

## IBM TotalStorage 3592 Tape Controller Model J70



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### Highlights

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- **Enables attachment of IBM® TotalStorage® tape drives to IBM @server® zSeries®**
- **Supported in the IBM TotalStorage 3494 Tape Library**
- **Supported in an IBM TotalStorage Silo Compatible Frame**
- **Supported in selected IBM stand-alone racks and frames**
- **Supports IBM TotalStorage 3592 Tape Drive Model J1A Write Once Read Many (WORM) function**
- **Designed to attach to ESCON® and/or FICON® hosts**

### Overview

The IBM TotalStorage 3592 Tape Controller Model J70 (3592 J70 controller) is designed to offer ESCON and FICON attachment of either 3592 J1A or 3590 tape drives in an IBM 3494 library, Silo Compatible Frame or stand-alone rack or frame.

It is designed to exploit the performance and function of the 3592 J1A tape drive, including WORM support for both 60GB Model JR and 300GB Model JW WORM cartridges. The 60GB cartridge is a lower capacity option designed to provide faster time to data for OLTP applications.

Tape drives can be shared by FICON and ESCON hosts and may help reduce hardware and infrastructure requirements.

The 3592 J70 controller is built from 'best-of-breed' components that include IBM @server pSeries® server technology, the AIX® operating system and the PCI-X bus architecture. Redundant hot-swappable components are designed to failover automatically to provide high availability include power supplies and cooling fans. The 3592 J70 controller also offers the ability to perform non-disruptive addition of 3592 J1A drives which helps enhance configuration flexibility and availability.

The 3592 J70 controller supports the IBM TotalStorage Master Console (TSMC). The TSMC is designed to allow an IBM Technical Service Representative to download new microcode, remotely monitor the installation, and automatically dispatch a service representative when required.

### **Higher Performance**

The 3592 J70 controller is designed to provide up to 50% more performance than the 3590 A60 controller. FICON is recommended to provide optimum performance, and up to four FICON attachments are supported. Connectivity options also include up to eight ESCON attachments or an intermix of ESCON and FICON.

The 3592 J70 controller is designed to support applications that require high data transfer rates, write thousands of files to a single tape, write frequent synchronize marks, or randomly retrieve records or files from a high capacity cartridge. This functionality is supported by a combination of 3592 J70 controller microcode and IBM z/OS® channel programs.

### **Flexible Configuration Options**

The 3592 J70 controller supports the following 3592 J1A tape drive configurations:

#### **IBM Automation**

- *Up to eight 3592 J1A tape drives and a 3592 J70 controller can be installed in a 3494 D24 frame*
- *Up to four additional 3592 J1A tape drives can be attached to the controller in an adjacent 3494 L22 frame*
- *Alternatively, up to eight additional 3592 J1A tape drives can be attached to the controller in an adjacent 3494 D22 frame*

#### **StorageTek Automation**

- *Up to two 3592 J70 controllers can be installed in a 3590 C10 Silo Compatible Frame*
- *Each J70 controller can attach up to sixteen 3592 J1A tape drives installed in a 3592 C20 frame*

### **Standalone Environment**

- *Up to twelve 3592 J1A tape drives can be installed with a 3592 J70 controller in a 2m rack*
- *Up to eight 3592 J1A tape drives can be installed with a 3592 J70 controller in a 1.6 m or 1.8 m rack*
- *Up to sixteen 3592 J1A tape drives can be attached to a single 3592 J70 controller*

The 3592 J70 controller supports the following FC or SCSI 3590 tape drive configurations:

#### **IBM Automation**

- *Up to four 3590 tape drives and a 3592 J70 controller can be installed in a 3494 D14 frame*
- *Up to six additional 3590 tape drives can be supported in an adjacent 3494 D12 frame*
- *Alternatively, up to four additional 3590 tape drives can be supported in an adjacent 3494 L12 frame*

#### **StorageTek Automation**

- *Up to two 3592 J70 controllers can be installed in a 3590 C10 Silo Compatible Frame*
- *Up to 12 3590 tape drives installed in three 3590 C12 frames can be attached to the J70 controller*

## Standalone Environment

- *Up to four 3590 tape drives and a 3592 J70 controller can be installed in a 3590 A14 frame*
- *Up to four SCSI 3590 tape drives can be installed with a 3592 J70 controller in a supported rack*
- *Up to four FC 3590 tape drives can be installed with a 3592 J70 controller in a 1.8 or 2.0m rack*
- *Up to two FC 3590 tape drives can be installed with a 3592 J70 controller in a 1.6m rack*
- *Up to twelve 3590 tape drives (in up to three racks) can be attached to a single 3590 J70 controller*

## IBM @server zSeries and S/390 software support

The J70 controller is supported on zSeries and S/390® servers running z/OS, z/VM®, and VSE/ESA™. For more information on software support for the J70 controller with 3592 J1A drives, visit:

[ibm.com/storage/tape/drives/3592/3592opn.pdf](http://ibm.com/storage/tape/drives/3592/3592opn.pdf)

## Competitive Financing Options

IBM Global Financing offers some of the industry's most competitive rates for a wide range of IBM products and services, including the IBM TotalStorage 3592 Tape Controller Model J70, for the duration of the financing term. For more information, please visit:

[ibm.com/financing](http://ibm.com/financing)

## IBM TotalStorage 3592 Tape Controller Model J70 at a glance

### Characteristics

Number of ESCON interfaces	up to 8
Number of FICON interfaces	up to 4
ESCON maximum channel link speed	17MB/sec
FICON maximum channel link speed	2Gb/sec
ESCON maximum distance (unrepeated, single link to controller)	3km
FICON long wavelength maximum distance (unrepeated, single link to controller)	10km
FICON short wavelength maximum distance (unrepeated, single link to controller)	300m
Warranty	1 year

### Physical characteristics

Dimensions	222 mm H x 445 mm W x 603 mm D 8.7 in H x 17.5 in W x 23.8 in D
Weight	39 kg (86 lb)

### Operating environment

Temperature (with media)	16° to 32° C (60° to 90° F)
Relative humidity	20% to 80% non-condensing (limited by media)
Wet bulb maximum	23° C (73.4° F)
Heat output	2.05 BTU/hr
Power requirements	600 Watts

Maximum drive attachment capability	3592 Model	3590 Model	3590 Model
	J1A	E, H	B, E, H
	FC 2-Gbps	FC 1-Gbps	SCSI
		Attached	Attached
Stand-alone rack	16	12	8
3494 Library	16	10	10
Silo compatible frame	16	12	8
A14	NA	12	8

**For more information**

For more information, contact your IBM representative or IBM Business Partner.

Or visit:

**ibm.com**/storage/tape



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September 2004  
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MB, GB and TB equal 1,000,000, 1,000,000,000 and 1,000,000,000,000 bytes, respectively, where referring to storage capacity. Actual storage capacity will vary based upon many factors and may be less than stated. Some numbers given for storage capacities give capacity in native mode followed by capacity using data compression technology.

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