

## Digital Circuits

### One chip interfaces $\mu$ P to IEEE-488 bus

Texas Instruments, P.O. Box 1444,  
Houston, TX 77001. (713) 494-5115.  
\$25.60 (100 qty).

A single chip, TMS9914, interfaces a microprocessor to a bus while maintaining IEEE-488-1978 protocol. The chip has talker, listener and controller capabilities and relieves its associated microprocessor from interface functions. The circuit is intended for use with the SN75160 and SN75161 data bus transceivers. Supply-voltage requirement is 5 V. The adapter is rated for operation from 0 to 70 °C.

CIRCLE NO. 360

### 32-bit up-counter reads out in sequence

LSI Computer Systems, 1235 Walt Whitman Rd., Melville, NY 11747. (516) 271-0400. \$5.05 (1000 qty).

A 32-bit binary up-counter, LS7060, can be cascaded to read out information in successive bytes. Each scan pulse enables the next data byte. The device contains 32 latches, a multiplexer and eight, three-state outputs. Information is presented in 8-bit binary bits at clock rates to 1 MHz. The least significant byte is presented first. The NMOS silicon-gate chip comes in an 18-pin package. Inputs are TTL, CMOS and NMOS compatible. The outputs are TTL compatible.

CIRCLE NO. 361

### 16-k bipolar PROMs upgrade 8-k systems

Intel, 3065 Bowers Ave., Santa Clara, CA 95051. (408) 987-8080. P&A: See text.

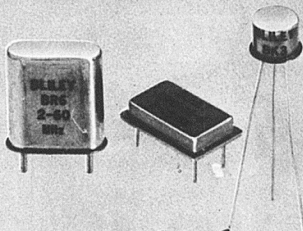
Because of their low power dissipation (typically 0.05 mW/bit), 3636 series 16-k, bipolar PROMs can be used as double-density replacements for low-power 8-k devices. The 16-k devices are organized as  $2\text{-k} \times 8$ . The 3636 features an access time of 80 ns; 3636-1, 65 ns. A military version, M3636, offers a worst-case access time of 80 ns over its -55 to 125-°C range. Three chip selects are provided to facilitate expansion into larger PROM arrays. In quantities of 100, the 3636 is \$69.45; 3636-1, \$80.00; M3636, \$173.50.

CIRCLE NO. 362

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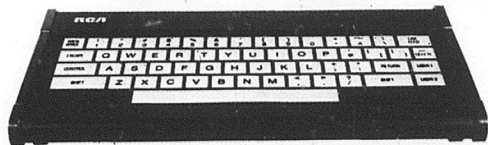
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CIRCLE NUMBER 84

## ASCII encoded keyboards as low as \$65\*



The RCA VP-601 keyboard has a 58 key typewriter format for alphanumeric entry. The VP-611 (\$15 additional\*) offers the same typewriter format plus an additional 16 key calculator type keypad.

Both keyboards feature modern flexible membrane key switches with contact life rated at greater than 5 million operations, plus two key rollover circuitry.

A finger positioning overlay combined with light positive activation key pressure gives good operator "feel", and an on-board tone generator gives aural key press feedback.

The unitized keyboard surface is spillproof and dustproof. This plus the high noise immunity of CMOS circuitry makes the VP-601 and VP-611 particularly suited for use in hostile environments.

The keyboards operate from a single 5 volt, DC power supply, and the buffered output is TTL compatible. For more information contact RCA VIP Marketing, New Holland Avenue, Lancaster, PA. Telephone (717) 291-5848.

# RCA

\*Optional user price. Dealer and OEM prices available.

CIRCLE NUMBER 85