IBM

IBM 3592 tape cartridge

High-capacity tape media engineered for the enterprise

Today's enterprise data centers face unprecedented data protection challenges. They must satisfy increasing demands for data retention, security and availability while working with reduced budgets. IBM 3592 tape cartridges are designed to help enterprise data centers address these challenges.

Investment protection

With enterprise tape libraries holding thousands of cartridges, the affordability of keeping the technology current can be significantly impacted by the cost of upgrading the tape media. IBM 3592 tape cartridges support media re-use by enabling the drive to reformat and upgrade prior generation media cartridges. That means existing media cartridges achieve both improved performance and capacity which helps you mitigate the impact of a tape subsystem upgrade.

Increased capacity and flexibility

For administrators who require rapid data access or who are looking to lower media costs, IBM offers two different sizes of 3592 tape cartridges. The IBM economy cartridge offers the same quality and benefits as our standard length cartridges, but in a shorter length. This shorter length cartridge is less expensive and enables faster seek times.

IBM 3592 Tape Cartridge

Enhanced data security

Data helps your company drive innovation, growth and competitive advantages. Failure to safeguard data can lead to business disruption, lost productivity, negative customer satisfaction and penalties from regulatory violations. The IBM 3592 tape cartridge is designed to protect your data with features such as write-once-read-many (WORM) cartridges, encryption and the ability—in conjunction with the tape drive—to monitor cartridge life. These capabilities work together to help ensure that stored data is secure from loss or corruption.

Superior reliability

To meet the rigorous standards of enterprise data centers, the IBM 3592 tape cartridge features a memory chip that stores performance and usage records. These records are used to proactively determine whether the tape needs to be replaced. The cartridge utilizes thick plastics, ultrasonic welding techniques and tamper-proof screws to provide protection against accidental damage. And the media uses a uniform, ultra-smooth magnetic layer with a refined coating to improve media reliability, increase performance and minimize tape head wear.

BaFe (Barium Ferrite) technology offers a longer archival life

Barium Ferrite (BaFe) is a type of magnetic particle with can be greatly reduced in size to improve recording density without magnetic signal loss. In accelerated life tests, BaFe shows no loss of magnetic signal. Based on its chemical stability, archivability of BaFe proves to be over 30 years. Metal particles show a slight degradation in magnetic signal over 30 years although not detrimental to read/write performance.

IBM 3592 Tape Cartridge JC and its future generations use Barium Ferrite particles with NANOCUBIC technology for a thin and uniformly coated magnetic layer. Barium Ferrite will extend the life of your drive - High signal-to-noise ratio of BaFe ensures maximum performance even when natural head wear occurs. Users can expect longer head life when using BaFe tape.

Accelerated life test measures the change of tape's magnetic property under temperatures of 60 degrees celsius, and humidity of 90%, where one day under such an environment corresponds to one year in ambient conditions.

Ordering options

IBM 3592 tape cartridges are available in packs of twenty, and cleaning cartridges come in packs of five. Data cartridges can be purchased with or without EBCDIC initialization. Both IBM 3592 tape cartridges and cleaning cartridges can be purchased with or without labels required for use in an IBM tape library.

Capacity

Format	Cartridge	TS1160	TS1155	TS1150	TS1140	TS1130	TS1120	3592 J1A
3692A1 J1A		-	-	-	-	RO	WR	WR
	JJ/JR	-	-	-	-	128 GB	100 GB	60 GB
	JA/JW	-	-	-	-	640 GB	500 GB	300 GB
3592A2 E05		-	-	-	RO	WR	WR	-
	JB/JX	-	-	-	700 GB	700 GB	700 GB	-
3592A3 E06		-	-	-	WR	WR	-	-
	JB/JX	-	-	-	1 000 GB	1 000 GB	-	-
3592A4 E07		RO	RO	WR	WR	-	-	-
	JB/JX	-	-	-	1 600 GB	-	-	-
	JK	500 GB	500 GB	500 GB	500 GB	-	-	-
	JC/JY	4 000 GB	4 000 GB	4 000 GB	4 000 GB	-	-	-
3592A5 E08		WR	WR	WR	-	-	-	-
	JK	900 GB	900 GB	900 GB	-	-	-	-
	JC/JY	7 000 GB	7 000 GB	7 000 GB	-	-	-	-
	JL	2 000 GB	2 000 GB	2 000 GB	-	-	-	-
	JD/JZ	10 000 GB	10 000 GB	10 000 GB	-	-	-	-
3592B5 55F		WR	WR	-	-	-	-	-
	JL	3 000 GB	3 000 GB	-	-	-	-	-
	JD/JZ	15 000 GB	15 000 GB	-	-	-	-	-
3592A6 60F		WR	-	-	-	-	-	-
	JM	5 000 GB	-	-	-	-	-	-
	JE/JV	20 000 GB	-	-	-	-	-	-

Characteristics

Magnetic Material	Barium Ferrite from JC generation, Metal Particle previous generations
Weight	244 g (8.6 oz)
Estimated archive life	Up to 30 years
Load/unload	20,000 load, unload and initialization cycles
Dimensions	24.5 mm H × 109 mm W × 125 mm D (0.97 in. × 4.3 in. × 4.9 in.)
Toxicity	Nonhazardous to human health in anticipated use
Flammability	Self-extinguishing per UL94
Temperature	16°C - 32°C (60.8°F - 89.6°F)
Dew point	22°C (71.6°F)
Relative humidity	20% - 80%
Warranty	Limited lifetime: Free from manufacturing and material defects useful life of product

Values are in GB (10^9) native capacity (no compression)

Devices with updated firmware may support reformatting media written with unsupported formats.

Cartridge Acronyms displayed on Capacity table:

JJ Economy JR Economy WORM

JA Standard JW Standard WORM

JB Extended JX Extended WORM

JK Advanced Type C Economy JY Advanced Type C WORM

JC Advanced Type C JZ Advanced Type D WORM JL Advanced Type D Economy JV Advanced Type E WORM

JD Advanced Type D - Not Supported

JM Advanced Type E Economy WR Write and Read

JE Advanced Type E RO Write and Read

Why IBM?

With more than 65 years of experience in delivering tape-based storage technology, IBM Storage solutions deliver the scalability, security and reliability that organizations need to manage the massive volumes of data that have become common today.

Innovative technology; excellent performance; and a broad portfolio of proven storage hardware, software and solutions offerings are just a few of the reasons why you should consider storage solutions from IBM, including IBM 3592 Tape Cartridges.

For more information

To learn more about IBM 3592 tape cartridges, please contact your IBM representative or IBM Business Partner, or visit: **ibm.com**/it-infrastructure/storage/tape/media

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