



DATAPPOINT 1100

Ideal for remote batch and intelligent terminal applications, the Datapoint 1100 is an integrated system composed of a keyboard, a CRT screen, two cassette tape decks, and an 8K byte mini computer. Available peripherals offered by Datapoint include a typewriter quality 30 to 60 cps printer, asynchronous and synchronous communications adaptors, and an 8 channel multiplexor. The Datapoint 1100 used as a **remote batch terminal** is enhanced by a series of emulators for the IBM 2780, DCT 2000, UT 200 and other programmable disciplines. The 1100 used as an **intelligent terminal** provides a powerful data entry facility via the DATAFORM editor, forms generator and data entry package. Delivery of Datapoint 1100's will begin January, 1974.


Datapoint

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General Specifications

- processor
- 4K or 8K memory
- dual cassette drive
- display

Processor

- 50 different instruction types
- 14 addressable registers
- 16 deep pushdown stack
- 8 bit memory word length
- up to 8,192 word memory
- complete parallel I/O system
- automatic power-up restart
- hardware interrupt

Memory

The basic memory of the Datapoint 1100 is 4,096 eight-bit words of memory. An additional module of 4,096 words may be incorporated with the maximum memory capacity being 8,192 words. The Datapoint 1100 memory is a random access MOS memory with an access time of 3.2 microseconds. Each memory cycle takes 1.6 microseconds and each instruction takes 2, 3, or 4 cycles to complete. Due to the random access nature of the memory, the time required to read or write memory is the same regardless of the address.

Pushdown Stack

A unique feature of the Datapoint processor is the incorporation of a "pushdown stack" into the processor's structure. This is useful for subroutine calling as it saves the address of the location following a CALL instruction which can be entered upon completion of subroutine execution by the RETURN instruction. The stack can also be used for storage of addresses for future reference.

Interrupts

Included in the Datapoint 1100 processor is a hardware interrupt feature. The interrupt signal occurs at a one millisecond rate. This one millisecond rate is accurate to within $\pm 0.05\%$.

CRT Display

- 7" x 3½" viewing area
- 960 characters
- 1,280 character per second display rate
- 80 horizontal by 12 vertical format
- 4/32" x 3/32" character size
- entire 94 character ASCII set
- 60 frames per second refresh rate (50 frames per second when using 50 cycle power)
- 5 x 7 matrix character generation
- 5 x 7 solid, blinking cursor, alternates with character, nondestructive
- P31 green phosphor
- single control line erasure, frame erasure, and page roll-up
- direct control of all CRT functions by the 1100 processor, providing tab, editing, form control, etc.

Cassette Tape Decks

- 47 characters per inch density
- forward-reverse operation
- processor controlled data transfer, direction control, and high-speed rewind.

Keyboard

The integral keyboard provides a basic 41 key alphanumeric key group, an 11 key numeric group and five system control keys. The keyboard provides a unique multi-key (n-key) roll-over characteristic providing maximum ease of typing. Transfer of characters from the keyboard is under control of the 1100 processor. An audible click providing an acoustical feedback to the typist is available under processor control. A programmable audio "beep" is also provided when it is necessary to gain a typist's attention.

Physical Characteristics

- 115 v.a.c., 60 cycle, 180 watts, power input (50 cycle optional)
- 47 pounds weight
- 9 5/8" high, 18½" wide, by 19 5/8" deep outside dimensions
- 0° to 50° C (32° to 122° F), 10 to 90 percent relative humidity operation environment.