

The 8510 Data Processor is a disk based computer system designed by Terak for use with the 8510/b Monochrome and 8600/b Color Graphics Computer Systems. In the 8510/b Computer System, the 8510 performs all data processing and display functions. In the 8600/b System, the 8510 performs the data processing and is complemented by the color display processor (model 8600) which, under software control, assumes responsibility for graphics display and terminal functions.

The 8510 is totally self-contained and includes:

#### Microcomputer

- Standard: DEC LSI-11/2, EIS/FIS. 64K Bytes of MOS RAM memory, floating point arithmetic, 16-bit processor.
- Optional: DEC LSI-11/23, Memory Management Unit (MMU) with up to 256K Bytes of MOS RAM memory, Floating Point arithmetic Processor (FPP), 16-bit processor.

#### Disk Drive and Controller (see disk drive support)

- Standard: Two quad density (two-sided double density) disk drives in the 8510 enclosure for a total of 2.4 Mbytes of storage.

#### Power Supply

- Switching type, 50-60Hz, 100-120, 220-240 VAC

#### Q-Bus

- Manufactured by Terak to maintain strict DEC Q-Bus protocol

The system is further enhanced by a Terak universal quad serial interface that allows the use of up to four peripherals requiring RS-232-C signal levels at any of 14 software selectable baud rates from 50 to 19,200. An optional second quad serial interface can be added for a total of eight. An optional parallel interface is also available.

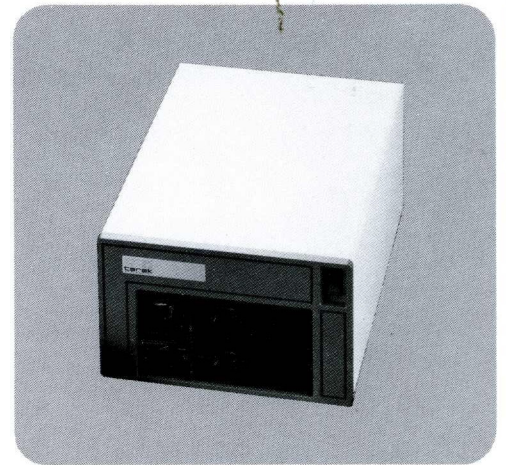
#### DISK DRIVE SUPPORT

The standard 8510 data processor contains an integral controller and two disk drives that support quad density flexible disks.

A model 8510 can read and write single, dual or quad densities of the flexible disk. The disk controller/disk drive combination determines the density of the diskette from the diskette itself. No explicit directives concerning the media density are needed from the operator.

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## GRAPHICS COMPUTER SYSTEM



## HARDWARE MODEL 8510

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## DATA PROCESSOR

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Terak Corporation  
14151 North 76th Street  
Scottsdale, Arizona 85260  
602/998-4800

## SPECIFICATIONS

Processor	
Type	DEC LSI-11/2 (EIS/FIS) or Optional DEC LSI-11/23 (MMU/EIS/FPP)
Word Length	16-bit
Memory Access	Direct (DMA)
Clock (50/60Hz)	Real time interrupt
Operand Length	Variable word
Instruction Length	1, 2 or 3 word
Hardware	Multiply, divide, floating point arithmetic
Addressing Modes	8
Registers	8 (general purpose)
Memory	
Type	16-bit MOS RAM (dynamic), read-write
Size	LSI-11/2 64K Bytes LSI-11/23 128K Bytes, expandable to 256K Bytes
Disk Storage	
Type	Two (2), two-sided, double density integral flexible (floppy) disk drives, IBM 3740 com- patible format. Can read/write single density (.25 Mbytes), double density (.6 Mbytes), or quad density (1.2 Mbytes) diskettes.
Input/Output	Four (4) RS-232-C serial interface ports. Software selectable baud rates from 50 to 19,200.
Power Supply	50-60Hz; 100-120, 220-240 VAC
Physical Dimensions	
Width	12.2 inches (31 cm)
Height	7.5 inches (19 cm)
Depth	18.0 inches (46 cm)
Weight	45.5 pounds (20.6 Kg) (one drive)

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and Q-Bus are trademarks of Digital Equipment  
Corporation.

The logo for Terak Corporation, featuring the word "terak" in a stylized, lowercase, blue font. The letter "k" is uniquely designed with three horizontal lines extending to the right from its top bar.

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