



WESTPOINT

I-6590/DLT High Capacity Cartridge System for IBM-Users



The I-6590/DLT half inch tape cartridge system offers the best combination of performance, capacity and price available today. It utilizes up to 12 MB/s data rate and features a storage capacity of 40 to 80 gigabytes per cartridge. Loader and libraries for hundreds of terabytes are available for automated tape processing.

Designed to Perform

The I-6590/DLT is based on Quantums 1/2 inch Digital Linear DLT 800 tape technology with a native storage capacity of 40 GB per cartridge. The high efficiency Digital Lempel-Ziv (DLZ) compression/compaction feature can double or triple the cartridge capacity. Read/Write backward compatibility to DLT 7000 and DLT 4000 is a standard feature. Sustained data rate ranges from 6 MB/s to 15 MB/s, providing a back-up capacity beyond 20 gigabytes per hour. A tape directory ensures high speed restore operations.

Built for Reliability

The linear recording technique, the high accurate tape guide system and the adaptive control mechanism provides reliability and durability, unmatched by any other recording method. The dual channel read/write head features a life time of 10,000 hours and accepts 1,000,000 tape media passes. Mean time between failures is 80,000 hours.

A powerful 5-layer error detection and correction mechanism ensures a hard error rate of 10⁻¹⁷, the best data integrity specification for a 5 1/4" from factor tape drive. Numerous diagnostic aids, including a comprehensive offline test and cumulative error information help to isolate and repair failures quickly.

Loader and Libraries

The Loader provide up to 500 gigabytes unattended back-up capacity. High end Libraries for 264 to 1,560 cartridges maintain near-online storage for hundreds of terabytes.

IBM S/390 and Siemens BS 2000 Connectivity

The I-6590/DLT connects to IBM S/370, S/390 and compatible systems (Amdahl, Comparex and HDS) as to Siemens BS2000, UNISYS and BULL systems via ESCON or, the Block Multiplex Channel or FIPS 60 Channel.

AS/400, RS/6000, UNIX and LAN Connectivity

The cartridge tape system provides advanced storage technology for high speed back-up and restore capability to midrange systems and workstations, normally available only for mainframes.

Popular Tape System Emulation

The I-6590/DLT cartridge system emulates various IBM and Siemens tape systems, including IBM 3480, 3490 and 3422 as well as Siemens 3580, 3590 and 3519. It provides compatibility with all popular operating systems, including OS/390, VM/VSE, OS/400, BS2000, GCOS8, AIX and Windows NT.

Highlights

Compatibility

IBM 3480, 3490
Siemens 3580, 3590

Storage Capacity

40 GB/Cartridge uncompressed
80 GB/Cartridge 2 : 1 compressed

Sustained Data Rates

6 MB/s uncompressed
up to 15 MB/s compressed
17 MB/s ESCON data rate
4.5 MB/s BMC data rate

Connectivity

IBM S/390
Amdahl, Comparex, HDS
AS/400, RS/6000
Siemens BS2000
UNISYS
BULL
GCOS8

Interface

ESCON
Block Multiplex Channel
Channel Type 2 and S
FIPS 60 Channel

Sophisticated Controller

Dynamic Four Channel Switch
Four storage directors support:
IBM 3480/90/3590 compatible drives
IBM 3422 open reel 1/2 Inch
AIT2
Optical disks
DVD

A Powerful Control Unit

Intercoms unique control unit connects to IBM, ESCON and Block Multiplex Channel, and Channel to Siemens Channel Type S Type 2, to the FIPS 60 Channel and to SCSI interfaces. A dynamic channel switch feature supports access via four hosts.

The control unit includes up to four cached storage directors, maintaining simultaneous high speed operation for up to 16 tape transports. The Mixed Media feature provides connectivity to other tape and disk formats including IBM 3480, IBM 3490, IBM 3590, IBM 3422 compatible open reel tapes, AIT2, optical disk and DVD.

Specifications

Drive

DLT 8000	
Sustained Data Rate	6 MB/s
Compressed (2:1)	12 MB/s
Burst Data Rate	20 MB/s

Data Organization

Recording Format	208 track serial serpentine
Recording Density	98,000 bpi
Data Compression	DLZ
Capacity uncompr.	40 GB
Capacity 2 :1 compr.	80 GB

Recording Media

Standard	ECMA, ISO
Tape cartridge	0.5" DLT IV
Cartridge	4.1 x 4.1 x 1"
Shelf life	30 years at 20° C, 40% RH

Reliability

MTBF	80,000 hr.
Head life	10,000 hr.
Media	1,000,000 passes

Loader and Libraries

I-6594/DLT-5	5 cartridges
I-6594/DLT-7	7 cartridges
I-6594/DLT-50	56 cartridges
I-6594/DLT-150	150 -1,560 cartridges

Interface

ESCON Fiber Optic Channel
Block Multiplex Channel
Channel Type 2 and S
FIPS 60 Channel
AS/400 Feature No. 2644
RS/6000 S/370 Channel Emulator
SCSI-2 Interface

Control Unit

Supported devices	16
Number of storage directors	4
Number of channels	4
Channel switch	16 x 12

Other supported Tape Formats

1/2 inch open reel IBM 3422 compatible
3480 / 3490 /3590 cartridge
8 mm EXABYTE
SONY AIT2
Optical Disk
DVD

Device Emulation

IBM 3480, IBM 3490, IBM 3422
Siemens 3580, 3590, 3519

Dimensions

Width	19"	(482,6 mm)
Height	4 HU	(177,8 mm)
Depth	27"	(700 mm)
Weight	58.7 lb	(27 kg)

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