

3592 Enterprise Tape Cartridges

Enterprise-class data storage systems require the use of media that offers both high capacity and extremely high reliability. Featuring Fujifilm's proprietary NANOCUBIC technology, the 3592 Tape Cartridge Series offers up to 700 GB native capacity (2100 GB 3:1 data compressed) and a native transfer rate of 104 MB per second. The Fujifilm world-class magnetic coating technology powers expanded storage capacities, faster transfer rates, longer archival lifetimes and superior reliability.

3592 Data Cartridge Tape – Name	Media ID	Native Capacity: Drive Model 3592 J1A (E1 Format)	Native Capacity: Drive Model 3592 E05 (E2 Format)	Cartridge Shell Case Color	Label, Door & Write-Protect Switch Color
DATA	JA	300 GB	500 GB	BLACK	DARK BLUE
ECONOMY	JJ	60 GB	100 GB		LIGHT BLUE
DATA WORM	JW	300 GB	500 GB	PLATINUM (silvery gray)	DARK BLUE
ECONOMY WORM	JR	60 GB	100 GB		LIGHT BLUE
EXTENDED* DATA	JB*	Not Compatible	700 GB*	BLACK	GREEN
EXTENDED* WORM	JX*	Not Compatible	700 GB*	PLATINUM	
CLEANING	CLN + JA	----	----	BLACK	WHITE

Note: JA, JJ, JW, JR, JB and JX are Media Identifier, 7th and 8th characters following a six-character Volume ID for typical 3592 Bar Code Labels.

* IBM brand 3592 Extended Capacity Cartridges available January 2007 – Fujifilm brand is not currently available. Previously existing installed base of 3592 Model E05 Drives (also known as the Model TS1120) will require a firmware upgrade to use Extended Capacity Cartridges.

- ➔ **A momentous announcement in 2005 – The Fujifilm 3592 JA Data Cartridge now boasts a 500 GB native capacity (1.5 TB 3:1 compressed / 1 TB 2:1 compressed).**
- ➔ **The World's first Linear Tape Cartridge with a 500 GB native data capacity!**

The "300 GB" 3592 JA Data Cartridges, which have been available since September 2003, now have a data capacity of 500 GB (native) when used in IBM's 3592 Model E05 Tape Drive, which is also known as the System Storage Model TS1120.

The IBM 3592 Model E05 (TS1120) tape drive began shipping in **October 2005**. This tape drive uses the existing generation one media, same as used by the 3592 Model J1A drives. 3592-E05 (TS1120) drives store 500 GB at 104 MB/s (native) using the same 3592 JA cartridge as the 3592 J1A drive and 700 GB native capacity using the new Extended Capacity media. Latest IBM drive:

Description: TS1120 Tape Drive - Machine Type: 3592 - Model: E05

The TS1120 drive stores 500 GB at up to 104 MB/s (native) on the existing 3592 JA media, versus 300 GB at up to 40 MB/s (native) when used on previous drives:

3592 Generation 1 & Generation 2 Drives
Native CAPACITY and Native TRANSFER RATE:

<u>3592 Model J1A Drive:</u>	<u>TS1120 (3592 Model E05) Drive:</u>
300 GB at 40 MB/s on 3592 JA cartridges	500 GB at 104 MB/s on 3592 JA cartridges
60 GB at 40 MB/s on 3592 JJ cartridges	100 GB at 104 MB/s on 3592 JJ cartridges
300 GB at 40 MB/s on 3592 JW cartridges	500 GB at 104 MB/s on 3592 JW cartridges
60 GB at 40 MB/s on 3592 JR cartridges	100 GB at 104 MB/s on 3592 JR cartridges

Fujifilm has the 500 GB native capacity 3592 JA cartridge, as well as the 500 GB native capacity 3592 JW (WORM) cartridge... and the JJ, JR and Drive-cleaning cartridges too; see chart below.

Bidirectional Re-format Support: 3592 Generation 1 <—> 3592 Generation 2

The second generation drive (3592-E05 a.k.a. TS1120) is both read & write compatible with its higher capacity and faster transfer rate E2 format and the first generation drive's E1 format:

The TS1120 drive can read/write in both the earlier drive's "E1" format (it is backward read/write compatible) or in its higher capacity and faster transfer rate "E2" format. Existing cartridges used by 3592 J1A drives can be used in their existing "E1" format or reformatted by the 3592 E05 drive (TS1120 drive) for higher capacity and faster transfer rate enabled by the new drive.

The first generation drives (3592-J1A drives) only have E1 format capability; a 3592-J1A drive can reformat cartridges having an existing E2 format to its E1 format.

3592 Cartridge System Tape Media	3592 J1A Drive E1 Format	3592 E05 Drive	
		E1 Format	E2 Format
3592 JA Data & JW Data Worm (1998')	300 GB	300 GB	500 GB
3592 JJ Economy & JR Economy Worm (807')	60 GB	60 GB	100 GB

Note: Backward compatibility, the reformat process and WORM functionality can vary by OS, ISV program and drive controller.
 Note: 1 GB equals 1,000,000,000 bytes; 1 MB equals 1,000,000 bytes. Native = Without Compression. Data compression is estimated at 3:1 for IBM zSeries mainframe environment attachments and 2:1 for all open system environment attachments.
 Since September 2006, all TS1120 drives have shipped with a feature for optional Data Encryption at the drive/media level.

Enterprise Tape Family 3592:

3592 Enterprise Tape Cartridges	<u>Fujifilm 3592 Cartridge Product Codes</u>		
	STANDARD	Bar Code Labeled	Labeled & INITIALIZED
3592 "JA" Data Cartridge 1998 '	26400310	26400311	26400312
3592 "JJ" Economy Cartridge 807 '	26400320	26400321	26400322
3592 "JW" WORM Data 1998 '	26400330	26400331	26400332
3592 "JR" WORM Economy 807 '	26400340	26400341	26400342
3592 "JB" Extended Data 2706 '	Fujifilm brand JB & JX cartridges not currently available * IBM brand JB & JX cartridges available January 2007		
3592 "JX" Extended WORM 2706 '			
3592 CL "CLN + JA" 50 cleanings	26400390	26400391	-----

Note: JA, JJ, JW, JR, JB & JX are the Media Identifier, 7th and 8th characters following the six character Volume ID of 3592 Bar Code Labels. Typical 3592 cartridge bar code label format: nnnnnnJx. The typical label format for cleaning cartridges is CLNnnnJA. Exceptions: e.g., 3592 cartridges inside a StorageTek 9310 Powderhorn Tape Library require a different bar code label schema.