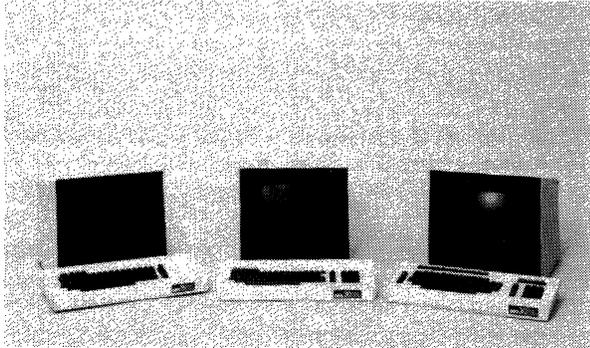


# Computer Peripheral COPS Family Display Terminals



The COPS 15, 20, and 30 (left to right) differ only in keyboard arrangement. All terminals provide the same functions.

## MANAGEMENT SUMMARY

Computer Peripheral's COPS family of high-performance, economy display terminals are equipped with a Micro Technology 6400 microprocessor and feature a 12-inch CRT screen and separate keyboard, although integral keyboards are available. Except for keyboard arrangement, all models have the same physical appearance and weigh only 35 pounds.

Surprisingly, all terminal models feature an identical set of firmware-implemented functions. The "key" difference among models is the keyboard arrangement, which also reflects the difference in cost between models. Keyboards range from a "bare-bones" arrangement to one with a numeric pad, 12 program function keys, and all terminal functions identified by individual keys. The complete set of terminal functions can be initiated via any keyboard model by a single key depression where the function is identified by a single key or by multiple key depressions where it is not. All terminal functions can also be initiated via received control codes and control code sequences, which can override operator-introduced transmission parameters.

Each of the terminals are equipped to accommodate an external serial printer via a switched interface. A buffered printer interface is a feature of the COPS 30.

Computer Peripheral's approach to the display terminal market is emulation. Currently, Computer Peripheral Corp. offers ROM- or PROM-resident emulators for Lear Siegler ADM-1 or ADM-2, Hazeltine 2000, and DEC VT50 and VT52. Emulators for ADDS and Burroughs terminals are in development, and the company expects to have 12 emulator programs that emulate terminals of prominent vendors by the end of 1977.

Salient features of the COPS family terminals include:

- A 1920-character screen.



An economy family of Teletype-compatible display terminals.

Standard features include full cursor control, complete edit functions, format protection, tabulation, cursor sensing and addressing, highlighting, 128 display symbols, switch-selectable data rates up to 19,200 bps, a print buffer, etc.

Purchase prices (list) range from \$1,350 to \$1,750. OEM and end-user discounts are available, as are full payout leases.

## CHARACTERISTICS

**VENDOR:** Computer Peripheral Corporation, 1225 Connecticut Avenue, Bridgeport, Connecticut 06607. Telephone (203) 333-8339.

**DATE OF ANNOUNCEMENT:** October 1977.

**DATE OF FIRST DELIVERY:** September 1977.

**NUMBER DELIVERED TO DATE:** 500.

**SERVICED BY:** Nationwide service organizations.

## MODELS

The stand-alone, microprocessor-based display terminal is available in three models that differ in keyboard arrangement only:

- COPS 15—contains a basic 63-key ASCII keyboard with separate cursor controls.
- COPS 20—contains the same basic key arrangement as the COPS 15, but also includes a dual-function, 12-key numeric/function keypad.
- COPS 30—contains an expanded keyboard with 12 Program Function keys, a 12-key numeric pad, 4 separate cursor control keys, and individual function keys.

## TRANSMISSION SPECIFICATIONS

Transmission is asynchronous in the half- or full-duplex mode at 9 switch-selectable speeds including 110, 300, 600, 1200, 1800, 2400, 4800, 1600, and 19,200 bits/second. The 10- or 11-unit, 8-level ASCII code is used. Odd or even parity, a mark, or space is selectable. The terminal is equipped with an RS-232C and 20 ma dc current loop interface.

## DEVICE CONTROL

Terminal control is performed by a Micro Technology 6400 under the direction of a ROM- or PROM-resident operating program. The execution of all functions is initiated via keyed or received commands. All models perform the same functions, although keyboards differ. The primary difference is whether the function is initiated by a single key depression or by multiple key depressions; this is a function of the keyboard arrangement.



## Computer Peripheral COPS Family Display Terminals

- ▷ ● A set of 128 displayable symbols.
- Full cursor controls.
- Cursor sensing and addressing.
- Full editing capability.
- Tabulation.
- Format protection
- A dual-intensity display.
- Reverse video display.
- Keyboard lock and unlock.
- Switch-selectable transmission rates from 110 to 19,200 bps.

Computer Peripheral Corporation markets to other vendors, distributors, and manufacturers representatives as well as directly to large end users. Nationwide service is provided by prominent service organizations under contract to Computer Peripheral Corp. □

- ▶ Transmission can be performed in block or character modes. In the character mode, each character is transmitted as it is keyed. In the block mode, a line, message, or page (screen) can be transmitted.

The Format mode supports structured data entry via a fixed format, which can be displayed at reduced intensity.

Cursor control functions include up, down, left, right, and home. The cursor is also positioned by tab, return, line-feed, new line, space, backspace, and scroll functions. Cursor movement is repeatable when cursor key depression is sustained. Cursor sensing and addressing is a standard feature.

Edit functions include character, or line insert or delete and full or partial screen, line, or field erase.

Tab and backtab functions are provided. Tabulation can be performed between tab stops or between unprotected fields within a protected format.

Highlighting, established via attribute codes includes reverse video and full or reduced intensity. Audible alarm is also a standard feature.

### COMPONENTS

**CRT DISPLAY UNIT:** A 12-inch (diagonal measurement) CRT with a display arrangement of 24 lines of 80 characters each for a total display capacity of 1920 characters. Any of 128 ASCII characters are displayable. Each character is formed via a 7-by-9 dot matrix within a 10-by-12 dot character cell. Data is displayed in white. Highlighting includes reverse video and dual intensity. The cursor is displayed as a solid block or blinking underscore.

**COPS 15 KEYBOARD:** A 68-key typewriter-style detachable keyboard including 4 separate cursor control keys (up, down, left, and right). Key functions include Line Feed, Return, Break, Clear Screen, Delete, Send Line/Page, Escape, Tab, CapLock, Local, Print Port, Block, Space, Shift, Control, and Shift Lock. The keyboard generates 128 ASCII character codes.

**COPS 20 KEYBOARD:** An 80-key typewriter-style detachable keyboard, with the same key arrangement as the COPS 15 keyboard, but includes a separate 12-key, dual-function numeric/function keypad. Functions include separate edit and erase functions plus a Home key. The keyboard generates 128 ASCII character codes.

**COPS 30 KEYBOARD:** A 104-key typewriter-style detachable keyboard including 4 separate cursor control keys (up, down, left, and right), a 12-key numeric pad, a row of 12 Program Function keys, and 28 separate function control keys. Key functions include Line Feed, Return, Break, Rub Out, Clear Screen, Home, Escape, Tab, Local, Print Port, Cap Lock, Block, Scroll, New Line, Char. Insert, Char. Delete, Line Insert, Line Delete, Clear EOL, Clear EOS, Send, Send Line, Send Message, Print, Shift, Shift Lock, Control, and Space. The keyboard generates 128 ASCII character codes.

### PRICING

The COPS series display terminals are available for purchase or on a one-, two-, three-, or five-year lease. Full payout leases are provided for two, three, and five years. A separate maintenance contract is available for leased or purchased units. Maintenance is priced at \$25 per month per terminal. There are no installation charges, because CPC does not install terminals; this is left to the user.

Quantity OEM Purchase Prices

	1-4 Units	5-10 Units	11-25 Units	26-50 Units	51-100 Units	101-500 Units
COPS 15	1,350	1,125	1,095	1,050	1,030	950
COPS 20	1,425	1,175	1,145	1,100	1,080	995
COPS 30	1,750	1,425	1,395	1,350	1,330	1,225

\* Distributor price to customers.

Monthly Charge\*

	1-Year Lease	2-Year Lease	3-Year Lease	5-Year Lease
COPS 15	\$103	\$82	\$66	\$54
COPS 20	105	84	68	55
COPS 30	113	97	77	61

\* Includes \$25 monthly maintenance. ■