

Price List

PROGRAMMED DATA PROCESSOR-1

June 1, 1964

STANDARD PDP-1 COMPUTER

Central Processor

Alphanumeric On-Line Typewriter

400 cps Perforated Tape Reader

63 cps Perforated Tape Punch

Automatic Multiply and Divide

One Channel Sequence Break

With 4,096-word Core Memory

\$100,000

With 8,192-word Core Memory

\$120,000

With 16,384-word Core Memory

\$140,000

With 24,576-word Core Memory

\$180,000

With 32,768-word Core Memory

\$200,000

Central Processor Options

HIGH SPEED CHANNEL CONTROL

TYPE 19

Permits block data transfer at rates up to 200,000 18-bit words per second.

\$ 9,000

HIGH SPEED DATA CONTROL

TYPE 131

Transfers data in blocks between PDP-1 and external devices.

\$ 10,500

MULTIPLE CHANNEL SEQUENCE BREAK SYSTEM

TYPE 120

Provides 16 automatic, independent, priority sequenced interrupt channels.

\$ 15,300

Input-Output Options

PARALLEL MAGNETIC DRUM SYSTEM

TYPE 23B

A parallel transfer system containing 32 fields of 19 tracks 4,096 bits per track for a total storage capacity of 131,072 words. Transfers of from 1 to 4,096 can be carried out at a rate of one word in 8.4 microseconds.

\$ 73,400

SERIAL MAGNETIC DRUM SYSTEM

TYPE 24

Serial transfer system which stores and transfers 19-bit words in blocks of 256 words at a rate of approximately 61 microseconds per word.

Type 24E 32,768 words

\$ 36,200

Type 24F 65,536 words

\$ 38,680

Type 24G 131,072 words

\$ 43,400

PRECISION CRT DISPLAY

TYPE 30

Plots data point by point at a 50 microsecond rate on a 16-inch cathode ray tube. Separately variable 10-bit X and Y coordinates.

\$ 14,300

ULTRA PRECISION CRT DISPLAY
TYPE 31

Plots data point by point on a 5-inch cathode ray tube with high degree of resolution, accuracy and stability. Suitable for precision photographic recording of display data or scanning of photographic negatives. Includes mounting bezel for camera or photomultiplier.

\$ 41,200

PRECISION INCREMENTAL CRT DISPLAY
TYPE 340

Plots points, lines, vectors, and characters on a 9 3/8 inch square raster of 1,024 points along each axis. 1 1/2 microseconds is required per point in vector, increment, and character modes. Random point plotting rate of 35 microseconds. Special channel required.

\$ 28,600*

OSCILLOSCOPE DISPLAY
TYPE 34

Plots data point by point on an X-Y plotting scope such as the Tektronix Model RM 503. Ten bits per axis.

Control only	\$ 3,060
With oscilloscope	\$ 3,900

SYMBOL GENERATOR
TYPE 33

Plots symbols on a 35-dot (5-7) matrix in one of four sizes on the Type 30A or 30D Display. Average plotting time: 140 microseconds.

\$ 4,900

HIGH SPEED LIGHT PEN
TYPE 370

Uses fiber optic light pipe and photomultiplier system for fast detection of information displayed on Type 340 Displays.

\$ 1,625

CARD PUNCH CONTROL
TYPE 40

Controls on-line buffered operation of standard card punch equipment. Maximum speed is 100 cards per minute. Buffer holds one 80-bit row. Any or all positions may be punched, in IBM or any format.

\$ 15,000

CARD READER AND CONTROL
TYPE 421A

Reads standard punched cards at rates of up to 200 cards per minute. Cards are read optically, column by column, in binary or alphanumeric modes.

\$ 14,900

CARD READER AND CONTROL
TYPE 421B

Reads standard punched cards at rates of up to 800 cards per minute.

\$ 26,000

*Does not include character mode, or special channel

PROGRAMMED MAGNETIC TAPE CONTROL
TYPE 51

Transfers information one character at a time, choice of format. All transfer operations are performed by stored routine. \$ 7,500

MAGNETIC TAPE TRANSPORT
TYPE 50

Reads and writes IBM formats at transfer rate of 15,000 cps. \$ 18,000

AUTOMATIC MAGNETIC TAPE CONTROL
TYPE 510

Transfers data blocks between the computer and high-density tape transports in systems containing the Type 131 High Speed Data Control and Type 19 High Speed Channel Control. Up to 8 transports, IBM 729 or Digital Type 570, can be operated by the Type 510. \$ 21,200

MAGNETIC TAPE TRANSPORT
TYPE 570

Reads and writes IBM data formats with a recording density of 200 or 556 (7-bit) characters per inch. Tape speed is 75 or 112.5 inches per second with transfer rates from 15 to 62.5 KC. \$ 30,400

DUAL MICRO TAPE SYSTEM

Provides a fixed address magnetic tape facility for high speed loading, readout and program updating.

Type 555 Dual Transport (includes two independent tape drives) \$ 7,400

Type 550 Control Unit (controls up to eight Type 555 Tape Transports) \$ 9,400

Printers

AUTOMATIC LINE PRINTER AND CONTROL
TYPE 64

Prints 300 lines per minute, 120 columns per line, any one of 64 characters per column. \$ 28,900

PRINTER-KEYBOARD AND CONTROL
TYPE 65

10 cps Input/Output Teleprinter. Provides for simplified expansion of additional teleprinters. \$ 5,000

Analog-to-Digital Equipment

GENERAL PURPOSE ANALOG-TO-DIGITAL CONVERTER
TYPE 138

Transforms an analog voltage to a binary number selectable from 6 to 11 bits. \$ 5,000

GENERAL PURPOSE MULTIPLEXER AND CONTROL
TYPE 139

Permits up to 64 channels of analog information to be applied singly to the input of the Type 138. Channels can be selected in sequence or by individual address. Requires Type 1578 Multiplexer Switches. \$ 3,600

MULTIPLEXER SWITCHES
TYPE 15780

Module containing four independent floating switches. \$ 333

HIGH SPEED ANALOG-TO-DIGITAL CONVERTER
TYPE 142

Transforms an analog voltage to a signed, 10-bit binary number in 5 microseconds.
Conversion accuracy is $\pm 0.15\% \pm 1/2$ least significant bit. \$ 16,400

In-Out Connections and Controls

18-BIT OUTPUT RELAY BUFFER
TYPE 140

Eighteen (SPDT) Relays actuated by computer command. Includes 18-bit buffer. \$ 1,950

18-BIT REAL TIME CLOCK
TYPE 152

Counts according to frequency of a crystal-controlled oscillator. Counter contents can be cleared or read into the processor at any time. Counter overflow causes a sequence break. \$ 4,200

ADDITIONAL ON-LINE TYPEWRITER \$ 7,700

Incremental Plotters and Controls

GRAPH PLOTTER AND CONTROL

For Cal-Comp Model 560. 12-inch; 12,000 steps per minute. \$ 7,300

GRAPH PLOTTER AND CONTROL

For Cal-Comp Model 565. 12-inch; 18,000 steps per minute. \$ 8,900

GRAPH PLOTTER AND CONTROL

For Cal-Comp Model 563. 29-inch; 12,000 steps per minute. \$ 13,400

Additional Off Line Equipment

SPARE TYPEWRITER \$ 2,800

SPARE TAPE READER \$ 3,300

SPARE TAPE PUNCH \$ 1,050

OFF-LINE PERFORATED TAPE PREPARATION UNIT

Model FIO-DEC \$ 5,000

Prices quoted are effective June 1, 1964, FOB Maynard, Massachusetts, and apply in the continental United States only. Federal, state or local taxes are not included. Option prices are for factory installation; field installation prices will be quoted on request. Quantity prices quoted on request. All prices are subject to change without notice.

DIGITAL EQUIPMENT CORPORATION • MAYNARD, MASSACHUSETTS