

5460



**Memorex Telex
Tape Cartridge Subsystem**

Memorex Telex

5460 Cartridge Tape Subsystem For System/38 Users

Focused to provide Midrange System users state of the art technology previously available only in large mainframe environments, Memorex Telex is proud to bring you the 5460 Cartridge Tape Subsystem.

Benefits that keep you ahead

Exceptional performance, reduced cost of ownership, lower media costs, floor space savings, easy operation and more!

The Memorex Telex 5460 is an ANSI compatible cartridge tape subsystem that gives you the configuration capability of an IBM 3430/3422 subsystem without software modifications.

Although 60% smaller, the Memorex Telex 5460 is fully compatible with the IBM 3480 Cartridge Tape Subsystem and provides 100% data interchange. What's more, the 5460 is the only cartridge tape subsystem with the performance throughput needed to provide tape backup for the larger capacity IBM 9335 Disk Drives.

The 5460 achieves its outstanding performance levels by using a standard 512 Kilobyte buffer (expandable to 2 Megabytes), and channel transfer rates of from 750 Kilobytes per second up to 1.5 Megabytes per second.

Compatibility

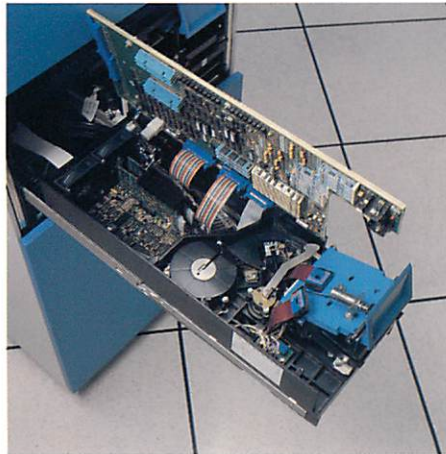
No software or operation modifications are required to integrate the Memorex Telex 5460 into your Midrange system environment. Since the 5460 is 100% format and media compatible with the IBM 3480, this level of compatibility allows you to interchange data between your Midrange system and large IBM or IBM-compatible mainframes.

The 5460 Subsystem uses Memorex 3480 Cartridge Tapes as well as all other leading brands of 3480 tape cartridges that meet the necessary technology standards. These industry standard $\frac{1}{2}$ " tape cartridges can store in excess of 200 Megabytes of data as compared to the 160 Megabyte capacity of reel to reel tape. What's more, data stored on 3480 tape cartridges requires only one fifth the library storage space of the same amount of data stored on tape reels.

Reliability

The Memorex Telex 5460 exceeds the performance, data integrity and hardware reliability of any open reel tape drive by combining a simplified mechanical design with the following features:

- Simple microprocessor-based control of the tape with no vacuum columns or capstans.
- Air-bearings utilized at key points in the tape path components for longer tape life.
- Extensive use of analog LSI components and microprocessors to assure perfect control of the subsystem's performance.
- Long life, brushless D.C. motors for quiet operation without the need for preventative maintenance.
- 18 track thin film heads designed to have minimal media contact and provide years of trouble-free operation.
- Built-in error recovery and correction to reduce unproductive CPU retries.



Simplified mechanical design and dependability features are why the Memorex Telex 5460 exceeds the performance and reliability of any open reel tape drive.

Maintainability

To keep the Memorex Telex 5460 operating at optimum performance levels, built-in microprocessor-based diagnostics, resident in the drive unit, continuously monitor and exercise the read/write circuitry, tape control, and servo mechanism. Remote diagnostics are also available via an RS-232 port.



Big, bright, easy to read displays at the controller and drive level.

The 5460 has large, easy to read displays at the controller and drive level that advise the operator or customer engineer of any condition that may require intervention. When cleaning is needed, the 5460 automatically places a message on its operator panel. And, cleaning the 5460 is nothing like the labor intensive duty required by open reel drives.

To clean the 5460, a Memorex Cleaning Cartridge is simply inserted, and the rest is totally automatic. When the cleaning is complete, the cartridge is removed, and that's all there is to it.

Configurations

The minimum configuration of a Memorex Telex 5460 Cartridge Tape Subsystem consists of one controller and one tape drive (1x1) housed within the same compact cabinet.

The maximum configuration 5460 Subsystem has one controller and two tape drives in one cabinet, and two more tape drives in another cabinet (1x4). Either of the two cabinets can contain a single tape drive which can then be field upgraded to two drives at a later date.

High Performance Features

To maintain peak performance levels in 5460 Subsystems configured with multiple tape drives, a 2 Megabyte buffer feature is available. Because of its high performance ability, single 5460 Subsystems can be dynamically shared between two Midrange systems using a two channel switch feature.

Automatic Cartridge Loader

Easily attached to the 5460, the Automatic Cartridge Loader allows unattended, sequential loading of up to 10 tape cartridges. This feature gives you the ability to backup more than 2 Gigabytes of data without operator intervention.

5460 Highlights

- Fully performance compatible as well as 100% format and media compatible with the IBM 3480.
- Features a standard 512 Kilobyte buffer, expandable to 2 Megabytes, and channel transfer rates of from 750 Kilobytes per second up to 1.5 Megabytes per second.
- Uses Memorex or any other industry standard brand of 3480 cartridges for lower media costs and improved data integrity... over 10 times the data reliability of open reel subsystems.
- Needs only one fifth the library storage space of open reel subsystems.
- Offers a 2 Megabyte buffer, two channelswitching capability, and an Automatic Cartridge Loader.
- Has lower power requirements and generates less heat, and is 60% smaller than the IBM 3480.
- Offers a full range of diagnostics and dependability assurance features to keep maintenance service effective.



Ideal for large tape file jobs, the Automatic Cartridge Loader can sequentially load up to 10 cartridges without operator intervention.

Cartridge media and accessories supplier

Memorex Telex is a major supplier of Memorex brand 3480 compatible tape cartridges, cleaning cartridges, storage racks, transportation carts, and carrying trays needed to build an efficient cartridge library. For complete details on these and other Memorex computer supplies, call toll free 1-800-CALL-MRX.



5460 Tape Cartridge Subsystem Specifications:

Physical Specifications

- Height: 1.5 M (58.75 In.)
- Width: 0.609 M (24.0 In.)
- Depth: 0.749 M (29.5 In.)
- Weight: 209* 189 KG,
(460* 420) Lbs.
- Floor Loading: 457* 412 KG/Mtr.
(65* 59 Lbs/SqFt)

Service Clearance

- Front: 0.914 M (36 In.)
- Rear: 0.914 M (36 In.)
- Left Side: None Required
- Right Side: None Required

Environmental Specifications

- Operating Range: 16–32°C
(60–90°F)
20–80% Relative Humidity
Maximum Wet Bulb: 26°C (78°F)
- Non-Operating: 0–49°C (0–120°F)
8–80% Relative Humidity
Maximum Wet Bulb: 27°C (80°F)
- Acoustic Output: Meets NC-55
(Office Environment)

Electrical Specifications

- Power Consumption: 0.770,
1.21* KVA
- Voltage: 220 VAC (RMS), 1 PHASE,
48 TO 62 Hz.
- Heat Generation: 2233, 3510*
BTU/Hr. Max.

Functional Specifications

- Media Description
18 Tracks Parallel: ½ In. Cartridge
Media
- A.N.S.I. Standard: X3B5/86-XX
- Tape Length: 165 M (536 Ft.)
Minimum

Data Density/Format

- Error Management: Parity, CRC,
DRC, VRC.
Capacity (Unformatted) 246, MBytes
Capacity (25KByte Records)
218 MBytes.
- Flux Density: 9720 FRCPM
(24,689 FRPI)
- Data Density: 15698 Bytes/Cm
(39,872 Bytes/In.)
- Format: Double-Density Group
Coded
A.N.S.I. Compliant

Connectivity

- System 38 attach through 7970
feature

Tape Speeds

- Read/Write: 2.0 M./Sec.
(78.74 In./Sec.)
- Rewind/Search: 4.0 M./Sec.
157.48 In./Sec.)
- Rewind Time: 48 Seconds
Maximum from P.E.O.T.
- Data Transfer Rate: 1.5
MByte/Sec.

Regulatory Compliance

- UL-478, CSA C-22.2, FCC J-15,
VDE, IEC

Specifications Subject to Change.

1 x 1 configuration

1 x 2 configuration*



MEMOREX TELEX

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