

## Xerox 1700/1710 Communications Terminals

The Xerox 1700 and 1710 Communications Terminals are desktop, microprocessor-driven data communications stations that provide reliable and economical operation coupled with a high degree of versatility. The 1700 Keyboard/Printer offers timesharing users text processing and APL capabilities on one ASCII-compatible unit, while the 1710 provides output printing from remote sources or local storage devices such as CRT displays. Both units provide print quality unsurpassed by other devices in their speed and price range. The Xerox 1700/1710 feature excellent reliability and quiet operation, even at sustained high printing speeds. The terminal can be used in the scientific or administrative environment, fitting into the style and decor of the office.

The Xerox 1700/1710 utilize the Diablo HyType II printing mechanism with interchangeable printwheels in a wide variety of type fonts, replaceable ribbon cartridges, and servo-controlled character selection and carriage positioning. Horizontal spacing is switch-selectable to 10 or 12 pitch, with vertical spacing of 6 lines per inch. The horizontal and vertical spacing may be adjusted by small increments; these adjustments may be made through the communications line for all machines, and they may also be made locally through the keyboard on the 1700. This allows very fine adjustment to be made in complex text preparation applications, allows the user to draw charts and graphs directly, and reduces the need for special output devices. Scientific notation (subscripts



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and superscripts) can be easily implemented through half-line spacing during character-mode operations.

The maximum print speed of 45 characters per second from the input buffer does away with the need for blank padding characters, even after gross movements such as Carriage Return or Top Of Form. The device may be programmed to print forward and backward, eliminating unnecessary carriage movement. Another standard feature is high-speed horizontal and vertical tabulation. Multiple movement characters, such as a carriage return followed by several spaces, are automatically combined so that a single motion is required rather than multiple motions. These features make the effective print speed significantly higher than other terminals nominally rated at 30 characters per second.

The *Form Length* and *Top-Of-Form* controls on the 1700 and 1710 facilitate working with forms of varying size throughout the day; the user may change forms at will and simply redefine their size by switch settings. Additionally, pin feed platens and adjustable forms tractors

are available for maintaining document registration when using edge-perforated forms.

The Xerox 1700 Terminal is furnished with a full ASCII-compatible keyboard, with typewriter-style character placement. It uses Hall-effect key coupling and n-key rollover, resulting in maximum reliability. The keyboard has a standard alpha-numeric section, a numeric pad on the right, and control keys left of and above the standard keyboard section. Additional controls are located under the front access cover of the machine. The keyboard features sculptured and angled keytops, allowing the operator to make an easy transition from typewriter to terminal. When the APL printwheel is used, the APL characters are in industry-standard locations on the keyboard.

Communication with another remote terminal or host computer is over telephone lines and a pair of modems. The equipment is compatible with Western Electric 103A or 113A data sets, and with many manufacturers' acoustic couplers.



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**Controls**

LOCAL	Connects keyboard output directly to printer (1700 only) for off-line typing	SPEED	Selects 10, 15, or 30 characters per second line speeds (when the optional 1200 baud speed is enabled, the SPEED switch is disabled)
UC ONLY	Converts all keyboard-generated alphabetic characters to upper case prior to transmission (KSR-33/35 mode)	SPACING	Selects 10 or 12 pitch (characters per inch horizontally), which give 132 or 158 characters per full line, respectively
RESET	Resets all error conditions and indicators	AUTO LF	When ON, automatically generates a LF character for the printer when a CR is received
FORM FEED	Advances paper to next logical top-of-form	PARITY	Selects Even or Odd parity generation and checking, or Mark (incoming parity not checked, outgoing parity bits always 1's)
SET TOF	Establishes logical top-of-form at current paper position	DUPLEX	Selects Full or Half duplex operation
SCROLL	When ON, moves page up (to allow clear view of typed line) after a short delay in receiving characters, then moves page down again when characters arrive for printing	CLEAR	Provides a general terminal reset
FORM LENGTH	Establishes length of form to be used by the terminal's processor; sizes available are 1 line, 3, 3.5, 4, 5.5, 6, 7, 8, 8.5, 11, 12, and 14 inches.	INTENSITY	Provides operator selection of high, medium, or low print hammer intensity



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## Standard Features

### KEYBOARD (1700 ONLY)

- Generates all 128 ASCII characters
- Typewriter-paired — all punctuation is in the standard office typewriter locations
- N-Key rollover
- Numeric pad with comma, minus sign, decimal/period, tab, and space keys
- Repeat under Space bar

### PRINTER

- Prints all 94 ASCII characters
- Prints forward and backward, with bi-directional paper feed
- Automatic motion minimization
- Plot mode provides 1/60" horizontal spacing, 1/48" vertical spacing
- Horizontal spacing is adjustable in 1/120" increments per character; Vertical spacing is adjustable in 1/48" increments per line.
- Broad selection of over 20 printwheels in 10 and 12 pitch; Ribbon cartridges available with black or red/black cloth and black carbon film ribbons
- Paper-Out feature checks for feed paper presence when Forms Tractor or Pin-Feed Platen is in use; ASCII BREAK is sent to remote system if no-paper condition is detected.

## COMMUNICATIONS

- Speeds — 110, 150, and 300 baud (1200 baud is available; 1200 baud installation disables all slower speeds)
- Send buffer — 8 characters
- Receive buffer — 158 characters
- Interchange protocol may be used to guarantee fully-buffered receive
- Error detection for modem, printer, parity, overrun, or framing errors — noted by error light and audible alarm
- Interface is by EIA Standard RS-232C, through a 25-pin connector

## PHYSICAL DIMENSIONS

### Xerox 1700

Keyboard/Printer	
Height	8.25 Inches
Width	23.25 Inches
Depth	20.3 Inches
Weight	48 Pounds

### Xerox 1710

Receive-Only Printer	
Height	8.25 Inches
Width	23.25 Inches
Depth	15.7 Inches
Weight	43 Pounds

