L	3599	635	
Tape Cart 3592 WORM Cartridges - Type Z	3599	645	
20-Pack 3592 Data Cartridges - Type D with Labeling and Initialization	3599	425	4251
20-Pack 3592 Data Cartridges - Type D with RFID Labeling and Initialization	3599	425	4261
20-Pack 3592 Economy Data Cartridges - Type L with Labeling and Initialization	3599	435	4351
20-Pack 3592 Economy Data Cartridges - Type L with RFID Labeling and Initialization	3599	435	4361
20-Pack 3592 WORM Data Cartridges - Type Z with Labeling and Initialization	3599	445	4455
20-Pack 3592 WORM Data Cartridges - Type Z with RFID Labeling and Initialization	3599	445	4465
20-Pack 3592 Data Cartridges - Type D with Labeling Services	3599	525	5251
20-Pack 3592 Data Cartridges - Type D with RFID Labeling Services	3599	525	5261
20-Pack 3592 Economy Data Cartridges - Type L with Labeling Services	3599	535	5351
20-Pack 3592 Economy Data Cartridges - Type L with RFID Labeling Services	3599	535	5361

20-Pack 3592 WORM Data Cartridges - Type Z with Labeling Services	3599	545	5451
20-Pack 3592 WORM Data Cartridges - Type Z with RFID Labeling Services	3599	545	5461
20-Pack 3592 Data Cartridges - Type D without Labeling and Initialization	3599	625	6250
20-Pack 3592 Economy Data Cartridges - Type L without Labeling and Initialization	3599	635	6350
20-Pack 3592 WORM Data Cartridges - Type Z without Labeling and Initialization	3599	645	6450
Alpha prefix background - red	3599	425, 435, 445, 525, 535, 545	9003
Alpha prefix background - yellow	3599	425, 435, 445, 525, 535, 545	9004
Alpha prefix background - light green	3599	425, 435, 445, 525, 535, 545	9005
Alpha prefix background - light blue	3599	425, 435, 445, 525, 535, 545	9006
Alpha prefix background - gray	3599	425, 435, 445, 525, 535, 545	9007
Alpha prefix background - orange	3599	425, 435, 445, 525, 535, 545	9008
Alpha prefix background - pink	3599	425, 435, 445, 525, 535, 545	9009
Alpha prefix background - dark green	3599	425, 435, 445, 525, 535, 545	9010
Alpha prefix background - light orange	3599	425, 435, 445, 525, 535, 545	9011
Alpha prefix background - purple	3599	425, 435, 445, 525,	9012

		535, 545	
Label background: Color/Vibrant	3599	425, 435, 445, 525, 535, 545	9022
Media identifier letters JD or Type D	3599	425, 525	9036
Media identifier letters JZ or Type Z	3599	445, 545	9049
Media identifier letters JL or Type L	3599	435, 535	9054
Label background: White (no color)	3599	425, 435, 445, 525, 535, 545	9077
E5 Format	3599	425, 435, 445, 420	9085
First character of VOLSER =0	3599	425, 435, 445, 525, 535, 545	9100
First character of VOLSER =1	3599	425, 435, 445, 525, 535, 545	9101
First character of VOLSER =2	3599	425, 435, 445, 525, 535, 545	9102
First character of VOLSER =3	3599	425, 435, 445, 525, 535, 545	9103
First character of VOLSER =4	3599	425, 435, 445, 525, 535, 545	9104
First character of VOLSER =5	3599	425, 435, 445, 525, 535, 545	9105
First character of VOLSER =6	3599	425, 435, 445, 525, 535, 545	9106
First character of VOLSER =7	3599	425, 435, 445,	9107

First character of VOLSER =8	3599	525, 535, 545, 425, 435, 445, 525, 535, 545	9108
First character of VOLSER =9	3599	425, 435, 445, 525, 535, 545	9109
First character of VOLSER =A	3599	425, 435, 445, 525, 535, 545	9110
First character of VOLSER =B	3599	425, 435, 445, 525, 535, 545	9111
First character of VOLSER =C	3599	425, 435, 445, 525, 535, 545	9112
First character of VOLSER =D	3599	425, 435, 445, 525, 535, 545	9113
First character of VOLSER =E	3599	425, 435, 445, 525, 535, 545	9114
First character of VOLSER =F	3599	425, 435, 445, 525, 535, 545	9115
First character of VOLSER =G	3599	425, 435, 445, 525, 535, 545	9116
First character of VOLSER =H	3599	425, 435, 445, 525, 535, 545	9117
First character of VOLSER =I	3599	425, 435, 445, 525, 535, 545	9118
First character of VOLSER =J	3599	425, 435, 445, 525, 535,	9119

First character of VOLSER =K	3599	545, 425, 435, 445, 525, 535, 545	9120
First character of VOLSER =L	3599	425, 435, 445, 525, 535, 545	9121
First character of VOLSER =M	3599	425, 435, 445, 525, 535, 545	9122
First character of VOLSER =N	3599	425, 435, 445, 525, 535, 545	9123
First character of VOLSER =O	3599	425, 435, 445, 525, 535, 545	9124
First character of VOLSER =P	3599	425, 435, 445, 525, 535, 545	9125
First character of VOLSER =Q	3599	425, 435, 445, 525, 535, 545	9126
First character of VOLSER =R	3599	425, 435, 445, 525, 535, 545	9127
First character of VOLSER =S	3599	425, 435, 445, 525, 535, 545	9128
First character of VOLSER =T	3599	425, 435, 445, 525, 535, 545	9129
First character of VOLSER =U	3599	425, 435, 445, 525, 535, 545	9130
First character of VOLSER =V	3599	425, 435, 445, 525, 535, 545	9131
First character of VOLSER =W	3599	425, 435, 445, 525, 535, 545	9132

		435, 445, 525, 535, 545	
First character of VOLSER =X	3599	425, 435, 445, 525, 535, 545	9133
First character of VOLSER =Y	3599	425, 435, 445, 525, 535, 545	9134
First character of VOLSER =Z	3599	425, 435, 445, 525, 535, 545	9135
Second character of VOLSER =0	3599	425, 435, 445, 525, 535, 545	9200
Second character of VOLSER =1	3599	425, 435, 445, 525, 535, 545	9201
Second character of VOLSER =2	3599	425, 435, 445, 525, 535, 545	9202
Second character of VOLSER =3	3599	425, 435, 445, 525, 535, 545	9203
Second character of VOLSER =4	3599	425, 435, 445, 525, 535, 545	9204
Second character of VOLSER =5	3599	425, 435, 445, 525, 535, 545	9205
Second character of VOLSER =6	3599	425, 435, 445, 525, 535, 545	9206
Second character of VOLSER =7	3599	425, 435, 445, 525, 535, 545	9207
Second character of VOLSER =8	3599	425, 435,	9208

			445, 525, 535, 545	
Second character of VOLSER =9	3599		425, 435, 445, 525, 535, 545	9209
Second character of VOLSER =A	3599		425, 435, 445, 525, 535, 545	9210
Second character of VOLSER =B	3599		425, 435, 445, 525, 535, 545	9211
Second character of VOLSER =C	3599		425, 435, 445, 525, 535, 545	9212
Second character of VOLSER =D	3599		425, 435, 445, 525, 535, 545	9213
Second character of VOLSER =E	3599		425, 435, 445, 525, 535, 545	9214
Second character of VOLSER =F	3599		425, 435, 445, 525, 535, 545	9215
Second character of VOLSER =G	3599		425, 435, 445, 525, 535, 545	9216
Second character of VOLSER =H	3599		425, 435, 445, 525, 535, 545	9217
Second character of VOLSER =I	3599		425, 435, 445, 525, 535, 545	9218
Second character of VOLSER =J	3599		425, 435, 445, 525, 535, 545	9219
Second character of VOLSER =K	3599		425, 435, 445, 525,	9220

Second character of VOLSER =L	3599	535, 545, 425, 435, 445, 525, 535, 545	9221
Second character of VOLSER =M	3599	425, 435, 445, 525, 535, 545	9222
Second character of VOLSER =N	3599	425, 435, 445, 525, 535, 545	9223
Second character of VOLSER =O	3599	425, 435, 445, 525, 535, 545	9224
Second character of VOLSER =P	3599	425, 435, 445, 525, 535, 545	9225
Second character of VOLSER =Q	3599	425, 435, 445, 525, 535, 545	9226
Second character of VOLSER =R	3599	425, 435, 445, 525, 535, 545	9227
Second character of VOLSER =S	3599	425, 435, 445, 525, 535, 545	9228
Second character of VOLSER =T	3599	425, 435, 445, 525, 535, 545	9229
Second character of VOLSER =U	3599	425, 435, 445, 525, 535, 545	9230
Second character of VOLSER =V	3599	425, 435, 445, 525, 535, 545	9231
Second character of VOLSER =W	3599	425, 435, 445, 525, 535, 545	9232

Second character of VOLSER =X	3599	425, 435, 445, 525, 535, 545	9233
Second character of VOLSER =Y	3599	425, 435, 445, 525, 535, 545	9234
Second character of VOLSER =Z	3599	425, 435, 445, 525, 535, 545	9235
Third character of VOLSER =0	3599	425, 435, 445, 525, 535, 545	9300
Third character of VOLSER =1	3599	425, 435, 445, 525, 535, 545	9301
Third character of VOLSER =2	3599	425, 435, 445, 525, 535, 545	9302
Third character of VOLSER =3	3599	425, 435, 445, 525, 535, 545	9303
Third character of VOLSER =4	3599	425, 435, 445, 525, 535, 545	9304
Third character of VOLSER =5	3599	425, 435, 445, 525, 535, 545	9305
Third character of VOLSER =6	3599	425, 435, 445, 525, 535, 545	9306
Third character of VOLSER =7	3599	425, 435, 445, 525, 535, 545	9307
Third character of VOLSER =8	3599	425, 435, 445, 525, 535, 545	9308
Third character of VOLSER =9	3599	425, 435, 445, 525, 535, 545	9309

			435,	
			445,	
			525,	
			535,	
			545	
Third character of VOLSER =A	3599		425,	9310
			435,	
			445,	
			525,	
			535,	
			545	
Third character of VOLSER =B	3599		425,	9311
			435,	
			445,	
			525,	
			535,	
			545	
Third character of VOLSER =C	3599		425,	9312
			435,	
			445,	
			525,	
			535,	
			545	
Third character of VOLSER =D	3599		425,	9313
			435,	
			445,	
			525,	
			535,	
			545	
Third character of VOLSER =E	3599		425,	9314
			435,	
			445,	
			525,	
			535,	
			545	
Third character of VOLSER =F	3599		425,	9315
			435,	
			445,	
			525,	
			535,	
			545	
Third character of VOLSER =G	3599		425,	9316
			435,	
			445,	
			525,	
			535,	
			545	
Third character of VOLSER =H	3599		425,	9317
			435,	
			445,	
			525,	
			535,	
			545	
Third character of VOLSER =I	3599		425,	9318
			435,	
			445,	
			525,	
			535,	
			545	
Third character of VOLSER =J	3599		425,	9319
			435,	
			445,	
			525,	
			535,	
			545	
Third character of VOLSER =K	3599		425,	9320
			435,	
			445,	
			525,	
			535,	
			545	
Third character of VOLSER =L	3599		425,	9321
			435,	
			445,	

Third character of VOLSER =M	3599	525, 535, 545, 425, 435, 445, 525, 535, 545	9322
Third character of VOLSER =N	3599	425, 435, 445, 525, 535, 545	9323
Third character of VOLSER =O	3599	425, 435, 445, 525, 535, 545	9324
Third character of VOLSER =P	3599	425, 435, 445, 525, 535, 545	9325
Third character of VOLSER =Q	3599	425, 435, 445, 525, 535, 545	9326
Third character of VOLSER =R	3599	425, 435, 445, 525, 535, 545	9327
Third character of VOLSER =S	3599	425, 435, 445, 525, 535, 545	9328
Third character of VOLSER =T	3599	425, 435, 445, 525, 535, 545	9329
Third character of VOLSER =U	3599	425, 435, 445, 525, 535, 545	9330
Third character of VOLSER =V	3599	425, 435, 445, 525, 535, 545	9331
Third character of VOLSER =W	3599	425, 435, 445, 525, 535, 545	9332
Third character of VOLSER =X	3599	425, 435, 445, 525, 535,	9333

Third character of VOLSER =Y	3599	545, 425, 435, 445, 525, 535, 545	9334
Third character of VOLSER =Z	3599	425, 435, 445, 525, 535, 545	9335
Fourth character of VOLSER =0	3599	425, 435, 445, 525, 535, 545	9400
Fourth character of VOLSER =1	3599	425, 435, 445, 525, 535, 545	9401
Fourth character of VOLSER =2	3599	425, 435, 445, 525, 535, 545	9402
Fourth character of VOLSER =3	3599	425, 435, 445, 525, 535, 545	9403
Fourth character of VOLSER =4	3599	425, 435, 445, 525, 535, 545	9404
Fourth character of VOLSER =5	3599	425, 435, 445, 525, 535, 545	9405
Fourth character of VOLSER =6	3599	425, 435, 445, 525, 535, 545	9406
Fourth character of VOLSER =7	3599	425, 435, 445, 525, 535, 545	9407
Fourth character of VOLSER =8	3599	425, 435, 445, 525, 535, 545	9408
Fourth character of VOLSER =9	3599	425, 435, 445, 525, 535, 545	9409

Fifth character of VOLSER =0	3599	425, 435, 445, 525, 535, 545	9500
Fifth character of VOLSER =1	3599	425, 435, 445, 525, 535, 545	9501
Fifth character of VOLSER =2	3599	425, 435, 445, 525, 535, 545	9502
Fifth character of VOLSER =3	3599	425, 435, 445, 525, 535, 545	9503
Fifth character of VOLSER =4	3599	425, 435, 445, 525, 535, 545	9504
Fifth character of VOLSER =5	3599	425, 435, 445, 525, 535, 545	9505
Fifth character of VOLSER =6	3599	425, 435, 445, 525, 535, 545	9506
Fifth character of VOLSER =7	3599	425, 435, 445, 525, 535, 545	9507
Fifth character of VOLSER =8	3599	425, 435, 445, 525, 535, 545	9508
Fifth character of VOLSER =9	3599	425, 435, 445, 525, 535, 545	9509

Sixth character of VOLSER is set to "0"

Publications

No publications are shipped with the announced products.

IBM Knowledge Center provides you with a single information center where you can access product documentation for IBM systems hardware, operating systems,

and server software. Through a consistent framework, you can efficiently find information and personalize your access. IBM Knowledge Center is located at

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

IBM Publications Center Portal

<http://www.ibm.com/shop/publications/order>

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

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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/ites.wss/zz/en?pageType=tp_search_new

Technical information

Specified operating environment

Physical specifications

Tape Cartridges - media types JD, JZ

- Width: 109 mm (4.3 in)
- Depth: 125 mm (4.9 in)
- Height: 24.5 mm (0.97 in)
- Weight: 244 g (8.6 oz)

Tape Cartridges - media type JL

- Width: 109 mm (4.3 in)
- Depth: 125 mm (4.9 in)
- Height: 24.5 mm (0.97 in)
- Weight: 166 g (5.8 oz)

To assure installability and serviceability in non-IBM industry-standard racks, review the installation planning information for any product-specific installation requirements.

Operating environment

- Temperature: 16°C to 32°C
- Relative Humidity: 20 - 80%
- Wet Bulb: 26°C max.

Hardware requirements

The 3599 Tape Media offers data cartridges fully configured to help address requirements for data cartridge labeling and initialization needs. For the Tape Cartridge 3592 Data, 10 TB a 20-pack of data cartridges with one of the three data cartridge labeled and initialized options can be selected:

- Labeled and initialized data cartridges (Model 425)
- Labeled only data cartridges (Model 525)
- Standard data cartridges without labeling or initialization (Model 625)

For the IBM TS1150 tape drive Model E08 and HD2-compatible Model EH8 that are integrated or used in the IBM TS3500 or TS4500 tape library (machine type 3584) and stand-alone rack environments, the latest versions of TS1150 drive microcode and library or subsystem firmware may be required to support the higher capacity IBM Tape Cartridge 3592 media.

Order Model 525 for labeled 3592 Data Cartridges that are not initialized. A full selection of label colors and number sequence can be specified, and IBM will label all the data cartridges ordered according to the feature numbers selected. The following items can be specified:

Type: For Models 425 and 525 with cartridge media identifier letters (JD/9xxx)

Label background options: Both Color/Vibrant (9022) and White (9077) are available

VOLSER color choices: All ten background colors are available (#9003 to #9012)

Starting VOLSER sequence number: Select the starting sequence number with the following features:

- First alphanumeric digit (0 to 9 and A to Z): 9100 ('0') to 9135 ('Z')
- Second alphanumeric digit (0 to 9 and A to Z): 9200 ('0') to 9235 ('Z')
- Third alphanumeric digit (0 to 9 and A to Z): 9300 ('0') to 9335 ('Z')
- Fourth numeric digit (0 to 9): 9400 ('0') to 9409 ('9')
- Fifth numeric digit (0 to 9): 9500 ('0') to 9509 ('9')
- Sixth numeric digit is set to '0'

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 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

No cables required.

Security, auditability, and control

This product uses the security and auditability features of 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.

Terms and conditions

Volume Orders

Contact your IBM representative.

Products - terms and conditions

Warranty period

Limited lifetime warranty, free from manufacturing and materials defects for the lifetime of the product, typically ten years.

Warranty service

You can get assistance and arrange for a warranty product replacement with a phone call to one of the numbers listed under support at:

<http://www.storage.ibm.com/media>

There is no warranty service for this product.

There is no warranty service upgrade nor maintenance service for this product.

Usage plan machine

No

IBM hourly service rate classification

Not applicable.

Maintenance service offerings

There is no maintenance for this product.

General terms and conditions

Field-installable features

No

Model conversions

No

Machine installation

Customer setup. Customers are responsible for installation according to the instructions IBM provides with the machine.

Graduated program license charges apply

No

Licensed internal code and licensed machine code

This product does not contain Licensed Internal Code or Licensed Machine Code.

Prices

For all local charges, contact your IBM representative.

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