# Datapoint Equipment Directory Index

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THE DATAPoint PROCESSORS

To meet the needs of complex, cost-effective dispersed data processing systems, Datapoint offers four processors.

Datapoint Cassette 1100 Intelligent Terminal
Datapoint Diskette 1100 Intelligent Terminal
Datapoint 2200 Business Processor
Datapoint 5500 Advanced Business Processor

Each of these processors is housed in the attractive operator-oriented housing that has become the symbol of dispersed data processing. With the exception of the Diskette 1100 which has no cassette tapes, one processor appears physically like another. This family resemblance creates a uniform appearance in systems where all four processors might be applied thus saving operator retraining and system documentation.

An overall philosophy that "A computer need not look like a computer" has been used in designing the Datapoint line. The easy-to-use display and keyboard replaces the conventional lamps and switches operators console that is common to most computers. This clean design permits the processors to be easily integrated into an office data entry environment or used as a business computer where the display and keyboard becomes an operators console.

Each of the processors will accommodate a wide range of peripherals ranging from printers and storage devices such as magnetic tapes and disks, to a variety of communications devices. Each peripheral is designed to plug directly into the processor by a simple one cable interconnection.

Unlike many conventional small computers, the Datapoint processors and peripherals are well-suited for most standard office environments with only minimal air-conditioning and power considerations. Their outward appearance of an office machine permits easy training and acceptance by non-computer oriented office personnel.

It's this unlimited versatility and flexibility of the Datapoint processors that has made them the standard in dispersed data processing.

Inside the DATAPoint processors
CASSETTE 1100 INTELLIGENT TERMINAL

For systems where cassettes are desired for data storage, the Cassette 1100 finds wide application. It uses standard Phillips-type cassettes for both program and data storage on reliable, time proven, dual cassette drives. The inexpensive cassettes are easily handled and stored by office personnel unfamiliar with data processing equipment. Each cassette will store approximately 250,000 characters (using both sides). The amount of data stored will depend on the record length.

This cassette-based 1100 will also find application where equipment space is at a premium. No other support devices are necessary other than the communications adaptor, if used, and the system may be easily operated in a desk-top location.

Memory for the Cassette 1100 may be 4 or 8K of solid-state memory. Automatic program re-loading will occur if a power outage occurs. (See section on Cassette Tapes under General Features).

The Cassette 1100 will accommodate several peripherals. These include any of the Datapoint printers, any Datapoint communications adaptor and the Datapoint card reader.

---

Functional Characteristics

Processor:
The integral processor provides all control functions and includes:
- 50 different instruction types;
- 14 addressable registers;
- 16 deep-pushdown stack;
- 8 bit memory word length;
- Complete parallel I/O system;
- Automatic power-up restart.

Keyboard:
Standard typewriter, 41 keys
11 Key Numeric Pad
5 control Keys
Audio Tones

Video Display:
7x3.5" Viewing Area
80 Columns by 12 Rows, 960 Characters
Upper and Lower Case
(94 ASCII Characters)
5x7 Dot Matrix for High Readability

Cassette Tapes:
Standard Phillips Cassettes
7.5 inches per second speed
Rewind
Search Forward and Reverse Mode
Approximately 120,000 Characters Storage per tape side
Completely Processor Controlled

---

Memory:
4,096 to 8,192 word memory
(8 bit word)
1.6 microsecond access
All memory fully programmable

Physical Characteristics

Weight: 47 lbs. (21.3 kilos)
Height: 9" inches (24.5cm)
Width: 18½ inches (47 cm)
Depth: 19½ inches (49.9 cm)
Power: 115 VAC, 60 or 50 Hz or 230 VAC
Environment: 32° to 122°F
(0° to 50°C)
0 to 90% relative humidity

Model Codes:
1101 Datapoint 1100, 4K Memory, 115 VAC, 50-60 Hz
1102 Datapoint 1100, 4K memory, 230 VAC, 50-60 Hz
1110 4K Memory Expansion for 1101, 1102
DISKETTE 1100 INTELLIGENT TERMINAL

Designed specifically for remote data entry and processing with subsequent communications to a control site, the Diskette 1100 combines the features of a processor-based terminal with the speed and flexibility of the diskette storage media. The Diskette 1100 contains a fully programmable general purpose computer, which can be used with a variety of data entry programs. The keyboard and display provide a convenient and rapid means of data entry. The display of the Diskette 1100 features a program loadable memory. Special characters can be software-generated and displayed in addition to the standard upper and lower case character set.

The diskette is an integral component of the processor as there are no cassette tape decks. Both programs and data reside on the diskette. A boot-strap loader is provided in the processor such that a touch of a key will automatically load and begin execution of the data entry program, operating system or whatever task has been assigned.

Communications are easily accommodated. Any of the standard asynchronous or synchronous communications adaptors can be used with the Diskette 1100.

---

Functional Characteristics

**Processor:**
- A completely programmable general purpose computer with solid state memory.
- 50 Instructions
- 14 Addressable Registers
- 16 Deep Pushdown Stack
- 8 Bit Word Length
- Completely Parallel I/O System
- Automatic Power-Up Restart

**Keyboard:**
- Standard typewriter, 41 keys
- 11 Key Numeric Pad
- 5 Control Keys
- Audio Tones

**Video Display:**
- Programmable Character Generator
- 128 characters
- 7x3.5 Viewing Area
- 80 Columns by 12 Rows, 960 Characters
- 5x7 Dot Matrix for High Readability
- High Speed Character Display

**Diskettes:**
- Up to four drives
- 256,256 characters/drive
- Average latency: 83 milliseconds
- Completely processor controlled
- *See Diskette listing in the catalog for detailed specifications

**Memory:**
- Solid-State MOS 16,384 word memory
  (8 bit word)
- 1.6 microsecond access
- All memory is fully programmable

---

Physical Characteristics

**Power Requirements**
- 115 or 220 VAC, 60 or 50 Hz

**Equipment Dimensions:**
- Width: 53.0 in. (134.6 cm)
- Height: 28.0 in. (71.1 cm)
- Depth: 24.0 in. (60.9cm)
- Weight: 247 lbs. (112 kg)

**Environment**
- Environment: 32° to 122° F
  (0° to 50° C)
- 0 to 90% relative humidity

**Model Codes:**
- 1103 Diskette 1100, 16 memory, 115 VAC, 50-60 Hz, one diskette drive
- 1104 Diskette 1100, 16K memory, 230 VAC, 50-60 Hz, one diskette drive
- 9386 Diskette extension drive (3 max)
Datapoint 2200 Business Processor

The Datapoint 2200 is the general purpose processor of the Datapoint line. It's power and flexibility permit it to serve as the central computer for the sophisticated DATASHARE system, yet it is inexpensive enough to be applied as an stand-alone intelligent data entry terminal.

The 2200 system contains a powerful general purpose computer designed to meet the fast-paced needs of growing companies. Its processor architecture takes advantage of the latest in integrated circuitry. This utilization of technology allows a completely programmable multi-register computer with pushdown stack, interrupts and selectable execution mode (two identical sets of program registers), to be contained in a compact housing.

The 2200 will accommodate up to 16,384 bytes (8-bits) of memory. This fast, solid-state memory is incremented in 4K blocks such that the user need request only the amount necessary for the application. 4, 8, 12 & 16K sizes are available. All memory is user-programmable. None is taken for system buffers or hardware needs.

The 2200 is supplied with a keyboard, display and dual cassette drives. These devices operate as peripherals to the 2200. The keyboard & display replace the traditional and awkward programmer's console found on most business computers. This configuration also makes an efficient data entry operator's console. The cassettes are used for program and data storage. Any Datapoint peripheral may be connected to the 2200 with 14 external peripherals being the maximum number.

The 2200 is available in two models, one for 115 VAC, 50-60 Hz service and another for 230 VAC, 50-60 Hz service.

---

### Functional Characteristics

**PROCESSOR:**
The integral processor provides all control functions and includes:
- 50 different instruction types;
- 14 addressable registers;
- 16 deep-pushdown stack;
- 8 bit memory word length;
- Up to 16,384 word memory;
- Complete parallel I/O system;
- Automatic power-up start.

**Keyboard:**
- Standard typewriter, 41 keys
- 11 Key Numeric Pad
- 5 control Keys
- Audio Tones

**Video Display:**
- 7x3.5" Viewing Area
- 80 Columns by 12 Rows, 960 Characters
- Upper and Lower Case
  - (94 ASCII Characters)
- 5x7 Dot Matrix for High Readability

**Cassette Tapes:**
- Standard Philips Cassettes
- 7.5 inches per second speed
- Rewind
- Search Forward and Reverse Mode
- Approximately 120,000 Characters Storage per tape side
- Completely Processor Controlled

**Memory:**
- 4,096 to 16,384 word memory
- (8 bit word)
- 1.6 microsecond access
- All memory fully programmable

### Physical Characteristics

**Weight:** 47 lbs. (21.3kg)
**Height:** 9½ inches (24.5cm)
**Width:** 18½ inches (47cm)
**Depth:** 19¼ inches (50cm)
**Power:** 115 VAC, 60 to 50 Hz or 230 VAC, 50 or 60 Hz
**Environment:** 32° to 122°F (0° to 50°C)
**Relative Humidity:** 0 to 90% relative humidity

### Model Codes

- 2221 Datapoint 2200, 4K Memory, 115 VAC, 50-60 Hz
- 2222 Datapoint 2200, 4K Memory, 230 VAC, 50-60 Hz
- 2230 4K Memory Expansion for 2221, 2222
Datapoint 5500 Advanced Business Processor

The Datapoint 5500 system represents the most powerful processor in the Datapoint line. Designed to provide the user with a compact and powerful processing facility, the 5500 rivals many mid-size business computer systems in terms of processing speed and facilities. The 5500 system offers users a practical alternative to a traditional central computer or can be used to offer more power to a dispersed processing system. Its abilities range from rapid execution of compiler languages such as RPG II to providing processing power for a multi-terminal Datashare system.

The instruction set for the 5500 system contains all instructions used in the Datapoint 1100 and 2200 systems providing complete upward programming and input-output compatibility. In addition, the 5501/5502 processors provide:

- higher operating speed
- double precision arithmetic
- string arithmetic, moves, logic, etc.
- multiple-byte I/O transfers
- indexing and basing
- state saving and restoring instructions
- privileged instructions
- segmented and protected memory
- Memory and I/O parity
- additional registers

### Functional Characteristics

**Processor:**
- 2 sets of 8, 8-bit program accessible registers
- 16 Deep Pushdown Stack
- Special 4-bit instruction modification register
- Multi-byte (string) instructions
- Address manipulation instructions
- High-Speed parallel I/O system
- Block transfer instructions

**Keyboard:**
- Standard typewriter, 41 keys
- 11 Key Numeric Pad
- 5 control Keys
- Audio Tones

**Video Display:**
- 7x3.5" Viewing Area
- 80 Columns by 12 Rows, 960 Characters
- Upper and Lower Case plus special characters
- 5x7 Dot Matrix for High Readability
- Programmable display memory allows generation of 128 characters under program control.
- High Speed character display

**Cassette Tapes:**
- Standard Philips Cassettes
- 7.5 inches per second speed
- Rewind

The Models 5501 and 5502 processors provide the basic processor functions for this system and both include a keyboard, display, dual cassette decks, and 24,576 bytes of user program memory space in addition to the resident system memory. User program memory space may be expanded within the basic machine in increments of 12,288 bytes (with Model 5510 Memory Expansion Units) up to 49,152 bytes. The models 5501 and 5502 have identical specifications, except for power requirements.

**Search Forward and Reverse Mode**
- Approximately 120,000 Characters Storage per tape side
- Completely Processor Controlled

**Memory:**
- 16K Reserved for system memory
- 48K User memory, maximum
- Parity checking
- Parity bit
- Memory allocation
- Memory protection

**Physical Characteristics**
- Weight: 47 lbs. (21.3 kg)
- Height: 9% inches (24.5cm)
- Width: 18½ inches (47cm)
- Depth: 19% inches (49.8cm)
- Power: 115 or 230 VAC, 50-60 Hz (optional),
- Environment: 32° to 122°F (0° to 50°C)
- 0 to 90% relative humidity

**Model Codes:**
- 5501 Datapoint 5500 with Cassettes, 24K User Memory, 115 VAC, 50-60 Hz
- 5502 Datapoint 5500 with Cassettes, 24K User Memory, 230 VAC, 50-60 Hz
- 5510 12K Memory Expansion
General Datapoint Processor Features

Many components of the Datapoint processors have common specifications. These components, the video display, keyboard and cassette tape drives are all peripherals to the processor and have technical features that will be useful to the systems planner.

Keyboard:
The integral keyboard provides a basic 55 key typewriter-format alphanumeric key group, an 11 key numeric group and five system control keys. This arrangement provides operators with the familiar typewriter layout for data entry and system commands with the numeric pad used for high-speed entry of pure numeric material.

DataPoint keyboards are extremely rugged and designed for constant heavy usage. The keystroke impact is transmitted to a steel plate, not the electronic circuit board as is common in most keyboards. The electronic portion of the keyboard 'floats', thus protecting it from the normal shocks of usage.

For users with special control key requirements, the 11-key numeric pad can be jumper-modified to produce control characters. Specially engraved keytops are also available by request.

Two status keys in the 5-key control group are used to provide a means of generating control commands. Generally, user programs use the combination of one or both status keys plus an alphanumeric key to provide control.

The keyboard section also generates an audio beep and click sound which, at the programmers option, may be used to indicate errors and valid data.

To accommodate rapid entry of data, all DataPoint keyboards, (including the 3000 series of interactive terminals) have "all-key" rollover. This feature allows the typist to leave previously typed keys depressed while another key is pressed, preventing momentary keyboard "lockout" common with keyboards lacking this feature.

Video Display:
This display presents a non-glare, easily viewed green-on black viewing surface that is comfortable to view even after extended operating periods. Fatigue is lessened by DataPoint's exclusive helicann-scan display technique in which characters are generated in a stable, jitter-free manner with crisp, clear dots forming each character. This technique has been proven to be the least operator fatiguing display method.

The display offers the 96 character (upper & lower case) ASCII set on a 7" x 3½" viewing area. Data can be written on any portion of the 80 column by 12 line format. The cursor is positionable under program control and can be made to turn on or off. Blinking is automatic.

Under program control, the display can roll-up, erase single characters, lines, or an entire frame. Data placement is under program control.

Refresh of the display screen is automatic. A display buffer receives characters from the processor. Once the position and characters are defined, no further attention from the processor is required.

For applications requiring fast-screen display and non-standard character sets, a high speed display option is available (Standard on Diskette 1100 and 5500 systems). This option permits extremely fast screen writing capability due to the incorporation of faster display memory.

This feature also permits program loading of a 128 character set. Thus a user may elect to use the standard 96 ASCII upper and lower case set plus an addition 32 characters for special symbols or the characters of a languages not available in ASCII, such as European languages. Graphic symbols such as arrows and figures may also be generated, the limit only being restricted to the 5x7 dot format.

Cassette Tapes
The cassette tapes used on the Datapoint processors are designed specifically for constant usage with extremely low error rates. These decks have no operator controls other than the tape insert bar. All other operations are controlled by the Datapoint Processor. These include read forward, reverse and rewind.

The decks utilize standard Phillips-type cassettes containing a special computer-grade tape. Tabs may be removed from the cassette to effect write-protect and auto restart (Rear deck only).

Auto-restart offers complete protection in the event of power failure. With the appropriate cassette tab removed, the Datapoint will automatically rewind and reload the back tape which normally contains the system program. This feature proves important to users contemplating unattended polling operations. If during waiting hours, the main line power fails or is momentarily interrupted (not uncommon during evening and early morning hours) the solid state memory is erased. When power returns completely the rear tape is rewound and automatically loads the operating program which, by program control, may call in other programs. This feature eliminates an annoyance that is common to all processors using a solid-state memory and yields unattended operation where power is frequently interrupted.
**Datapoint Servo Printer**

The Servo Printer contains a variety of highly desirable data processing features not usually found in one printer. The heart of the printer is a servo-driven, rosette shaped, type wheel made of flexible plastic. This type wheel is positioned according to the character desired and struck by a small electric hammer against a cloth or carbon ribbon.

This straightforward construction results in a heavy-duty printer that runs much quieter than a standard office typewriter and has few moving parts. Print quality equals or surpasses most standard typewriters and the type wheels can be easily changed to accommodate a variety of upper and lower case fonts.

Print speed is 30 characters/second although the printer’s production rate can be much higher than conventional 30 cps printers due to an ability to shuttle or “slew” across blank areas. The 30 cps rate applies to solid text as the print mechanism can move at 30 inches per second over blank areas. Using this print and slew technique, the Servo Printer can match conventional printers with higher print speed ratings. Either friction or sprocket feed can be used.

Most data processing printers can only move one character space to the right or left. The Servo Printer can space as little as 1/60 inch per space giving the user an ability to justify text by inserting fractions of character spaces at appropriate intervals. The printer may also be instructed to feed paper forward or reverse. Users requiring a dot-plotting graphic function will find this feature useful.

While the rugged, simple construction of the Servo Printer allows constant use in standard data processing work, the exceptional print quality will permit the user to apply this device to tasks usually requiring a typewriter style printer such as text-processing and letter-typing.

The Servo Printer plugs directly into the Datapoint processors with no additional equipment required. Multiple printers may be used.

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### Functional Characteristics

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<thead>
<tr>
<th>Printing Speed</th>
<th>30 CPS (asynchronous)</th>
</tr>
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<tr>
<td>Printing Method</td>
<td>Impact, Rotating Printwheel</td>
</tr>
<tr>
<td>Carriage Slew Rate</td>
<td>30 inches per second</td>
</tr>
<tr>
<td>Paper Skipping Rate</td>
<td>24 lines per second</td>
</tr>
<tr>
<td>Print Positions per Line</td>
<td>132 (with 10 char. per inch)</td>
</tr>
<tr>
<td>Paper Type</td>
<td>Capable of handling tractor feed forms (max 14.875&quot;) or ordinary typewriter paper.</td>
</tr>
<tr>
<td>Format Control</td>
<td>Line Feed Key, Form Feed Key, Platen Knob for forms adjustment, Forms Thickness adjustment</td>
</tr>
</tbody>
</table>

### Character Font

Three printwheels available:
- Courier 10
- Pica
- Elite

### Interconnection

Direct connection to Datapoint I/O bus

### Physical Characteristics

<table>
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<th>Dimensions</th>
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<td>9250, 9254</td>
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<tr>
<td>Width: 53 inches (134.6cm)</td>
</tr>
<tr>
<td>Height: 37 inches (94cm)</td>
</tr>
<tr>
<td>Depth: 37 inches (94 cm)</td>
</tr>
<tr>
<td>Weight: 215 lbs. (97.5kg)</td>
</tr>
<tr>
<td>9251, 9255</td>
</tr>
<tr>
<td>Width: 36 inches (91.5cm)</td>
</tr>
<tr>
<td>Height: 37 inches (94cm)</td>
</tr>
<tr>
<td>Depth: 37 inches (94cm)</td>
</tr>
<tr>
<td>Weight: 195 lbs. (89kg)</td>
</tr>
</tbody>
</table>

### Power Requirements

- 115 VAC, 60 Cycle
- 230 VAC, 50 Cycle

### Model Codes

- 9250 Servo Printer, Console, 115 VAC
- 9251 Servo Printer, Freestanding, 115 VAC
- 9253 12 Inch Form option
- 9254 Servo Printer, Console, 230 VAC
- 9255 Servo Printer, Freestanding, 230 VAC
- 80260 Cloth Ribbon
- 80261 Carbon Ribbon
- 80270 Courier 10 Printwheel
- 80271 Pica Printwheel
- 80272 Elite Printwheel
Matrix Printers

The 9244 and the 9245 are medium speed, serial, impact printers. The 9245 uses bi-directional printing. With the 9245, two print heads operating in unison print a 132 character line with each head traveling only half the width of the paper. Both heads then print in reverse on the next line resulting in no carriage return. The printer is automatically energized when data is received with no delay time required before printing is begun.

Various character sets are an optional feature which permit flexibility unavailable on standard full character printers. Character sets can be increased up to 128 characters, and the standard mode produces a line of elongated boldface characters on command. International users will appreciate the availability of foreign character sets.

Applications for this printer are many - including data entry, business systems, communications - anywhere, in fact, where high-speed hard copy output is demanded.

The printer interfaces directly with all Datapoint processors and is fully buffered.

Functional Characteristics:

Interconnection
Direct connection to Datapoint processors I/O bus

Physical Characteristics

9244/9245
Width: 27¾ in. (70.5cm)
Height: 11½ in. (29.2cm)
Depth: 20 in. (50.8cm)
Weight: 118 lbs. (54kg)

9246
Table - 9246
Width: 19¾ in. (50.2cm)
Height: 25 in. (63.5cm)
Depth: 17¼ in. (44cm)
Weight: 52 lbs. (28kg)

Model Codes
9244  60 LPM Printer
9245  125 LPM Printer
9246  Table for 9244 & 9245

Print Speed of 9244
60 lines per minute
165 characters per second

Print Speed of 9245
125 lines per minute
330 characters per second

Printing Method
Impact, character-by-character, one line at a time

Paper Type
Sprocket feed, adjustable from 4" to 14¾" width. Standard sprocketed paper

Format Control
On/off
Select
Top of Form
Forms override
Line Feed

Character Font
9x7 dot matrix - 10 point
type equivalent
USASCII - 64 characters printed,
lower case characters
recognized and printed as
upper case equivalent
Datapoint 300 LPM Line Printer

The Datapoint 9280 Line Printer provides the user with high-quality, medium-speed printing in a compact and operator-oriented package. It finds wide application with all Datapoint processors requiring crisp, clear, hard copy.

This printer operates at a rate of 300 lines per minute on a 132 column format using 64 characters. The drum and anvil impact method of printing utilized yields excellent reproduction on either single sheets or 6 part carbon-interleaved multipart forms. Standard 132 column or narrower forms can be loaded on the printer.

Designed specifically for ease of operation, the controls are plainly marked and kept to a minimum. Paper and ribbon changes are accomplished by swinging aside the hinged paper gate. Use of a single set of paper feed sprockets keeps paper changing time to a minimum. Noise is kept to a very low level by liberal use of acoustical material in the enclosure.

For users printing on other than standard 11 inch paper a 12 channel vertical format control is available. This feature easily accommodates odd-size forms such as parts tags and checks.

A number of unique printing techniques combine to provide a rugged and reliable impact mechanism. A magnetic print-head and clutchless paper feed reduce the number of moving parts to a minimum.

The printer is fully buffered and interfaces directly to any of the Datapoint processors. Full compatibility with any Datapoint Software package printer is assured.

Functional Characteristics:

**Printing Speed:**
300 lines per minute on 132 character lines

**Printing Method:**
Impact with rotating drum.

**Slew Speed:**
20 inches/Second

**Line Spacing:**
6 or 8 Lines Per Inch, switch selectable

**Paper type:**
Standard Fan Fold. Single copy (15 lbs. bond minimum) to Multiple Copy 6 parts (12 lbs. bond with 7 lb. carbon) minimum.

**Format Control:**
Top-of-Form Command (See note)
Single line advance
Perforation step over

Character Font:
64 or 96 Character, upper case modified, ASCII, open Gothic type (DPC-A)
Characters typically .095” High x .065” Wide.

Interconnection:
Direct connection to all Datapoint processors

**Physical Characteristics:**

*Width:* 32 in. (81.8cm)
*Height:* 45 in. (114.3cm)
*Depth:* 22 in. (55.88cm)
*Weight:* 330 lbs. (149.6 kilos)

**Power Requirements:**
110 VAC or 230 VAC, 50 or 60 Hz

Model Codes:

9280
300 LPM printer
64 character font
single channel form control

9281
300 LPM Printer
96 character font
Single channel form control

9282
300 LPM Printer
64 character font
12 channel vertical form control

9283
300 LPM Printer
96 character font
12 Channel vertical form control

9284
Paper receptacle
for 9280 Series

NOTE: Single channel vertical forms control gives one top of form position on 11 inch paper. 12 channel gives twelve positions, tape controlled.
Datapoint Diskette Memory

For systems requiring fast, compact and randomly accessible data storage, the Diskette memory combines these features in an operator-oriented and economical system.

The memory utilizes IBM compatible Diskettes. These small, flexible and mailable magnetic storage devices operate in much the same manner as larger conventional data processing disks. Mounted permanently in a paper jacket, the small diskettes are easily inserted and removed from the cabinet-mounted drives at the touch of a button.

The Diskettes find wide application where a local data base is to be accessed and modified. The speed of access permits multi-file operations on a single diskette and can allow sophisticated operations such as table lookups, sorting and merging of file data along with storage of keyed-in information.

The Diskette hardware architecture is structured along the lines of the larger Datapoint Disks. Four buffers are used each corresponding to a 256 byte sector on the disk. This total buffer of 1024 bytes is randomly addressable by the processor and provides not only a convenient access to disk data, but also a powerful tool for sector manipulation.

As the four sector buffer concept is used on other large Datapoint disks, software presently utilizing a larger Datapoint disk can be used with the Diskette memory. The standard Disk Operating System (DOS) is compatible with the Diskette along with other utilities such as SORT and Index Sequential Access Method (ISAM). This compatibility among disks permits software to be used almost universally throughout the disk products. For example, a diskette system can be easily upgraded to a 2.4 megabyte cartridge disk or a system originally developed for a large disk be adapted to handle the Diskettes. With this capability, a user is often spared the cost of new software development for the Diskette.

The hardware recording techniques duplicate that of an IBM 3741 Data Entry Terminal. Software formatted diskettes are interchangeable with the IBM 3741 diskettes.

The diskette is an optional peripheral for all Datapoint processors except for the Diskette 1100 where the unit is integral with the processor.

The Diskette memory connects directly to Datapoint processors. No other device is required. Each unit houses a controller with up to four disk drives.

### Functional Characteristics

**Capacity:**
- Tracks/Disk: 77
- Sectors/Track: 26
- Bytes/Sector: 128
- Bytes/Diskette: 256,256

**Sectors per track:** Sectors are paired electrically to 13 logical sectors per track.

**Bit Density:**
- (Inside Track) 3200 bpi (approximately)

**Bit Transfer Rate:**
- 250 kilobits/second (into sector buffers)

**Diskette Timing:**
- Rotational Speed: 360 RPM
- Access Time: 10 milliseconds

**Setting time:** 20 milliseconds

**Average latency:** 83 milliseconds

**Recording mode:** Frequency Modulated, IBM 3741 compatible

**Media Requirements:**
- IBM "Diskette" or equivalent

**Media Dimensions:**
- Disk Diameter: 7.875 inches (20 cm)
- Envelope size: 8x8 inches (20.3 cm) x20.3 cm)

### Physical Characteristics

**Power Requirements:**
- 115 or 220 VAC, 50 or 60 Hz

**Equipment Dimensions:**

<table>
<thead>
<tr>
<th>Console</th>
<th>Freestanding</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width: 53.0 in. (134.6 cm)</td>
<td>36.0 in. (71.4 cm)</td>
</tr>
<tr>
<td>Height: 28.0 in. (71.1 cm)</td>
<td>28.0 (71.1 cm)</td>
</tr>
<tr>
<td>Depth: 24.0 in. (60.9 cm)</td>
<td>24.0 (60.9 cm)</td>
</tr>
<tr>
<td>Weight: 200.0 lbs. (91 kg)</td>
<td>175.0 lbs. (78 kg)</td>
</tr>
</tbody>
</table>

**Model Codes:**
- 9381 Diskette Controller, with one drive, console mounted
- 9385 Diskette Controller with one drive, Freestanding
- 9386 Diskette Extension unit
Datapoint Cartridge Disk System

A Datapoint Disk provides the user with a random-access, non-volatile, memory system. The disk is a removable cartridge-type with each cartridge containing over 2.4 million bytes (characters) of data.

The disk cartridges are fully enclosed and easily inserted and removed from the drive. By use of the replaceable disk, an almost unlimited number of programs and data files may be kept on hand and ready for immediate use. The operator need only to press the load button and the disk is automatically brought on-line.

The Datapoint 9350 Disk System can be expanded. Up to three 9354 disk drive extension units can be added making a total of four disks. The 9354 extender disks are identical in appearance to the 9350 controller and disk.

System programmers will find the disk controller offers many powerful features. The controller contains 1,024 character memory which is divided into four 256 character areas. This buffer or memory can be addressed randomly by the processor, facilitating the updating or sorting of data within a sector. All error detection and appropriate control character requirements are done automatically by the controller.

The Disk connects directly to the Datapoint processors via a standard I/O cable. No other interface is required. All Cartridge disks run on either 50 or 60 Hz, 115 VAC. A series is available for 230 VAC power, 50-60 Hz.

**Functional Characteristics**

<table>
<thead>
<tr>
<th>Capacity</th>
<th>Disk Timing</th>
<th>Operator Controls</th>
<th>Indicator Lamps</th>
<th>Interconnection</th>
</tr>
</thead>
<tbody>
<tr>
<td>Surfaces</td>
<td>Rotation Speed 1500 rpm</td>
<td>Load/Run</td>
<td>Load</td>
<td>Connects directly to a Datapoint processor.</td>
</tr>
<tr>
<td>Tracks/Surface</td>
<td>Average Latency 20 ms</td>
<td>Protect</td>
<td>Ready</td>
<td></td>
</tr>
<tr>
<td>Sectors/Track</td>
<td>Track-to-Track 15 ms Max.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bytes/Sector</td>
<td>Average Seek Time: 70 ms</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bytes/Disk (8 bits)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2,494,464</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bit Density</td>
<td>Bit Transfer Rate (to buffer)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2200 BPI</td>
<td>1562 KHz</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Track Density</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>100 TPI</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Physical Characteristics**

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>9350 Console</th>
<th>9351 Freestanding</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width:</td>
<td>53.0 in. (135cm)</td>
<td>36.0 in. (71.4cm)</td>
</tr>
<tr>
<td>Height:</td>
<td>28.0 in. (71cm)</td>
<td>28.0 in. (71cm)</td>
</tr>
<tr>
<td>Depth:</td>
<td>24.0 in. (60.9cm)</td>
<td>24.0 in. (60.9 cm)</td>
</tr>
<tr>
<td>Weight:</td>
<td>330 lbs. (150.6 kg)</td>
<td>260 lbs. (118.6 kg)</td>
</tr>
</tbody>
</table>

**Power Requirements**

115 VAC or 230 VAC, 50 or 60 Hz

**Model Codes**

9350 Console mounted controller with one removable cartridge drive unit, 115 VAC
9351 Freestanding controller with one removable cartridge drive, 115 VAC
9352 Console controller with two drive units (one console mounted and one freestanding) one fixed and one removable cartridge drive, 115 VAC
9353 Controller with two disk drive units (both disks in freestanding cabinets) one fixed and one removable cartridge drive, 115 VAC
9354 Single disk drive extension unit, with removable cartridge (free-standing), 115 VAC
9370 Same as 9350 but 230 VAC
9371 Same as 9351 but 230 VAC
9372 Same as 9352 but 230 VAC
9373 Same as 9353 but 230 VAC
Datapoint Mass Storage Disk Controller and Drive

A Datapoint 9370 is a 20 surface, removable pack disk system. It provides the user with a non-volatile, random access mass memory.

The on-line capacity is a maximum of 25 million bytes per disk drive for the 5500 system, or if the maximum of eight disk drives is attached to the controller, 200 million bytes. For the 2200 system, addressing restrictions limit the on-line capacity to 20 million bytes per drive and 2 drives per system for a maximum of 40 million bytes per system. Off line capacity is unlimited as the disk packs are removable for storage.

The controller includes a buffer memory which is divided into 16 pages of 256 bytes each, allowing the storage of 16 independent sectors of data (4096 bytes) in the controller buffer memory.

The buffer can be addressed randomly, thus facilitating the updating and sorting of small amounts of data within a sector. Data is not required to be transferred to the processor, but can be processed in the disk buffer itself, thus saving considerable time.

For error detection, a parity check is made on buffer transfers and a 16 bit CRCC (cyclic redundancy check character) check is made on disk transfers.

The 9370 Mass Storage Disk Controller is enclosed in a standard free standing cabinet. The Disk Drive is housed in a caster-supported cabinet.

### Functional Characteristics

<table>
<thead>
<tr>
<th>Characteristics</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity (each drive)</td>
<td>20</td>
</tr>
<tr>
<td>Surfaces</td>
<td>20</td>
</tr>
<tr>
<td>Tracks/Surface</td>
<td>203</td>
</tr>
<tr>
<td>Tracks/Pack</td>
<td>4,060</td>
</tr>
<tr>
<td>Sectors/Track</td>
<td>24</td>
</tr>
<tr>
<td>Sectors/Pack</td>
<td>97,440</td>
</tr>
<tr>
<td>Bytes/Sector</td>
<td>256</td>
</tr>
<tr>
<td>Bytes/Pack</td>
<td>24,944,640</td>
</tr>
</tbody>
</table>

### Timing

- Bit Transfer rate: 2.5 MHz (to and from buffer)
- Byte Transfer rate: 312.5 KHz (to and from buffer)
- Rotation: 2400 RPM
- Average Rotational latency time: 12.5 MSec
- Maximum 60 MSec
- Head Positioning: Average 35 MSec

### Physical Characteristics

<table>
<thead>
<tr>
<th>Controller</th>
<th>Disk Drive (each drive)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width: 28 in. (71cm)</td>
<td>Width: 30 in. (76.5cm)</td>
</tr>
<tr>
<td>Depth: 24 in. (61cm)</td>
<td>Depth: 24 in. (61cm)</td>
</tr>
<tr>
<td>Height: 28 in. (71cm)</td>
<td>Height: 39 in. (99cm)</td>
</tr>
<tr>
<td>Weight: 165 lbs. (75.3kg)</td>
<td>Weight: 394 lbs. (189kg)</td>
</tr>
</tbody>
</table>

### Power Requirements

- 208/230 volts, 3 phase, 4 wire, 50 or 60 Hz

### Environment

- Temperature: 60° to 90° F (15° to 32° C)
- Relative Humidity: 8 to 80%, non condensing
- Max. Rate of change for Temperature: + 15°F/hour
- Room: requires filtered circulation

### Model Codes

- 9370 Mass Storage Disk Controller & Drive, 60Hz
- 9371 Mass Storage Disk Drive Extension for 9370, 60 Hz
- 9390 Mass Storage Disk Controller & Drive, 50 Hz
- 9391 Mass Storage Disk Drive Extension for 9390, 50 Hz
**Datapoint 556 & 800 bpi Tape Systems**

7-and 9-Channel

The Datapoint 556 & 800 bpi tape systems offer the user a complete line to suit his tape storage requirements. Two models are available — 9 channel, 800 bpi, and 7 channel, 800 or 556 bpi. Either of these fully industry-compatible tapes can be console mounted with the processor or free-standing in a separate cabinet. In either case, the units connect directly to the Datapoint processor with no interfacing or other adaptors required.

The tape control unit is included in the cabinet and automatically generates vertical parity (VP), a cyclic redundancy check character (CRCC), and a longitudinal redundancy check character (LRCC). Upon reading the tape, the VP, CRCC, and LRCC are automatically regenerated and checked. A 1,057 byte buffer provides intermediate storage of characters, permitting asynchronous data transfer to and from the deck. Records can be written up to a length of 1,057 words.

---

### Functional Characteristics

- **Recording Format**
  - (Industry-Compatible)
  - 9550, 9551
    - 9-track, NRZI
    - 800 BPI
  - 9552, 9553
    - 7-track, NRZI
    - 556/800 BPI

- **Tape Speed**
  - 12.5 inches per second

- **Reel Capacity**
  - 8.5, 7 inch or mini reels of
  - ½ inch tape
  - 1200 feet length

- **Maximum Record Length**
  - 1057 bytes

- **Error Control**
  - Industry compatible
  - Fully automatic VP, LRCC, CRCC
  - Read-after-write

- **Interconnection**
  - Direct connection to Datapoint Processor
  - I/O Bus

### Physical Characteristics

- **Dimensions**
  - 9550, 9552
    - Width: 52.5 inches (133.35cm)
    - Height: 36.5 inches (92.71cm)
    - Depth: 22.7 inches (57.65cm)
    - Weight: 290 lbs. (132.3kg)
  - 9551, 9553
    - Width: 29.4 inches (74.7cm)
    - Height: 36.5 inches (92.7cm)
    - Depth: 22.7 inches (57.6cm)
    - Weight: 280 lbs. (127.76kg)

- **Power Requirements**
  - 115 VAC or 230 VAC, 50-60 Hz

- **Model Codes**
  - 9550 9-track, Console, 115 VAC
  - 9551 9-track, Freestanding, 115 VAC
  - 9552 7-track, Console, 115 VAC
  - 9553 7-track, Freestanding, 115 VAC
  - 9570 9-track, Console, 230 VAC
  - 9571 9-track, Freestanding, 230 VAC
  - 9572 7-track, Console, 230 VAC
  - 9573 7-track, Freestanding, 230 VAC
  - 80304 Tape head cleaning kit
Datapoint 1600 bpi 9-channel Magnetic Tape System

This tape memory system offers the user a means to read and write 9-track, 1600 bpi magnetic tapes in either industry compatible record lengths (18 to 2048 characters) or records of indefinite length may be written in slew mode.

A buffer provides intermediate storage for 2048 bytes, allowing asynchronous data transfer to and from the tape transport, and any location in the buffer can be read or modified by the processor through an addressable pointer system. A vertical parity bit is automatically generated. Data can be read in both forward and reverse directions.

This magnetic tape system can be housed in either a standard freestanding or console cabinet. It connects directly to a Datapoint processor with no other equipment necessary. The 9580 series operates from 115 VAC, 50-60 Hz while the 9590 series operates from 230 VAC, 50-60 Hz.

---

**Functional Characteristics:**
- **Record Format** (Industry Compatible)
  - 9-track (including parity)
  - phase encoded, ANSI Compatible
- **Tape Speed**
  - 12.5 ips.
- **Reel Capacity**
  - 8.5 inch diameter
  - ½ inch width
  - 1200 feet length
- **Maximum Record Length:**
  - 2048 bytes
  - unlimited in slew mode
- **Magnetic Head Assembly**
  - Dual Gap (read-after-write)
- **Data Transfer Time:**
  - Approx. $N + 4.1$ milliseconds
  - (Where $N$ = Number of Data Characters x 50 microseconds)
- **Interconnection**
  - I/O bus, direct connection to Datapoint processors

**Physical Characteristics**

**Power Requirements:**
- 115 VAC 50-60 Hz
- 230 VAC 50-60 Hz

**Dimensions:**
- **9580**
  - Height: 37.0 in. (94cm)
  - Width: 53.0 in. (135cm)
  - Depth: 24.0 in. (61cm)
  - Weight: 240 lbs. (110kg)
- **9581**
  - Height: 28.0 in. (71cm)
  - Width: 26.0 in. (66cm)
  - Depth: 24.0 in. (61cm)
  - Weight: 220 lbs. (101kg)

**Model Codes**
- 9580 Console, 1600 bpi System, 115 VAC
- 9590 Console, 1600 bpi System, 230 VAC
- 9581 Freestanding, 1600 bpi System, 115 VAC
- 9591 Freestanding, 1600 bpi System, 230 VAC
Datapoint Card Reader

This medium speed card reader is designed to be operated with all Datapoint processors (except Version I).

The 9504 Card Reader is extremely tolerant of bent cards or errors in punch registration (± 40% of normal) due to the inclusion of special electronics and the unique design of the transport mechanism.

An optical sensor reads the standard 80 column punched cards at a maximum continuous rate of 300 cards per minute. A 12-bit data field for each column of a card is transferred in two successive byte-transfers, a full binary image is thus transferred, with no code conversion performed by the reader. The interface contains a 64 character first-in, first-out buffer to reduce program timing constraints. The 9503 Card Reader requires only connection to any Datapoint processor to be ready for operation.

FUNCTIONAL CHARACTERISTICS

Program Commands
motor on
motor off
card feed

Device Status:
hopper check
card motion
device ready
read ready

Card Rate:
300 cpm

Card type:
80 column cards
ANSI x 3.11-1969
(no color requirements)

Capacity
input hopper 550 cards
output stacker 550 cards

Interface Requirements:
Direct connection to Datapoint processor
I/O Bus. No additional hardware is required.

PHYSICAL CHARACTERISTICS

Power Requirements
115 VAC, 50-60 Hz
230, 50-60 Hz

Dimensions:
Height: 11 inches (28cm)
Width: 19¼ inches (49cm)
Depth: 14 inches (35.5cm)
Weight: 60 lbs. (27.5kg)

Model Codes:
9504 Card Reader 50-60 Hz, 115 VAC
9524 Card Reader 50-60 Hz, 230 VAC
Datapoint Communications Adaptors

ASYNCHRONOUS

Internal data transfers in the Datapoint processors are in parallel form. Communications and many peripheral devices used in today's data processing operations require a serial start-stop data structure. The Asynchronous Communications adaptors provide this asynchronous serial data format and opens the Datapoint to many versatile applications.

The adaptors connect directly to the Datapoint processors and are completely under program control. No manual adjustments are present. Both data rate and character length can be program specified. Start and stop pulses are automatically added and subtracted from the transmitted or received data.

With the 9400 unit (no internal modem installed), a Bell Dataphone can be connected through a standard EIA cable which is supplied. The adaptors can also be connected to a wide variety of other devices which operate on asynchronous, start-stop data such as teleprinters, modems, and serial input printers.

For complete telephone communications capability, two other versions are available with Datapoint manufactured, Bell-compatible, 103 and 202 type modems. These digitally synthesized modems are located in the same box with the adaptor and allow the user to dial and answer on the standard telephone network without a handset present. All these operate under program control providing complete unattended calling and answering operations. Multidrop and polling operations can also be configured using this standard hardware. Auto-dial and auto-answer are standard features with these units. The devices interface to telephone lines via the Bell 1001 B Direct Access Arrangement.

If your system involves telegraph-line operations, a model is also available to handle neutral or polar high-level telegraph keying.

SYNCHRONOUS

A Synchronous communications format provides the Datapoint user with a highly efficient means of information transmission.

Start or stop bits are not used in synchronous transmission, therefore creating a higher data through-put than the asynchronous format. In effect, all of the data transmitted is useful information except for the control characters, which serve to direct the data flow between devices.

The synchronous adaptor connects directly to Datapoint processors with no other hardware required. The output attaches through a supplied cable to a Bell 201 Dataphone or other modem capable of handling synchronous data.

---

**General Specifications**

**ASYNCHRONOUS ADAPTOR**

**Data Rate**
37.5 to 9600 baud, programmable

**Data Length**
7-11 bit code, including start and stop programmable pulses

**Interface**
Connections directly to a Datapoint Processor I/O Bus

**Codes**
Any asynchronous

**Data Format**
Serial asynchronous, start-stop

**Physical Specifications**
(all communications adaptors)

**Power**
The Datapoint 2200 will supply power for up to two adaptors. More require auxiliary power supply.

**Mounting**
Wall, console, or stand-alone.

---

**Dimensions**
10.5 W x 15.5 H x 2.7 D (inches)
26.7 cm x 39.4 cm x 6.9 cm

**MODEL CODE 9400**
Serial Data Adaptor

**Signal**
RS232C level signal, full or half duplex

**Rate**
37.5 to 9600 baud, programmable

**Connection**
Teleprinters, Bell Dataphone®, other serial devices

---

**MODEL CODE 9401**
300 Baud Modem

**Signal**
Equivalent to Bell 103 Dataphone®

**Rate**
300 Baud (450-Baud max), full duplex

**Operations**
Auto-dial, autoanswer, direct connection

**Connection**
Bell 1001 B Direct Access Arrangement or private wire

---

**MODEL CODE 9402**
1200 Baud Modem

**Signal**
Equivalent to Bell 202 Dataphone®

**Rate**
1200 Baud (1800 Baud mix.), half duplex (full duplex using reverse channel for data)

**Operations**
Auto-dial, auto answer, connect

**Connection**
Bell 1001 B Direct Access Arrangement or private wire

---

**MODEL CODE 9403**
High Level Keyer

**Signal**
Neutral or polar, high level keyer

**Operation**
Telegraph current loop keying

**Connection**
Direct to telegraph line
The adaptor contains powerful hardware error-checking capabilities. Several formats are used with the ASCII and EBCDIC codes and the adaptor handles these within its own hardware. Polynomial, vertical redundancy (VRC), and longitudinal redundancy checking (LRCC) can all be accomplished by hardware.

For users with IBM Binary-synchronous hardware, the adaptor will also handle this discipline.

**PARALLEL INTERFACE**

Many useful data communication devices and associated peripheral equipment maintain communication linkage through parallel data transmission. Parallel transmission techniques enable these devices to transmit one word (byte) of information at a time as opposed to serial transmission techniques. In parallel communication, transmitted information is presented on a group of parallel communication wires, each wire corresponding to a single bit of the transmitted word.

The Datapoint 9420 Parallel Interface is designed to provide the most efficient and flexible parallel communication capability to the Datapoint processors. Users with applications involving interface to instrumentation will find the Parallel Interface useful for this purpose.

---

**MODEL CODE 9404**  
Synchronous Data Adaptor

**Data Format**  
Synchronous

**Data Rate**  
Rate determined by modem used.

**Codes**  
ASCII or EBCDIC (must be specified)

**Interface**  
Connects directly to Datapoint processor via I/O Bus

**Connection**  
Bell 201 series Dataphone® or other modem.

**Operations**  
Polynomial error check, VRC, LRCC

---

**MODEL CODE 9420**  
Parallel Interface

**Data Input**  
8-wire Parallel Data  
8-wire Parallel Status

**Data Output**  
8-wire Parallel Data  
8-wire Parallel Command Word  
System Reset Strobe  
Status Input Strobe  
Data Input Strobe  
External Command Strobe 1  
External Command Strobe 2  
External Command Strobe 3  
External Command Strobe 4  
Device Addressed Level

**Data Output Levels**  
All data levels can be either positive or negative logic internal jumper.

---

**Physical Description**

The 9420 consists of one printed-circuit card mounted in the standard communications adaptor housing. The 9420 circuitry consists mainly of TTL MSI logic.

A Datapoint 9420 will provide power for up to two 9420 parallel interfaces. If additional interfaces are required, auxiliary power must be supplied.

**Mounting**  
Wall, console or stand-alone
Datapoint Multiple Port Communications Adaptor

Many digital data communications systems and data processing devices utilize a start-stop asynchronous mode of communication. The Multiple Port Communications Adaptor 9460 can be used to interface a Datapoint processor with this serial form of communication. The 9640 has eight ports so that up to eight serial asynchronous channels can be interfaced to the Datapoint processor with a single external I/O device. The Multiple Port Adaptor converts the parallel I/O Bus data of the Datapoint processor into a serial form complete with start and stop bits. The serial output and input signal levels conform to the Electrical Industries Association RS-232-C specifications.

The 9460 is assigned a unique address and attaches directly to the Datapoint I/O Bus. The character length and number of stop bits are selected for each port independently via program control. The selected number of start and stop bits are then automatically added and subtracted when data is transmitted and received.

Specifications

Data Rate
Standard baud rates are 110, 300, and 1200 baud, selected by wire jumpers on printed circuit cards.

Data Length
7-11 bit code, including start and stop programmable pulses

Interface
Connects directly to Datapoint processor I/O Bus

Channels
Eight serial input/output parts.

Codes
Any asynchronous

Data Format
Serial asynchronous, start stop

Output Signal
RS-232-C compatible, full or half duplex

Connection
Serial asynchronous devices such as Bell Dataphone, Teletype, Printer, Terminal, etc.

Mounting
Wall, console, or stand-alone

Dimensions
10.5Wx18.0Hx2.7D (inches)
26.7 cm x 45.7 cm x 6.86 cm

Power
The 9460 derives its power from the I/O Bus. A total of two 9460's can be powered from the I/O Bus with additional Multiple Port Adaptors requiring auxiliary power supplies.

Model Code
9460 Multiport Communications Adaptor
9462 Multiport Communications Adaptor
+ with data set ready signal and parity check.

This adaptor connects to the Datapoint 2200 and 5500 processors and is commonly used with the Datashare system.
Datapoint Communications Power Supply Unit

The communications power supply unit is an enclosure designed to accommodate a maximum of 4 Datapoint Communications Adaptor Assemblies, interfacing to a single Datapoint Processor. Power for any permissible mix of Communications Adaptor Assemblies (including any associated Data Access Arrangements) is provided by the Communications Power Supply Unit. The enclosure can be wall or desk mounted.

This unit is used where multiple communications adaptors are required and the number to be used exceeds the power supply capability of the Datapoint processor.

Physical Characteristics

Dimensions
Height: 6.75 inches (17.1cm)
Width: 10.0 inches (25.4cm)
Depth: 18.00 inches (45.7cm)
Weight: 28 lbs. (12.71 kg)

Model Codes:
9455 Communications Power Supply Unit.

Asynchronous Communications Adaptor, CCITT interface

Used primarily in the European and other communications networks, this Asynchronous Communications Adaptor allows the Datapoint processor to be interfaced to serial asynchronous modems conforming to CCITT Recommendation V.24. In addition, the 9410 may be simultaneously used to control an automatic calling unit which conforms to the same recommendation.

The Asynchronous Communications Adaptor allows the Datapoint processor to be interfaced to serial asynchronous modems conforming to CCITT Recommendation V.24. In addition, the 9410 may be simultaneously used to control an automatic calling unit which conforms to the same recommendation.

The Communications Adaptor converts the parallel I/O bus data of the Datapoint processor into a serial format complete with start and stop bits for transmission. Incoming serial data is converted back into parallel format for input. The automatic calling unit also operates under program control.

Physical Characteristics

Dimensions
Height: 2.7 inches (6.85cm)
Width: 10.5 inches (26.7cm)
Depth: 15.5 inches (38cm)

Power:
Derived from Datapoint processor

Model Code:
9410 Asynchronous Communications Adaptor CCITT interface.
Datapoint Processor/Shelf Attachment

The 9052 shelf attachment increases the table width of a Datapoint console by ten inches. The shelf is the same depth as the table (22-11/16”). This additional work space may be attached with the provided screws to either end of any Datapoint console or stand-alone enclosure.

Technical Description

Dimensions
Width: 10 inches (25.4cm)
Depth: 22-11/16 inches (57.6cm)
Material: Plywood and Steel
Color: 2200 Brown

Model Code: 9052

Datapoint Processor/Paper Holder

The 9054 Paper Holder is designed to fasten to the front of the 2200 above the screen. It is useful for system operators who are either keying in or verifying data from source materials. Easy to attach or remove, the Paper Holder adds a highly desirable convenience to the systems operation.

Datapoint Table

The 9053 Datapoint Table is designed to match other Datapoint products. With a working space of approximately 8½ sq. ft., any Datapoint processor or perifhal may be placed on it, thus making the table a useful addition to a work area.

Technical Description

Dimensions
Height: 28.50 inches (72.4cm)
Length: 53.06 inches (134.6cm)
Width: 22.69” (57.6cm)

Model Code: 9053
**Datastation 3600**

The Datastation 3600 is a low cost video terminal intended for use with the Datashare multi-terminal time-sharing system. In this application the 3600 communicates with a Datapoint 2200 or 5500 via the Multiple Port Communications Adaptor.

Screen capacity is 1920 characters formatted as 80 characters per line, by 24 lines. A full upper and lower case character set compatible with all the Datapoint processors is standard.

This terminal transmits and receives serial data in an interactive full duplex mode to and from the Multiple Port Communications Adaptor via direct connection or over telephone lines using Data Sets. The serial data is transmitted in ASCII format normally at 1200 baud.

The Auto-Tab feature of the 3600 extends flexibility by providing direct cursor positioning to any screen location from the Datashare program controlling the 3600 port.

A local printer may be connected to the 3600 such that data received by the 3600 may be selectively routed to the printer in addition to being displayed on the screen.

---

**Functional Characteristics:**

<table>
<thead>
<tr>
<th>Screen Size</th>
<th>Character Size</th>
<th>Refresh Rate</th>
<th>Deflection Method</th>
<th>Buffer Memory</th>
<th>Characters Per Line</th>
<th>Keyboard</th>
<th>Cursor</th>
<th>Code Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>5&quot; x 7.9&quot; (12.7 cm x 20 cm)</td>
<td>.146&quot; x .071 (3.7 mm x 1.8 mm)</td>
<td>50/60 cps (power line frequency)</td>
<td>Raster Scan</td>
<td>1920 characters</td>
<td>80</td>
<td>Full upper and lower case ASCII</td>
<td>Flashing, on/off under program control</td>
<td>Serial ASCII Start-Stop</td>
</tr>
</tbody>
</table>

**Data Rate**

1200 baud factory-set field adjustable to 110, 150, 220, 300, 440, 600, 2400, 4800, 9600 Baud

Receive & Transmit speeds are independent

**Electrical Interface**

RS 232B (Data Set compatible in both socket and signal)

**Power**

115 VAC, 50-60 Hz
230 VAC, 50-60 Hz

---

**Physical Characteristics**

**Dimensions**

Width: 18" (45.7 cm)
Length: 19" (48.3 cm)
Height: 12" (30.5 cm)
Weight: 30 lbs. (16.5 kg)

**Cursor Controls**

Home Up
Back Space
Line Feed
Carriage Return
Turn off Cursor
Turn on Cursor
Direct Cursor Position

**Other Control Functions**

Roll Up
Bell Ring
Erase Screen to end of line
Erase Screen to end of frame
Printer control

**Model Codes**

3601 Datapoint 3600 Datastation - Datashare compatible
Datashare Video Terminal

The Datapoint 3502 is the upper-case only terminal offered specifically for use with the Datashare multi-terminal timesharing system. In this application the Datashare Video Terminal communicates with a Datapoint 2200 or 5500 via the Multiple Port Communications Adaptor.

Screen capacity is 2000 characters formatted as 80 characters per line, by 25 lines. In addition to the 80 characters per line, two addition characters can be printed at the left margin separated by a space from the main text and used for line numbering or indexing of the first 24 lines.

This terminal transmits and receives serial data in an interactive full duplex mode to and from the Multiple Port Communications Adaptor via direct connection or over telephone lines using Data Sets. The serial data is transmitted in ASCII format at one of four selectable baud rates (300, 1200, 2400, 4800).

The Auto-Tab feature of the 3502 extends flexibility by providing direct cursor positioning to any screen location from the Datashare program controlling the 3502.

### Functional Characteristics

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Screen Size</td>
<td>Standard 12” rectangular tube</td>
</tr>
<tr>
<td>Character Size</td>
<td>.100” x .058”</td>
</tr>
<tr>
<td>Refresh Rate</td>
<td>50 60 cps (power line frequency)</td>
</tr>
<tr>
<td>Buffer Memory</td>
<td>2048 Characters</td>
</tr>
<tr>
<td>Characters Per Line</td>
<td>82</td>
</tr>
<tr>
<td>Keyboard</td>
<td>Full uppercase ASCII Keyboard plus control keys featuring &quot;n&quot;-key rollover and 10 numerics pad</td>
</tr>
<tr>
<td>Cursor</td>
<td>Flashing on off under program control remotely positionable</td>
</tr>
<tr>
<td>Code Type</td>
<td>Serial ASCII Start-Stop</td>
</tr>
<tr>
<td>Data Rate</td>
<td>300, 1200, 2400, 4800 baud selectable</td>
</tr>
<tr>
<td>Electrical Interface</td>
<td>E.I.A. RS 232B (Data Set compatible in both socket and signal)</td>
</tr>
<tr>
<td>Other Control Functions</td>
<td>Bell Ring</td>
</tr>
<tr>
<td></td>
<td>Erase Screen to end of line</td>
</tr>
<tr>
<td></td>
<td>Erase Screen to end of frame</td>
</tr>
</tbody>
</table>

### Physical Characteristics

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power</td>
<td>180 watts, 115 VAC or 230 VAC 50 or 60 Hz</td>
</tr>
<tr>
<td>Dimensions</td>
<td>Width: 18 inches (45.7cm)</td>
</tr>
<tr>
<td></td>
<td>Length: 18 inches (45.7cm)</td>
</tr>
<tr>
<td></td>
<td>Height: 14 inches (35.6 cm)</td>
</tr>
<tr>
<td></td>
<td>Weight: 48 lbs. (21.7 kg)</td>
</tr>
<tr>
<td>Model Codes</td>
<td>3502 Datapoint Terminal, 115 VAC 3522 Datapoint Terminal, 230 VAC</td>
</tr>
</tbody>
</table>
Datapoint 3300® Interactive Terminal

The Datapoint 3300 is an interactive data terminal designed primarily for the computer time sharing user. Standard features of the 3300 include complete interchangeability with standard teletypewriter equipment, high-speed data transmission capabilities, a high capacity and flexible CRT display, easy to read characters, solid state construction throughout, modern styling, totally self contained and a 64-character set keyboard. A hard copy printer is optional.

The 3300 is intended primarily for use by the remote computer user who utilizes “dialogue” with a computer to arrive at a solution to a problem. Typically, this “interactive” user is an engineer, scientist or similar professional whose work requires substantial and immediate assistance from a computer. The 3300 will permit this user to tap the power of the remote computer more effectively.

The Datapoint 3300 screen can accommodate 25 full lines with 72 characters in each line — a total of 1800 characters in a single display. The characters displayed on the CRT are easy to read because of the 60-CPS “refresh” rate and line synchronization, which keep characters totally stable and distinct. The interactive user, through the keyboard, can add, correct, revise or delete any line or character. The large screen makes it possible for him to comprehend, in full, many problems in a single glance and where necessary to make modifications and revisions. Program debugging is greatly simplified. With the 3300, the remote computer becomes a much more flexible aid to human thought processes. Data transmission rates of up to 2400 bits per second are available on the Datapoint 3300.

Specifications

| Screen size | Standard 12 inch rectangular tube |
| Character size | 0.16 inches x 0.11 inches |
| Number of characters | 1800 |
| Characters per line | 72 |
| Number of lines | 25 |
| Refresh rate | 60 CPS, line synchronized |
| Type of memory | MOS semiconductor |
| Power | 115 VAC, 60 Hz, 180 watts |

Keyboard
Electronic, with Model 33 Teletype layout including additional controls and optional 10 key numerical entry n-key remover

Controls
Cursor: up down, left, right, home up, home down
Erase: to end of line, to end of frame
Frame roll: up, down
Power: on, off
Mode: remote-local select
Transmission: full duplex-half duplex select

Cursor
Flashing, remote or local control

Input/Output Data rate
110, 150, 220, 300, 440, 600, 880, 1200, 1760, 2400 Baud

Communication interface
RS 232B or current loop TTY (using 3110) ASCII 8-level start-stop code

Dimensions
Width: 18 inches (45.7cm)
Height: 14 inches (35.6cm)
Depth: 19 inches (48.2cm)
Weight: 48 lbs. (21.7kg)

Model Codes
3301 Interactive CRT Terminal
3102 Answerback option (factory-installed only)
3110 Telegraph Loop Keyer
3302 230 VAC, 50 Hz model (factory-installed only)
3112 Auto carriage-return/line-feed deletion kit
3113 Coded Cursor Key Kit
3114 Backspace Coding Kit
3115 Escape Key Coding Kit
3116 Space Over-write Latch Kit
Datapoint 3000® Interactive Terminal

Based on concepts proven in the Datapoint 3300, the Datapoint 3000 was developed to provide the time sharing user with an inexpensive, interactive display terminal with full-screen teletypewriter compatibility. The terminal is attractively styled and quiet enough to fit the most critical office environment.

The Datapoint 3000 operates at data rates of 110, 150, 220, and 300 bits/second (10, 15, 20, and 30 characters per second). A separate eleven-key number pad and ten function keys provide a functional keyboard arrangement.

<table>
<thead>
<tr>
<th>Functional Characteristics</th>
<th>Controls</th>
<th>Power Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Screen Size</td>
<td>Cursor: up, down, right, left, home up, home down</td>
<td>115 v.a.c., 60 Hz, 140 watts</td>
</tr>
<tr>
<td>Character Size</td>
<td>Erase: to end of line, to end of frame</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Frame roll: up, down</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Power: on, off</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mode: remote/local</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Transmission: full duplex/half duplex</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Rate: 110, 150, 220, 300 bits/second</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Physical Characteristics</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Dimensions</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Width: 18 inches (45.7cm)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Height: 14 inches (35.6cm)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Depth: 19 inches (48.2cm)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Weight: 48 lbs. (21.7kg)</td>
<td></td>
</tr>
<tr>
<td>Character Set (ASCII)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>27 alphabetic</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10 numeric</td>
<td></td>
<td></td>
</tr>
<tr>
<td>26 special</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Number of Characters</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1800</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Characters Per Line</td>
<td></td>
<td></td>
</tr>
<tr>
<td>72</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Number of Lines</td>
<td></td>
<td></td>
</tr>
<tr>
<td>25</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Refresh Rate</td>
<td></td>
<td></td>
</tr>
<tr>
<td>60 frames per second</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Model Codes</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3001 Interactive CRT Terminal</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3102 Answerback option</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3110 Telegraph Loop Keyer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3002 230 v.a.c., 50 Hz option</td>
<td>(factory-installed only)</td>
<td></td>
</tr>
<tr>
<td>3112 Auto carriage-return/line-feed deletion kit</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3113 Coded Cursor Key Kit</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3114 Backspace Coding Kit</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3115 Escape Key Coding Kit</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3116 Space Over-write Latch kit</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3200 80 Column Printer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3201 Print Control option for 3001</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3400 Data Coupler</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Datapoint 3360®/Display Unit

The Datapoint 3360 video terminal is a systems oriented terminal, capable of 480 character-per-second operation. Screen capacity is 2000 characters, formatted as 80 characters per line, by 25 lines. In addition to the 80 characters per line, two additional characters can be printed at the left margin separated by a space from the main text and used for line numbering or indexing of the first 24 lines.

This terminal transmits serial data in an interactive or full duplex mode. In addition to the interactive mode, this terminal also has a block transmit mode capable of transmitting one complete line of data as a block. The block transmitted data is selected by positioning the cursor to the information desired on the screen, and block terminal is initiated by a control "B" received by the terminal.

The serial data is transmitted in ASCII format at one of four selected baud rates. The baud rate select switch is physically located on the back panel near the lower left corner of the terminal.

The terminal may be used where system requirements call for a computer-controlled buffered terminal. All operations with the 3500 must be on-line. No off-line operations are possible, as the terminal must operate in a full-duplex manner.

Many options are available for this terminal, one of which is Auto-Tab. This option extends the flexibility of the 3360 Terminal by providing direct cursor positioning to any location directed by program control. This option will also allow the terminal to search out and locate for program control the exact location of three separate and distinct symbols and multiple locations of these symbols.

Specifications

<table>
<thead>
<tr>
<th>Terminal Screen Size</th>
<th>Character Size 0.16&quot; x 0.11&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>Refresh Rate 60 cps, Line Synchronized</td>
<td></td>
</tr>
<tr>
<td>Buffer Memory 2000 Characters</td>
<td></td>
</tr>
<tr>
<td>Characters per Line 80</td>
<td></td>
</tr>
<tr>
<td>Number of Lines 24 (plus optional command line)</td>
<td></td>
</tr>
<tr>
<td>Keyboard Full uppercase ASCII Keyboard plus control keys featuring &quot;n&quot;-key rollover and 10 key numerics pad</td>
<td></td>
</tr>
<tr>
<td>Cursor Controls Up Cursor Down Cursor Left Cursor Right Cursor Home Up Back Space Line Feed Carriage Return Turn off Cursor and Printer Turn on Cursor Direct Cursor position</td>
<td></td>
</tr>
<tr>
<td>Code Type Serial ASCII Start-Stop</td>
<td></td>
</tr>
<tr>
<td>Data Rate 300, 1200, 2400, or 4800 baud selectable</td>
<td></td>
</tr>
<tr>
<td>Electrical Interface E.I.A.-RS 232B (Data Set compatible in both socket and signal)</td>
<td></td>
</tr>
<tr>
<td>Power 180 watts, 115 VAC, 50 Hz, 60 Hz</td>
<td></td>
</tr>
<tr>
<td>Other Control Functions Bell Ring Start Printer Block Transmit Line Cursor is on Erase screen to end of line Erase screen to end of frame</td>
<td></td>
</tr>
</tbody>
</table>

Physical Characteristics

| Dimensions Width: 18" (45.7cm) Length: 18" (45.7cm) Height: 14" (35.6cm) Weight: 48 lbs. (21.7kg) |
| Model Codes 3500 Datapoint 3360 Buffered Terminal, 115 VAC 3520 Datapoint 3360 Buffered Terminal, 230 VAC 3501 Automatic Tab option for 3500 (Factory Installed only) |
Datapoint Data Coupler

To provide the Datapoint user with a simple, low-cost Bell System compatible method of accessing the telephone network, Datapoint Corporation offers the Datapoint 3300/Data Coupler. The Coupler is compatible with the Bell System 103-type Dataphones® and operates in the originate mode.

The Data Coupler provides acoustical coupling to the telephone network through the handset of a Bell System 500-series telephone set, eliminating the need of any direct electrical connection. It operates at any data rate up to 300 bits per second in full or half duplex mode. A fully industry-compatible (Electronic Industries Association RS-232B) electrical interface for inter-connection to Datapoint terminals is provided. An additional output is also provided for use with auxiliary teleprinters or other devices.

---

**Functional Characteristics**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Data Rate</strong></td>
<td>Up to 300 bits per second</td>
</tr>
<tr>
<td><strong>Modulation</strong></td>
<td>Bell System 103 compatible, originate mode</td>
</tr>
<tr>
<td><strong>Line Conditioning</strong></td>
<td>Bell System DDD network lines</td>
</tr>
<tr>
<td><strong>Transmission Mode</strong></td>
<td>Full or half duplex</td>
</tr>
<tr>
<td><strong>Line Interface</strong></td>
<td>Acoustic coupling</td>
</tr>
<tr>
<td><strong>Terminal Interface</strong></td>
<td>EIA RS-232B</td>
</tr>
<tr>
<td><strong>Auxiliary Interface</strong></td>
<td>EIA RS-232B (Transmit only)</td>
</tr>
<tr>
<td><strong>Operator Controls</strong></td>
<td>Full-half duplex</td>
</tr>
<tr>
<td><strong>Indicator</strong></td>
<td>Carrier detection</td>
</tr>
</tbody>
</table>

---

**Physical Characteristics**

- **Dimensions:**
  - Width: 11.75 inches (29.8cm)
  - Height: 4.5 inches (11.4cm)
  - Depth: 11.2 inches (28.4cm)
  - Weight: 4 lbs. (1.8kg)

- **Power Requirements:**
  - 115 v.a.c., 60 Hz, 12 watts

- **Model Code:**
  - 3400 Data Coupler
HOME OFFICE:
9725 Datapoint Drive
San Antonio, Texas 78284
(512) 690-7000

SALES OFFICES:
Atlanta/(404) 456-6423
Austin/(512) 459-9424
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New York/(212) 754-4556
Orlando/(305) 896-1940
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Pittsburgh/(412) 391-7213
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Datapoint

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