



WESTPOINT



# I-6594/AIT Magnetic Tape Library for IBM S/390 and Open Systems

## Highlights

### Tape Library Data Server

- Tape Technology
- Advanced Intelligent Tape (AIT-2)
  - 50 GB per cartridge native
  - 130 GB per cartridge compressed

- Scalable Library Capacity:
- 100 Cartr., 5 TB native, 13 TB compr.
  - 200 Cartr., 10 TB native, 26 TB compr.
  - 345 Cartr., 17 TB native, 44 TB compr.

- Memory In Cassette (MIC)
- 2 to 16 Tape Drives
  - Midpoint loading
  - 192 MB/s max. aggregated data rate

### Control Unit

- IBM 3490 Emulation
- Up to 8 Channel Interfaces
  - ESCON
  - Block Multiplex Channel
  - SCSI
  - Fibre Channel
- Fault tolerant Twin Control Unit  
Fault tolerant Power Supply  
RAID Protection for System Disk  
Remote Diagnostic



The I-6594/AIT is an economic and flexible library data server for IBM Mainframes and Open Systems. It supports Sony's second generation Advanced Intelligent Tape Technology (AIT-2) and maintains a scalable tape storage from 13 TB up to 44 TB. Connectivity is provided to IBM Mainframes via ESCON and Block Multiplex Channel and to UNIX, Windows NT and Local Area Networks via SCSI and Fibre Channel.

The second generation Advanced Intelligent Tape System incorporates new features, not available in any other tape technology.

### Capacity and Data Integrity

The I-6594/AIT provides a cartridge capacity of 50 GB native. With an average data compression factor of 2.6 : 1 tape capacity increases to 130 GB, providing a total library capacity of 44 TB on just 0.6 m<sup>2</sup>. The combination of the robust drive design and the new Advanced Metal Evaporated tape (AME), results in exceptional reliability. The data cartridge that with stands 30,000 passes. Mean time between failures is 200,000 hours and the head life exceeds 50,000 hours. A world wide unique media serial number and a unique media, data and error statistic technique guarantee highest data integrity.

### Memory In Cassette (MIC)

The intelligent part of AIT is a memory chip, built into the data cartridge. The MIC- chip contains the tape log file, holding a world wide unique manufacturers serial number, a user programmable volume serial number, media- and data integrity statistics (load count, access count, error correction statistics) and positioning information to individual partitions on the tape. The log file can be accessed remotely without loading the cartridge. It improves data integrity and eliminates the need of Barcode.

The remote sensing capability of volume serial number and individual positioning information on tape eliminates the need of rewinding the tapes before unloading. Cartridges can be loaded at any tape position and tape can be moved to individual tape files at high speed. This feature improves overall access time to tape files significantly and supports creation of virtual volumes for volume stacking and maintains fast access to multi volume files.

### Best Price / Performance Ratio

The I-6594 automatic tape server includes up to 16 tape transports with a maximum aggregated data rate of up to 192 MB/s and 345 cartridges with up to 44 TB of compressed data on just 0.6 m<sup>2</sup> floor space. Price per GB is significantly lower than any other tape format available today.

### S/390 Connectivity

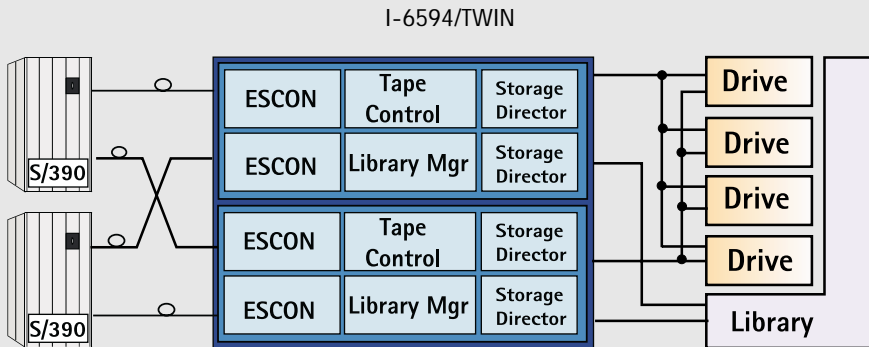
The I-6594 Library Control Unit provides connectivity to S/390 via up to 8 ESCON and / or Block Multiplex Channel interfaces. Up to 4 cached Storage Directors support up to 16 tape transports.

The Library Manager controls cartridge movement by intercepting Load / Display messages, eliminating the need of any host software component for robot control. Supported are all tape management systems, including RMM and CA 1.

## Open Systems Connectivity

Connectivity to RS/6000, UNIX and Windows NT systems is provided via optional SCSI and Fibre Channel interfaces. Library sharing between different platforms is possible by dividing it into two or more logical library partitions.

single physical AIT- cartridge. Tape data are cached on disk and eventually migrated to tape. Furthermore, by providing up to 256 virtual tape drives, the application program does not need to wait for the availability of real tape drives and the back up window can close while data are moved from disk cache to tape in the back ground.



## Fault Tolerance

The optional I-6594/TWIN Control Unit maintains fault tolerance for library control and data path. Whenever one of the Twins fail, the other one will take over its duty. Redundant Power Supplies and RAID Protection for the controllers system disk are available as optional features.

## Data Exchange and Backward Compatibility

In addition up to 16 internal tape transports the I-6594 supports IBM 3480, 3490, 3590 and 3422 compatible tape drives with or without loader for backward compatibility and data exchange.

## Virtual Tape Server

A virtual tape server with up to 4 TB RAID protected disk cache is available as an optional feature. It emulates up to 256 logical tape drives and assures full utilization of high capacity tape cartridges by stacking multiple virtual cartridges to a

## Investment Protection

The I-6594 Magnetic Tape Library Data Server is a future oriented investment, meeting today's tape processing needs. With the ability to be upgraded to a virtual system and to the next generation tape drives, it also meets the users requirement for the future.

# Specifications

### Tape System

Tape Technology	Advanced Intelligent Tape (AIT-2)
Tape Format	8 mm
Capacity per Cartridge	native 50 GB
Average Compression	2.6 : 1
Standard Features	Memory In Cassette (MIC) Mid Tape Load Point

### Library

I-6594/AIT Mod.1	100 Cartridges, 5 TB native
I-6594/AIT Mod.2	200 Cartridges, 10 TB native
I-6594/AIT Mod.3	345 Cartridges, 17.25 TB native

Number of Tape Drives	2 to 16
Theor. Aggreg. DataRate	192 MB/s

### Control Unit

Number of Channels	up to 8
Channel Types	
- ESCON	yes
- Block Multiplex	yes
Remote Diagnostic	standard
Redundant Power	optional
Control Unit RAID Protection	optional
Fault Tolerant TWIN Control	optional
Virtual Tape Server	optional

### Physical Characteristics

Width x Height x Depth (cm)	90 x 182 x 60
Floor Space (m <sup>2</sup> )	0.54
Weight (kg)	160
Voltage (V/Hz)	110/60, 220/50
Power (KVA)	2.2

Westpoint Peripherals Ltd  
Felton Lane  
Felton  
Bristol, BS40 9UX  
Tel: +44 (0)1275 474740  
Fax: +44 (0)1275 474760  
E-mail: sales@wpoint.co.uk  
<http://www.wpoint.co.uk>