# Datapoint Equipment Directory Index

## Processors

<table>
<thead>
<tr>
<th>Description</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>The Datapoint Processors</td>
<td>2</td>
</tr>
<tr>
<td>Cassette 1100 Intelligent Terminal</td>
<td>3</td>
</tr>
<tr>
<td>Diskette 1100 Intelligent Terminal</td>
<td>4</td>
</tr>
<tr>
<td>2200 Business Processor</td>
<td>5</td>
</tr>
<tr>
<td>5500 Advanced Business Processor</td>
<td>6</td>
</tr>
<tr>
<td>General Processor Features</td>
<td>7</td>
</tr>
</tbody>
</table>

## Peripheral Equipment

<table>
<thead>
<tr>
<th>Description</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Servo Printer</td>
<td>8</td>
</tr>
<tr>
<td>Belt Printers</td>
<td>9</td>
</tr>
<tr>
<td>Matrix Printers</td>
<td>10</td>
</tr>
<tr>
<td>Line Printers</td>
<td>11</td>
</tr>
<tr>
<td>Diskette Memory</td>
<td>12</td>
</tr>
<tr>
<td>Cartridge Disk</td>
<td>13</td>
</tr>
<tr>
<td>Mass Storage Disk</td>
<td>14</td>
</tr>
<tr>
<td>556 &amp; 800 BPI Tape Systems</td>
<td>15</td>
</tr>
<tr>
<td>1600 BPI Magnetic Tape System</td>
<td>16</td>
</tr>
<tr>
<td>Card Reader</td>
<td>17</td>
</tr>
<tr>
<td>Communications Adaptors</td>
<td>18-19</td>
</tr>
<tr>
<td>Multiple Port Communications Adaptor</td>
<td>20</td>
</tr>
<tr>
<td>Communications Power Supply Unit</td>
<td>21</td>
</tr>
<tr>
<td>CCITT Communications Adaptor</td>
<td>21</td>
</tr>
<tr>
<td>Table</td>
<td>22</td>
</tr>
<tr>
<td>Shelf Attachment</td>
<td>22</td>
</tr>
<tr>
<td>Paper Holder</td>
<td>22</td>
</tr>
</tbody>
</table>

## Interactive Terminals

<table>
<thead>
<tr>
<th>Description</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>3600 Datastation</td>
<td>23</td>
</tr>
<tr>
<td>3360 Datashare Video Terminal</td>
<td>24</td>
</tr>
<tr>
<td>3300</td>
<td>25</td>
</tr>
<tr>
<td>3000</td>
<td>26</td>
</tr>
<tr>
<td>3360 Buffered Display Unit</td>
<td>27</td>
</tr>
<tr>
<td>3400 Datacoupler</td>
<td>28</td>
</tr>
</tbody>
</table>
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 Philips-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: 9½ inches (24.5cm)
Width: 18½ inches (47 cm)
Depth: 19 inches (49.9 cm)
Power: 115 VAC, 50-60 Hz
230 VAC, 50-60 Hz optional
Environment: 32° to 122°F
(0° to 50°C)
40-60% relative humidity

**Model Codes:**
1104 Datapoint Cassette 1100, 4K Memory, 115 VAC, 50-60 Hz
1108 Datapoint Cassette 1100, 8K Memory, 115 VAC, 50-60 Hz
1163 Power Option, 230 VAC, 50-60Hz
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 VAC, 50-60Hz.
- 230 VAC, 50-60Hz optional

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

**Environment**
- Environment: 50° to 100°F (10° to 38°C)
- 20 to 80% relative humidity

**Model Codes:**
- 1131 Datapoint Diskette 1100
  - One Diskette Drive, 115 VAC, 50-60Hz
- 1132 Datapoint Diskette 1100
  - Two Diskette Drives, 115 VAC, 50-60Hz
- 1133 Datapoint Diskette 1100
  - Three Diskette Drives, 115 VAC, 50-60Hz
- 1134 Datapoint Diskette 1100
  - Four Diskette Drives, 115 VAC, 50-60Hz
- 1163 Power Option, 230 VAC, 50-60Hz
**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 a 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.

An option for a 128 character programmable high speed display is available for applications requiring special characters.

---

### 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 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 16,384 word memory
- (8 bit word)
- 1.6 microsecond access
- All memory fully programmable

### Physical Characteristics

- Weight: 47 lbs. (21.3kg)
- Height: 9¾ inches (24.5cm)
- Width: 18½ inches (47cm)
- Depth: 19¾ inches (50cm)
- Power: 115 VAC, 50-60 Hz
- 230 VAC, 50-60 Hz optional
- Environment: 32° to 122° F (0° to 50° C)
- 40-60% relative humidity

**Model Codes**
- 2214 Datapoint Cassette 2200, 4K Memory, 115 VAC, 50-60 Hz
- 2218 Datapoint Cassette 2200, 8K Memory, 115 VAC, 50-60 Hz
- 2222 Datapoint Cassette 2200, 12K Memory, 115 VAC, 50-60 Hz
- 2226 Datapoint Cassette 2200, 16K Memory, 115 VAC, 50-60 Hz
- 9001 Programmer High Speed Display Option
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 Phillips 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: 9¾ inches (24.5cm)
Width: 18½ inches (47cm)
Depth: 19¾ inches (49.9cm)
Power: 115 VAC, 50-60 Hz
230 VAC, 50-60 Hz optional
Environment: 32° to 122° F
(0° to 50° C)
40-60% relative humidity

Model Codes:
5524 Datapoint Cassette 5500, 24K User Memory, 115 VAC, 50-60 Hz
5536 Datapoint Cassette 5500, 36K User Memory, 115 VAC, 50-60 Hz
5548 Datapoint Cassette 5500, 48K User Memory, 115 VAC, 50-60 Hz
5163 Power Option, 230 VAC, 50-60 Hz
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 characters. 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 programmer's 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 helicon-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 additional 32 characters for special symbols such as the characters of 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.

---

**Functional Characteristics**

<table>
<thead>
<tr>
<th>Character Font</th>
<th>Power Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Three printwheels</td>
<td>115 VAC, 50-60 Hz</td>
</tr>
<tr>
<td>available:</td>
<td>230 VAC, 50-60 Hz optional</td>
</tr>
<tr>
<td>Courier 10</td>
<td>9250, 9254</td>
</tr>
<tr>
<td>Pica</td>
<td>Width: 53 inches (134.6cm)</td>
</tr>
<tr>
<td>Elite</td>
<td>Height: 37 inches (94cm)</td>
</tr>
<tr>
<td></td>
<td>Weight: 215 lbs. (97.5kg)</td>
</tr>
<tr>
<td></td>
<td>9251, 9255</td>
</tr>
<tr>
<td></td>
<td>Width: 36 inches (91.5cm)</td>
</tr>
<tr>
<td></td>
<td>Height: 37 inches (94cm)</td>
</tr>
<tr>
<td></td>
<td>Depth: 37 inches (94cm)</td>
</tr>
<tr>
<td></td>
<td>Weight: 195 lbs. (89 kg)</td>
</tr>
</tbody>
</table>

**Printing Speed**

30 CPS (asynchronous)

**Printing Method**

Impact, Rotating Printwheel

**Carriage Slew Rate**

30 inches per second

**Paper Skipping Rate**

24 lines per second

**Print Positions per Line**

132 (with 10 char. per inch)

**Paper Type**

Capable of handling tractor feed forms (max 14.875") or ordinary typewriter paper.

**Format Control**

Line Feed Key
Form Feed Key
Platen Knob for forms adjustment
Forms Thickness adjustment

**Physical Characteristics**

**Dimensions**

9250, 9254
Width: 53 inches (134.6cm)
Height: 37 inches (94cm)
Depth: 37 inches (94cm)
Weight: 215 lbs. (97.5kg)

9251, 9255
Width: 36 inches (91.5cm)
Height: 37 inches (94cm)
Depth: 37 inches (94cm)
Weight: 195 lbs. (89 kg)

**Model Codes**

9250 Printer, Servo, 30 CPS+
Console, 115 VAC
9251 Printer, Servo, 30 CPS+, Freestanding, 115 VAC
9253 12 Inch Form Option, For 9250/9251 Servo Printer
9252 230 VAC Power Option
80260 Cloth Ribbon
80261 Carbon Ribbon
80270 Courier 10 Printwheel
80271 Pica Printwheel
80272 Elite Printwheel
Matrix Printers

The 9245 is a medium speed, impact line printer using 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:

**Printing Speed**
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

**Interconnection**
Direct connection to Datapoint processors I/O bus

**Physical Characteristics**

<table>
<thead>
<tr>
<th>Printer</th>
<th>Width</th>
<th>Height</th>
<th>Depth</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>9245</td>
<td>27¾ in. (70.5cm)</td>
<td>11½ in. (29.2cm)</td>
<td>20 in. (50.8cm)</td>
<td>118 lbs. (54kg)</td>
</tr>
<tr>
<td>9246</td>
<td>19¾ in. (50.2cm)</td>
<td>25 in. (63.5cm)</td>
<td>17⅛ in. (44cm)</td>
<td>52 lbs. (28kg)</td>
</tr>
</tbody>
</table>

**Power Requirements**
115 VAC, 60Hz
230 VAC, 50 Hz optional

**Model Codes**
9245 Printer, Matrix 125 LPM, 115 VAC
9246 Table for Matrix Printer
9248 Lower Tractor Feed Option
9249 Power Option 230 VAC, 50 Hz
Datapoint Belt Printers

The Datapoint Belt Printer provides the user with an economical medium-speed impact printer in a compact package. It offers system versatility, with a selection of two speed ranges to suit the application.

The printer is available in two versions: as a system printer for direct connection to any Datapoint processor or as a DATASHARE terminal printer capable of operating in conjunction with a 3600 display terminal over serial communications lines.

The print rate is 120 or 240 characters per second in a 120 column format. The 96 character print belt prints a standard ASCII character set in upper or lower case. Standard single sheet sprocket-fed paper or multiple part forms of up to six parts may be accommodated. The paper feed tractors are adjustable. Top of form control is provided by a standard paper tape.

The Belt Printers are offered complete with stand and paper stacking shelf, and are attractively housed. Their human-engineered design provides easy operation, and minimizes care. The simple printer controls are readily accessible, and clearly marked. Paper loading is accomplished quickly. Ribbons can also be changed without tools.

The print ribbon is a standard business machine type, obtainable in any office supply store. A lengthy ribbon life is attained through the use of an automatic re-inker.

### Functional Characteristics:

**Printing Speed:**
- 9291/9292 - 120 characters per second (60 lines per minute)
- 9294 - 240 characters per second (120 lines per minute)

**Character Font:**
96 character, upper and lower case. ASCII open Gothic, characters .095" high and .065" wide.

**Paper Feed:**
Set of adjustable feed tractors, or external roller knob for manual positioning.

**Line Advance Time:**
Single line advance - 30 milliseconds maximum.

**Paper Slew Speed:**
5.75 inches per second

**Paper Dimensions:**
From 3 to 12.85 inches wide. continuous form.

**Paper Type:**
Standard 120 column fan-fold.
Single copy (15 pound bond) to 6 part multiple copy (12 pound bond with 8 pound interleaved carbon).

**Format Control:**
Standard teletype tape with top of form for variable length forms. Tape is optically read.

**Printing Method:**
Impact with a rotating belt of fully formed characters.

**Interconnection:**
- 9291/4 - Direct connection to any Datapoint processor.
- 9292 - For DATASHARE use, an indirect connection to a Datastation 3600 using a "Y" cable (which replaces the standard 3600 cable).

**Physical Characteristics:**
- Width: 20.5 inches (52.07 cm)
- Depth: 23 inches (58.42 cm)
- Height: 11.56 inches (29.36 cm)
- Weight: 90 pounds (with stand), 72 pounds (without stand)

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

**Model Codes:**
- 9291 Belt Printer, 120 CPS, 115 VAC, 60 Hz
- 9292 Belt Printer, 120 CPS, Serial Interface, 115 VAC, 60 Hz
- 9293 Power Option for 9292, 230 VAC
- 9294 Belt Printer, 240 CPS, Parallel Interface, 115 VAC, 60 Hz
- 9295 Power Option 230 VAC, 50Hz
Datapoint 300 and 600 LPM Line Printers

The Datapoint Line Printers provide the user with high-quality, medium-speed printing in compact and operator-oriented packages. They find wide application with all Datapoint processors requiring crisp, clear, hard copy.

The printers operate at a rate of 300 or 600 lines per minute on a 132 column format using 64 (or 94) 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.

Standard features include a form length selector switch and ribbon de-skew for longer ribbon life. A static eliminator is also included.

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.

Functional Characteristics:

Printing Speed:
300 or 600 lines per minute on 132 character lines using a 64 character set. Speed slower using 96 character set.

Printing Method:
Impact with rotating drum.

Slew Speed:
20 inches/second for 300 LPM
25 inches/second for 600 LPM

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:

<table>
<thead>
<tr>
<th>300 LPM</th>
<th>600 LPM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width: 32 in.</td>
<td>33&quot; (83.8 cm)</td>
</tr>
<tr>
<td>Height: 45 in.</td>
<td>45&quot; (114.3 cm)</td>
</tr>
<tr>
<td>Depth: 22 in.</td>
<td>26&quot; (66.0 cm)</td>
</tr>
<tr>
<td>Weight: 330 lbs.</td>
<td>370 (167.7 Kilos)</td>
</tr>
</tbody>
</table>

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

Model Codes:
9280 300 LPM printer
64 character font
single channel vertical-form control
9281 300 LPM Printer
96 character font
9260 600 LPM Printer
64 character font
9261 600 LPM Printer
96 character font
9284 Paper receptacle for Line Printers
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 (except the Cassette 1100). No other device is required. Each unit houses a controller with up to four diskette drives.

---

**Functional Characteristics**

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

- **Track-to-track:** 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 VAC or 230 VAC, 50-60 Hz

---

**Equipment Dimensions:**

- **Console**
  - Width: 53.0 in. (134.6 cm)
  - Height: 26.0 in. (66.0 cm)
  - Depth: 24.0 in. (60.9 cm)
  - Weight: 200.0 lbs. (91 kg)

- **Freestanding**
  - Width: 36.0 in. (91.4 cm)
  - Height: 28.0 in. (71.1 cm)
  - Depth: 24.0 in. (60.9 cm)
  - Weight: 175.0 lbs. (78 kg)

**Model Codes:**

- 9381 Diskette Controller with one drive, console mounted
- 9382 Diskette Controller with two drives, console mounted
- 9383 Diskette Controller with three drives, console mounted
- 9384 Diskette Controller with four drives, console mounted
- 9385 Diskette Controller with one drive, freestanding
- 9386 Diskette Controller with two drives, freestanding
- 9387 Diskette Controller with three drives, freestanding
- 9388 Diskette Controller with four drives, freestanding
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>Physical Characteristics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Surfaces</td>
<td>Rotation Speed 1500 rpm</td>
<td>Dimensions</td>
</tr>
<tr>
<td>Tracks/Surface</td>
<td>Average Latency 20 ms</td>
<td>9350 Console</td>
</tr>
<tr>
<td>Sectors/Track</td>
<td>Track-to-Track 15 ms Max.</td>
<td>Width: 53.0 in. (135cm)</td>
</tr>
<tr>
<td>Bytes/Sector</td>
<td>Average Seek Time: 70 ms</td>
<td>Height: 28.0 in. (71cm)</td>
</tr>
<tr>
<td>Bytes/Disk (8 bits)</td>
<td>2,494,464</td>
<td>Depth: 24.0 in. (60.9cm)</td>
</tr>
<tr>
<td>Bit Density</td>
<td>Operator Controls</td>
<td>Weight: 330 lbs. (150.6 kg)</td>
</tr>
<tr>
<td>2200 BPI</td>
<td>Load/Run</td>
<td></td>
</tr>
<tr>
<td>Track Density</td>
<td>Protect</td>
<td>Power Requirements</td>
</tr>
<tr>
<td>100 TPI</td>
<td>Indicator Lamps</td>
<td>115 VAC, 50-60 Hz</td>
</tr>
<tr>
<td>Bit Transfer Rate</td>
<td>Load</td>
<td>230 VAC, 50-60Hz optional</td>
</tr>
<tr>
<td>(to buffer)</td>
<td>Ready</td>
<td></td>
</tr>
<tr>
<td>1562 KHz</td>
<td>Protect</td>
<td>Model Codes</td>
</tr>
<tr>
<td></td>
<td>Check</td>
<td>9350 Disk, Removable Cartridge - Controller &amp; drive, console, 115 VAC</td>
</tr>
<tr>
<td></td>
<td>Interconnection</td>
<td>9351 Freestanding</td>
</tr>
<tr>
<td></td>
<td>Connects directly to a Datapoint processor.</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. (60.9cm)</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, 50-60 Hz
230 VAC, 50-60Hz optional

### Model Codes

- 9350 Disk, Removable Cartridge - Controller & drive, console, 115 VAC
- 9351 Disk, Removable Cartridge - Controller & drive, freestanding, 115 VAC
- 9352 Disk, Dual; Removable Cartridge with controller & drive, console mounted and fixed disk, freestanding, 115 VAC
- 9353 Disk, Dual; Removable Cartridge with Controller & drive, freestanding mounted with fixed disk, freestanding, 115 VAC
- 9355 Disk, Dual; Removable Cartridge drive (no controller), freestanding and fixed disk, freestanding, 115 VAC
- 9354 Disk, Removable Cartridge - Single Drive (no controller) Extension Unit, freestanding, 115 VAC
- 9356 Disk, Fixed Cartridge (no controller) freestanding, 115 VAC
- 9363 Power Option, Cartridge Disk, 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>Capacity (each drive)</th>
<th></th>
</tr>
</thead>
<tbody>
<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>

<table>
<thead>
<tr>
<th>Timing</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Bit Transfer rate (to and from buffer)</td>
<td>2.5 MHz</td>
</tr>
<tr>
<td>Byte Transfer rate (to and from buffer)</td>
<td>312.5 kHz</td>
</tr>
<tr>
<td>RPM</td>
<td>2400</td>
</tr>
<tr>
<td>Average Rotational latency time</td>
<td>12.5 MSec</td>
</tr>
<tr>
<td>Head Positioning</td>
<td>average 35 MSec</td>
</tr>
</tbody>
</table>

### Physical Characteristics

<table>
<thead>
<tr>
<th>Disk Drive (each drive)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Width</td>
<td>30 in. (76.5 cm)</td>
</tr>
<tr>
<td>Depth</td>
<td>24 in. (61 cm)</td>
</tr>
<tr>
<td>Height</td>
<td>39 in. (99 cm)</td>
</tr>
<tr>
<td>Weight</td>
<td>394 lbs. (180 kg)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Power Requirements</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>208/230 VAC, 3 phase, 4 wire, 60 Hz</td>
<td></td>
</tr>
<tr>
<td>50 Hz operation optional</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Environment</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature</td>
<td>60' to 90' F (15' to 32' C)</td>
</tr>
<tr>
<td>Relative Humidity</td>
<td>8 to 80%, non condensing</td>
</tr>
<tr>
<td>Max. Rate of change for Temperature</td>
<td>± 15 F/hour</td>
</tr>
<tr>
<td>Room: requires filtered circulation</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Model Codes</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>9370</td>
<td>Disk, Mass Storage, Freestanding Controller and Drive, 60 Hz, 230 VAC</td>
</tr>
<tr>
<td>9371</td>
<td>Disk, Mass Storage Drive Extension for 9370, 60 Hz</td>
</tr>
<tr>
<td>9373</td>
<td>Disk, Mass Storage Console Mounted Controller and Drive, 60 Hz, 230 VAC</td>
</tr>
<tr>
<td>9372</td>
<td>Power Option, 50 Hz, 230 VAC</td>
</tr>
</tbody>
</table>
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 characters.

<table>
<thead>
<tr>
<th>Functional Characteristics</th>
<th>Physical Characteristics</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Recording Format</strong></td>
<td></td>
</tr>
<tr>
<td>(Industry-Compatible)</td>
<td></td>
</tr>
<tr>
<td>9550, 9551</td>
<td></td>
</tr>
<tr>
<td>9-channel, NRZI</td>
<td></td>
</tr>
<tr>
<td>800 BPI</td>
<td></td>
</tr>
<tr>
<td>9552, 9553</td>
<td></td>
</tr>
<tr>
<td>7-channel, NRZI</td>
<td></td>
</tr>
<tr>
<td>556/800 BPI</td>
<td></td>
</tr>
<tr>
<td><strong>Tape Speed</strong></td>
<td></td>
</tr>
<tr>
<td>12.5 inches per second</td>
<td></td>
</tr>
<tr>
<td><strong>Reel Capacity</strong></td>
<td></td>
</tr>
<tr>
<td>8.5, 7 inch or mini reels</td>
<td></td>
</tr>
<tr>
<td>of ½ inch tape</td>
<td></td>
</tr>
<tr>
<td>1200 feet length</td>
<td></td>
</tr>
<tr>
<td><strong>Maximum Record Length</strong></td>
<td></td>
</tr>
<tr>
<td>1057 bytes</td>
<td></td>
</tr>
<tr>
<td><strong>Error Control</strong></td>
<td></td>
</tr>
<tr>
<td>Industry compatible</td>
<td></td>
</tr>
<tr>
<td>Fully automatic VP, LRCC,</td>
<td></td>
</tr>
<tr>
<td>CRCC</td>
<td></td>
</tr>
<tr>
<td>Read-after-write</td>
<td></td>
</tr>
<tr>
<td><strong>Interconnection</strong></td>
<td></td>
</tr>
<tr>
<td>Direct connection to Datapoint Processor</td>
<td></td>
</tr>
<tr>
<td>I/O Bus</td>
<td></td>
</tr>
</tbody>
</table>

---

9550 Tape Transport, 9-channel, console, 115 VAC
9551 Tape Transport, 9-channel, freestanding, 115 VAC
9552 Tape Transport, 7-channel, 800 BPI, console, 115 VAC
9553 Tape Transport, 7-channel, 800 BPI, freestanding, 115 VAC
9305 Power Option, 230 VAC, 50-60 Hz
9557 556 BPI Data Density option
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-channel (including parity)**
- **phase encoded, ANSI Compatible**
- **Tape Speed**
  - 12.5 ips.
- **Reel Capacity**
  - 8.5 inch diameter
  - 1/2 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 optional

#### Dimensions:

<table>
<thead>
<tr>
<th></th>
<th>9580</th>
<th>9581</th>
</tr>
</thead>
<tbody>
<tr>
<td>Height</td>
<td>37.0 in. (94cm)</td>
<td>28.0 in. (71cm)</td>
</tr>
<tr>
<td>Width</td>
<td>53.0 in. (135cm)</td>
<td>26.0 in. (66cm)</td>
</tr>
<tr>
<td>Depth</td>
<td>24.0 in. (61cm)</td>
<td>24.0 in. (61cm)</td>
</tr>
<tr>
<td>Weight</td>
<td>240 lbs. (110kg)</td>
<td>220 lbs. (101kg)</td>
</tr>
</tbody>
</table>

#### Model Codes
- 9580 Tape Transport, 9-channel, 1600 BPI, console, 115 VAC
- 9581 Tape Transport, 9-channel, 1600 BPI, freestanding, 115 VAC
- 9312 Power Option, 230 VAC, 50-60 Hz
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 VAC, 50-60 Hz optional

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

Model Codes:
9504 Card Reader, 60 Hz, 115 VAC
9505 Power Option, 230 VAC, 50-60 Hz
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 adapters 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 throughput 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 ADAPTORS

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Data Rate</strong></td>
<td>37.5 to 9600 baud, programmable</td>
</tr>
<tr>
<td><strong>Data Length</strong></td>
<td>7-11 bit code, including start and stop programmable pulses</td>
</tr>
<tr>
<td><strong>Interface</strong></td>
<td>Connects directly to a Datapoint Processor I/O Bus</td>
</tr>
<tr>
<td><strong>Codes</strong></td>
<td>Any asynchronous</td>
</tr>
<tr>
<td><strong>Data Format</strong></td>
<td>Serial asynchronous, start-stop</td>
</tr>
</tbody>
</table>

#### Physical Specifications

(All communications adapters)

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Power</strong></td>
<td>The Datapoint 2200 will supply power for up to two adaptors. More require auxiliary power supply.</td>
</tr>
<tr>
<td><strong>Mounting</strong></td>
<td>Wall, console, or stand-alone.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Dimensions</strong></td>
<td>10.5 Wx15.5 Hx2.7 D (inches)</td>
</tr>
<tr>
<td></td>
<td>26.7cm x 39.4cm x 6.9 cm</td>
</tr>
<tr>
<td><strong>MODEL CODE 9400</strong></td>
<td><strong>Serial Data Adaptor</strong></td>
</tr>
<tr>
<td><strong>Signal</strong></td>
<td>RS232C level signal, full or half duplex</td>
</tr>
<tr>
<td><strong>Rate</strong></td>
<td>37.5 to 9600 baud, programmable</td>
</tr>
<tr>
<td><strong>Connection</strong></td>
<td>Teleprinters, Bell Dataphone*, other serial devices</td>
</tr>
<tr>
<td><strong>MODEL CODE 9401</strong></td>
<td><strong>300 Baud Modem</strong></td>
</tr>
<tr>
<td><strong>Signal</strong></td>
<td>Equivalent to Bell 103 Dataphone*</td>
</tr>
<tr>
<td><strong>Rate</strong></td>
<td>300 Baud (450-Baud max), full duplex</td>
</tr>
<tr>
<td><strong>Operations</strong></td>
<td>Auto-dial, autoanswer, direct connection</td>
</tr>
<tr>
<td><strong>Connection</strong></td>
<td>Bell 1001 B Direct Access Arrangement or private wire</td>
</tr>
</tbody>
</table>

| **MODEL CODE 9402**      | **1200 Baud Modem**                                 |
| **Signal**               | Equivalent to Bell 202 Dataphone*                   |
| **Rate**                 | 1200 Baud (1800 Baud max.), 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                  |
| **Operations**           | 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 9404/9405**

Synchronous Data Adaptor

<table>
<thead>
<tr>
<th>Data Format</th>
<th>Synchronous</th>
</tr>
</thead>
<tbody>
<tr>
<td>Data Rate</td>
<td>Rate determined by modem used.</td>
</tr>
<tr>
<td>Codes</td>
<td>ASCII or EBCDIC (must be specified)</td>
</tr>
<tr>
<td>Interface</td>
<td>Connects directly to Datapoint processor via I/O Bus</td>
</tr>
<tr>
<td>Connection</td>
<td>Bell 201 series Dataphone or other modem.</td>
</tr>
<tr>
<td>Operations</td>
<td>Polynomial error check, VRC, LRCC</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Data Clock</th>
<th>External with 9404</th>
</tr>
</thead>
</table>

**MODEL CODE 9420**

Parallel Interface

<table>
<thead>
<tr>
<th>Data Input</th>
<th>8-wire Parallel Data</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>8-wire Parallel Status</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Data Output</th>
<th>8-wire Parallel Data</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>8-wire Parallel Command Word</td>
</tr>
<tr>
<td></td>
<td>System Reset Strobe</td>
</tr>
<tr>
<td></td>
<td>Status Input Strobe</td>
</tr>
<tr>
<td></td>
<td>Data Input Strobe</td>
</tr>
<tr>
<td></td>
<td>External Command Strobe 1</td>
</tr>
<tr>
<td></td>
<td>External Command Strobe 2</td>
</tr>
<tr>
<td></td>
<td>External Command Strobe 3</td>
</tr>
<tr>
<td></td>
<td>External Command Strobe 4</td>
</tr>
<tr>
<td></td>
<td>Device Addressed Level</td>
</tr>
</tbody>
</table>

| 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

<table>
<thead>
<tr>
<th>Codes</th>
<th>Data Rate</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Any asynchronous</td>
<td>Standard baud rates are 110,300 and 1200 baud, selected by wire jumpers on printed circuit cards.</td>
<td>10.5W x 18.0H x 2.7D (inches)</td>
</tr>
<tr>
<td>Data Format</td>
<td>Data Length</td>
<td>26.7 cm x 45.7 cm x 6.86 cm</td>
</tr>
<tr>
<td>Serial asynchronous, start stop</td>
<td>7-11 bit code, including start and stop programmable pulses</td>
<td>Power</td>
</tr>
<tr>
<td>Output Signal</td>
<td>Connection</td>
<td>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.</td>
</tr>
<tr>
<td>RS-232-C compatible, full or half duplex</td>
<td>Serial asynchronous devices such as Bell Dataphone, Teletype, Printer, Terminal, etc.</td>
<td>Model Code</td>
</tr>
<tr>
<td>Mounting</td>
<td>Codes 9460 Multiport Communications Adaptor</td>
<td>Wall, console, or stand-alone</td>
</tr>
<tr>
<td>Eight serial input/output parts.</td>
<td>9462 Multiport Communications Adaptor with data set ready signal and parity check.</td>
<td></td>
</tr>
</tbody>
</table>
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.

The same unit is also available in a rack-mounted configuration. This item, the 9450 may be installed in a RETMA rack or an empty Datapoint console or freestanding cabinet which is available separately.

---

Physical Characteristics

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

Model Codes:
9455 Communications Power Supply Unit, 4 card slots
9450 Rack mounted card tray unit, 10 card slots
9499 Power Option, 230 VAC, 50-60 Hz

Communications Adaptors for 9450, 9455

Model Codes:
9451 Adaptor Card see 9400 for function (1 card slot)
9452 Adaptor Card see 9401 for function (2 card slots)
9453 Adaptor Card see 9402 for function (2 card slots)
9454 Adaptor Card see 9403 for function (2 card slots)
9456 Adaptor Card see 9404 for function (1 card slot)

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

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: Datapoint 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 peripheral 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:**

- **Screen Size**: 5" x 7.9" (12.7cm x 20cm)
- **Character Size**: .146" x .071 (3.7mm x 1.8mm)
- **Refresh Rate**: 50/60 cps (power line frequency)
- **Deflection Method**: Raster Scan
- **Buffer Memory**: 1920 characters
- **Characters Per Line**: 80
- **Keyboard**: Full upper and lower case ASCII, Keyboard plus control keys featuring all-key rollover and 11 key numeric pad
- **Cursor**: Flashing, on/off under program control positionable by program control
- **Code Type**: Serial ASCII Start-Stop

**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 optional

**Physical Characteristics**

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

- **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
- 3111 230 VAC, 50-60 Hz power option
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 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 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>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Screen Size</td>
<td>Standard 12&quot; rectangular tube</td>
</tr>
<tr>
<td>Character Size</td>
<td>.100&quot; x .058&quot;</td>
</tr>
<tr>
<td>Refresh Rate</td>
<td>50 or 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 11 key numeric 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>Cursor Controls</td>
<td>Up Cursor, Down Cursor, Left Cursor, Right Cursor, Home Up, Back Space, Line Feed, Carriage Return, Turn off Cursor, Turn on Cursor, Direct Cursor Position</td>
</tr>
</tbody>
</table>

Data Rate

300, 1200, 2400, 4800 baud switch selectable

Electrical Interface

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

Other Control Functions

Bell Ring, Erase Screen to end of line, Erase Screen to end of frame

Physical Characteristics

Power

180 watts, 115 VAC or 230 VAC, 50 or 60 Hz

Dimensions:

Width: 18 inches (45.7cm)
Length: 18 inches (45.7cm)
Height: 14 inches (35.6 cm)
Weight: 48 lbs. (21.7 kg)

Model Codes:

3502 Datapoint Datashare Terminal, 115 VAC, 50-60 Hz
3111 230 VAC, 50-60 Hz power option
Datapoint 3300<sup>®</sup> 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 11 key numerical pad. All key rollover standard

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

**Model Codes**  
3301 Interactive Video Terminal  
3102 Answerback option (factory-installed only)  
3110 Telegraph Loop Keyer  
3111 Power Option, 230 VAC, 50-60 Hz  
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.

### Functional Characteristics

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Screen Size</td>
<td>12 inch rectangular tube</td>
</tr>
<tr>
<td>Character Size</td>
<td>0.16&quot; x 0.11&quot;</td>
</tr>
<tr>
<td>Number of Characters</td>
<td>1800</td>
</tr>
<tr>
<td>Characters Per Line</td>
<td>72</td>
</tr>
<tr>
<td>Number of Lines</td>
<td>25</td>
</tr>
<tr>
<td>Refresh Rate</td>
<td>60 frames per second</td>
</tr>
<tr>
<td>Character Set (ASCII)</td>
<td>27 alphabetic</td>
</tr>
<tr>
<td></td>
<td>10 numeric</td>
</tr>
<tr>
<td></td>
<td>26 special</td>
</tr>
</tbody>
</table>

### Power Requirements

- 115 VAC, 60 Hz, 140 watts

### Model Codes

- 3001 Interactive CRT Terminal
- 3102 Answerback option (factory-installed only)
- 3110 Telegraph Loop Keyer
- 3111 Power option, 230 VAC, 50-60 Hz
- 3112 Auto carriage-return/line-feed deletion option
- 3113 Coded Cursor Key option
- 3114 Backspace Coding option
- 3115 Escape Key Coding option
- 3116 Space Over-write Latch option
- 3200 80 Column Thermal Printer
- 3201 Print Control option for 3001
- 3400 Acoustic Data Coupler
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>Cursor</th>
<th>Solid or Flashing, on/off under program control, Remotely positionable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Code Type</td>
<td>Serial ASCII Start-Stop</td>
</tr>
<tr>
<td>Data Rate</td>
<td>300, 1200, 2400, or 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>Power</td>
<td>180 watts, 115 VAC, 60 Hz, 230 VAC, 50 Hz optional</td>
</tr>
<tr>
<td>Cursor Controls</td>
<td>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>
</tr>
</tbody>
</table>

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

Physical Characteristics
Dimensions
Width: 18" (45.7 cm)
Length: 18" (45.7 cm)
Height: 14" (35.6 cm)
Weight: 48 lbs. (21.7 kg)

Model Codes
3500 Datapoint 3360 Buffered Terminal, 115 VAC, 60 Hz
3111 Power Option, 230 VAC, 50-60 Hz
3501 Automatic Tab option for 3500
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**

**Data Rate**
Up to 300 bits per second

**Modulation**
Bell System 103 compatible, originate mode

**Line Conditioning**
Bell System DDD network lines
No special lines required

**Transmission Mode**
Full or half duplex

**Line Interface**
Acoustic coupling

**Terminal Interface**
EIA RS-232B

**Auxiliary Interface**
EIA RS-232B (Transmit only)

**Operator Controls**
Full-half duplex
Power on/off

**Indicator**
Carrier detection

---

**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 VAC, 60 Hz, 12 watts

**Model Code**
3400 Acoustic Data Coupler
HOME OFFICE:
9725 Datapoint Drive
San Antonio, Texas 78284

SALES OFFICES:
Atlanta/404 58-6423
Austin/(512) 452-9424
Boston/(617) 890-0440
Chicago/(312) 298-1240
Cincinnati/(513) 481-2600
Cleveland/(216) 831-0550
Dallas/(214) 661-5536
Denver/(303) 770-3921
Des Moines/(515) 225-9070
Detroit/(313) 478-6070
Greensboro/(919) 299-8401
Hartford/(203) 677-4551
Houston/(713) 688-5791
Kansas City/(913) 321-5802
Los Angeles/(213) 645-5400
Milwaukee/(414) 453-1425
Minneapolis/(612) 854-4054
New Orleans/(504) 522-5457
New York/(212) 736-3710
Orlando/(305) 896-1940
Philadelphia/(215) 667-9477
Phoenix/(602) 265-3909
Pittsburgh/(412) 931-3663
Portland/(503) 223-2411
Puerto Rico/(809) 783-5320
Salt Lake City/(801) 487-8201
San Diego/(714) 460-2020
San Francisco/(415) 968-7020
Seattle/(206) 455-2044
St. Louis/(314) 878-6595
Stamford/(203) 359-4175
Tulsa/(918) 664-2295
Union/(201) 964-8761
Washington, D. C. /(703) 790-0555

INTERNATIONAL:
Australia/Sydney/(2) 922-3100
Austria/Vienna/0222/36 21 41
Belgium/Brussels/3762030
Brazil/Rio de Janeiro/222-4611
Canada/Toronto/(416) 438-9800
Denmark/Copenhagen/(02) 96 53 66
Ecuador/Guayaquil/394 844
England/London/(1) 903-6261
Finland/Helsinki/(90) 661-991
France/Paris/(1) 657-13-31
Germany/Hannover/(0511) 634-011
Holland/Amsterdam/(10) 216244
Hong Kong/(5) 243-121
Iran/Tehran/8538857
Israel/Tel-Aviv/(03) 410565
Italy/Milan/316 333
Japan/Tokyo/(03) 6131
Lebanon/Beirut/(348) 340/1/2
Malaysia/Kuala Lumpur/73901
Norway/Oslo/153490
The Philippines/Makati Rizal/877 294
Singapore/Singapore/911788
South Africa/Johannesburg/724-9301
Spain/Las Arenas/63 64 00
Sweden/Stockholm/(08) 188295
Switzerland/Lyss Berne/(32) 844240
Taiwan/Taipei/768-1114
USA/Los Angeles, Calif./(213) 475-6777

DATAPoint CORPORATION

The text in this catalog was entered, edited and typeset using a Datapoint 2200 with a phototypesetter and the Scribe Text Processing Program.