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*OEM quantity price. Model VP-3301 (video/audio output).

RCA

CIRCLE 108 ON INQUIRY CARD

colors for their blue, red, and green components, as well as for hue, brightness, and saturation. More than 16M color choices are available; a max of 16 colors can be displayed at one time. Software functions include draw, chart, script, playback, library, and output. Optional peripherals include a color dot matrix printer and 2 models of film recorders capable of exposing film for producing slides and prints, 8 x 10 Polaroid[®] color prints, and 8 x 10 color transparencies. **Datapoint Corp.**, 9725 Datapoint Dr, San Antonio, TX 78284.

Circle 269 on Inquiry Card

1M-byte memory mapping capability

TM990/102 single-board computer features 128k-bytes onboard memory with extended addressing memory mapped to 1M byte. The CPU includes power-up reset logic to delay a reset until power stabilizes after switch-on, and load after reset logic to automatically branch to the load vector and boot software. Module supports up to 16 prioritized interrupts from the system bus and capability to support onboard prioritized interrupt from the EIA port driver. Unit is offered in 3 versions—without onboard dynamic RAM, with 64k-bytes RAM, and with 128k-bytes RAM. Onboard RAM runs with zero wait states when accessed by the processor. All 3 versions can address up to 16k bytes of onboard EPROM. TM990/404 monitor is available to support debugging in extended addressing mode and is capable of expanding the command table by using the monitor's command scanner. **Texas Instruments Inc.**, PO Box 202129, Dallas, TX 75220.

Circle 270 on Inquiry Card

Single-board computer offered for battery based operation

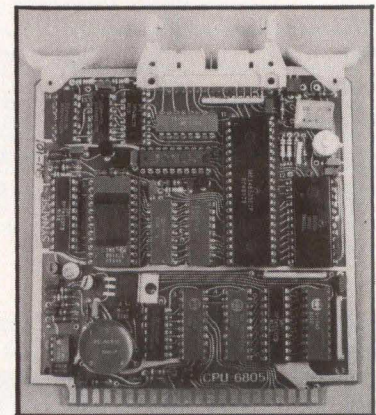
CPU-6805 CMOS single-board computer is based on the 146805E2 CMOS CPU and designed specifically for battery based operation. The 4.5" x 5.25" (11.4- x 13.34-cm) board contains 1k byte of RAM, 8 lines of digital I/O, 8 analog inputs, a power switched EPROM, a realtime clock, and a switching voltage regulator. It has full C-44 bus compatibility using high speed CMOS buffer chips to access up to 128 offboard ports and 32k of offboard memory.

A powerful, controller oriented CMOS microcomputer with onboard RAM and ports, the computer's 146805E2 CPU uses a multiplexed data and address bus, making it compatible with National Semiconductor's NSC-810 and -831. A

total of 1186 bytes of RAM are available on the board, including 1024 bytes in a pair of 6514s, 112 bytes in the CPU, and 50 bytes in the realtime clock. A power switched 2716 EPROM is used for program storage, giving the advantage of zero quiescent power from an inexpensive, readily available part.

The computer has 2 low power modes derived from the wait and stop modes of the CPU. In the wait mode, the processor's bus accesses are halted, but its clock is maintained, reducing the board's power consumption to approx 6 mW. The board can be awakened from the wait mode by an interrupt from its timer, an external interrupt, or a reset. A stop instruction causes the CPU to stop its oscillator; a circuit on the board senses the stopped oscillator and reduces the board's supply voltage to approx 2.8 V. In this mode, the board's power consumption is typically less than 0.5 mW. The stop mode is exited when either an external interrupt or a reset is applied. Recovery from the stop mode typically takes 5 ms.

The 146818 realtime clock used on the board can be programmed to provide interrupts at intervals as short as 3.2 ms, or as long as once a day. These interrupts can be used to wake the computer from its low power modes. **Synapse Corp.**, 199 Main St, N Falmouth, MA 02556.



Circle 271 on Inquiry Card

High end version of PDP-11/23 microcomputer addresses up to 1M byte of memory

PDP-11/23 PLUS, a high end version of the PDP-11/23 microcomputer with up to 1M byte of memory, features memory expansion capabilities not available in the std PDP-11/23 packaged processor, as well as extended addressing. Fully software compatible with PDP-11 midrange minicomputers, the processor features