

- Single Drive-at-a-Time Expansion Capability
- Completely Self-Contained
- IBM 3740 Format
- Modular Design

## **FEATURES**

The TERAK 8512 is the companion to the TERAK 8510 DATA PROCESSOR. The 8512 is a direct access mass memory device providing single drive expansion capability in a stand-alone module. The 8512 utilizes flexible magnetic disks as its storage medium, in IBM 3740 compatible data format. The basic 8512 unit consists of a single disk drive unit, power supplies, A.C. line filter and cord receptacle, air cooling and filtration system and externally accessable connectors for interconnect with the 8510 DATA PROCESSOR and daisy chain connection to additional 8512 units.

IBM compatibility is achieved by means of identical read/write/erase head geometry, head positioning to meet precise track location requirements, equivalent recording levels and compatible bit packing densities on all tracks.

Fast data throughput — with high reliability — is assured through head positioning accuracy, superior read/write circuitry and overall mechanical design. Precision machined, single piece, cast aluminum frame and rigid, cast carrier mechanism provide long lived, dependable operation. A wide mouth, bistable door facilitates media loading. Diskette protection is provided by a mechanical inter-

lock preventing door closure if the diskette is not properly inserted. Gentle handling of the diskette is achieved through use of an expandable clutching system. A ceramic read/write/erase head is standard on the 8512, providing extended head and media life.

Reduced power consumption and longer component life are achieved by applying an at-rest voltage of only 5 volts to stabilize the stepping motor. A short duration 24 volt pulse, applied during the Track-to-Track stepping operation, provides rapid response and cooler operation. When the +5 VDC drops below 4.3 VDC, all write circuitry is deactivated to prevent inadvertant writing or erasing of data.

The 8512 units are stackable and are housed in a cabinet whose styling and color matches the 8510 DATA PROCESSOR. Installation consists of merely connecting the A.C. power line cord, connecting a daisy chain flat ribbon cable between the 8510 and 8512 (or 8512 to 8512) and moving a pluggable system terminator to the last drive in the daisy chain. There are no operator switches on the 8512; power is controlled from the 8510 as are all control signals.

TERAK-CORPORATION • P.O. Box 3078 • Scottsdale, Arizona 85257 • 602/991-1580

## **SPECIFICATIONS**

Diskette ..... IBM 3740 Format Compatible

Capacity 1.94 × 106 bits, IBM In-

itialized Disk

Capacity/track 26,624 bits, IBM In-

itialized Disk

Bit Density (inner track) 3,268 BPI

Average Latency 83.3 ms

Access Time 6 ms Track-to-

Track 24 ms Head Settle

176 ms Random

Access

Head Load Time 50 ms

No. of Tracks 77

48 Tracks/inch Track Spacing

A.C. Power

Requirements . 105,120,220,240 VAC @ 50/60 Hz

105 watts typical

Environmental ... Temperature, Operating

+40°F to +90°F with Media

Temperature, Storage

-30°F to +150°F without Media

Humidity

20% to 80% R.H.

(non-condensing)

Reliability ...... Read error rate: less than 1 in 109

bits

Unrecoverable read error rate: Less than 1 in 1012 bits Head Life: 30.000 contact hours Media Life: Greater than  $10 \times 10^6$ 

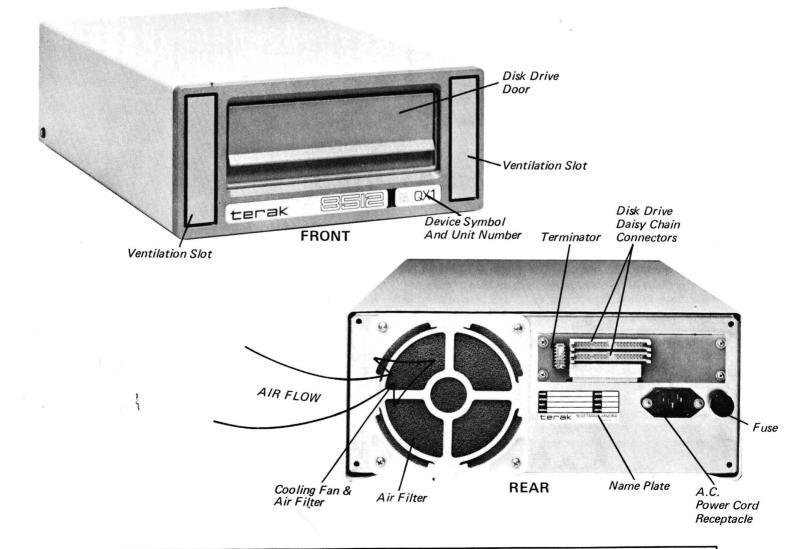
passes per track on approved

media

Height 5.5 in. (14.0 cm) Physical: .....

Width 12.2 in. (31.0 cm)

(46.0 cm) Depth 18.0 in. 30 lbs. (13.6 kg) Weight



TERAK is a registered trademark of TERAK CORPORATION. All information, specifications and related data were correct when approved for printing. TERAK reserves the right to make changes without prior notice and without incurring obligations.