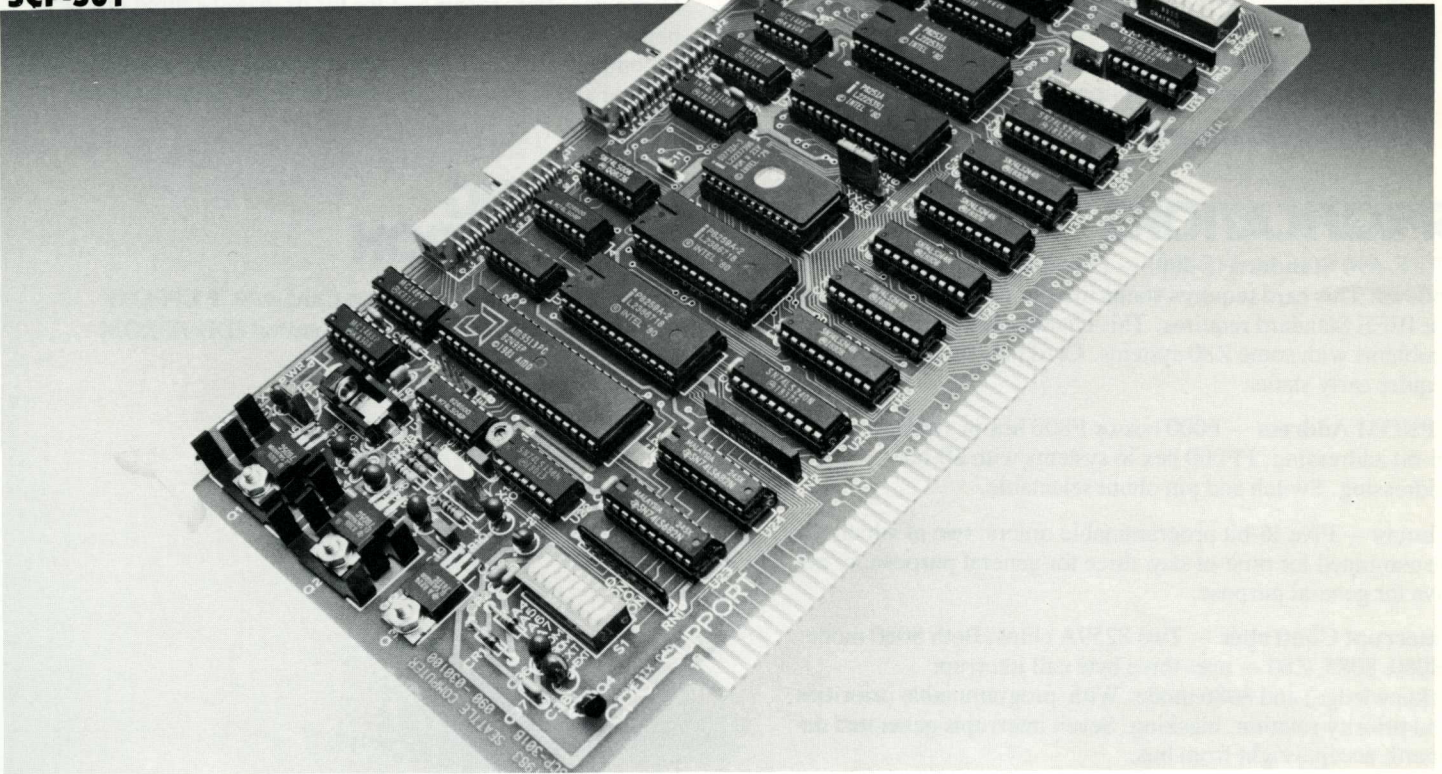


CPU SUPPORT CARD

SCP-301



In S-100 systems, the Seattle Computer CPU Support Card is an ideal companion board for Seattle Computer's 10 MHz 8086 CPU card. It can also be used with CPU cards from other manufacturers.

Since it combines several highly useful capabilities on a single S-100 card, system designers can save considerable amounts of design time.

The CPU Support Card includes two serial ports, a Centronics parallel port, five 16-bit timers (two of which may be used for a time-of-day clock), a vectored interrupt controller, and a socket for a 2716 or 2732 EPROM.

FEATURES

- Companion board to Seattle Computer 10MHz 8086 CPU. May also be used with other CPUs.
- Socket for optional EPROM. Can be either Intel type 2716 or 2732.
- Contains EPROM monitor for 8086. May be ordered without EPROM for other CPUs. Monitor is configured for Seattle Computer DiskMaster or Tarbell double-density floppy disk controller.
- Two serial communications ports. RS-232 drivers with full handshaking. Independently programmable baud rate generator for each port. Sixteen baud rates from 50 to 19200 baud.
- Centronics—
- Vectored interrupt controller. Provides 15 levels of vectored interrupt, expandable to 64 levels through "slave controllers." Complete interrupt support for 8080, 8085, Z-80, or 8086.



- Five 16-bit timers. Two may be combined for "time-of-day"; the others may be used to count days, time events, etc. Totally software programmable.
- Time-of-day clock. Time-of-day is kept in 24 hour format to 0.01 second. Power to run the clock may be supplied by an external source. May also be used as two general purpose 16-bit timers.
- Sense switch input port. Allows reading of 8-position DIP switch for setting software options.
- IEEE-696 Standard (S-100) Compatible.

SPECIFICATIONS

IEEE-696 Standard (S-100) — Fully meets standard except as follows: This card requires status lines to be valid earlier than the IEEE Standard requires. This characteristic may cause problems with some Z80 systems. Card may be modified to not require early status.

EPROM Address — F000 hex or F800 hex in systems with 16-bit addressing; FF000 hex in systems with 20-bit addressing. Switch and pin-shunt selectable.

Timers — Five 16-bit programmable timers, two of which may be combined for time-of-day, three for general purpose, or all five for general purpose.

Interrupt Controller — Two 8259A chips. Both 8080 mode (8080, 8085, Z80 — uses three byte call interrupt acknowledge) and 8086 mode. With programmable priorities and priority rotation, masking. Seven interrupts generated on board; accepts eight from bus.

I/O Parallel Port — 8-bit Centronics-compatible parallel output port.

I/O Serial Ports — Uses 8251A type chips. Two Rs-232 serial ports with individually programmable baud rates, from 50 to 19200 baud. For console I/O port, 8086 Monitor provides autoselection of 19200, 9600, 1200, 300, 150, or 110 baud.

Noise Margins — all signal inputs to the board have minimum of 0.4V hysteresis at 25°C.

Power Requirements — +8V at 1.0 Amp (including timer chip), +16V at less than 0.1 Amp, -16V at less than 0.1 Amp. Timer chip has separate power connections which may be either +8 or +5V at 0.2 Amp.

Reliability — This product has been in the field for approximately two years. Failure rates have been running less than 2% per year.

Operating Environment — 0°C to 70°C.

Limited Warranty Summary

When sold by Seattle Computer or through an authorized Seattle Computer dealer, this product is warranted to the end-user for a period of 90-days for both parts and labor. When sold to the end-user by an OEM, the warranty terms vary. Consult your OEM for specific warranty coverage. Seattle Computer offers repair service for its manufactured products beyond warranty coverage. This is a summary of the warranty. A complete warranty statement is printed in the product manual and is also available from Seattle Computer upon request.

ORDERING INFORMATION

Part No.: 030001 CPU Support Card w/SCP EPROM

Part No.: 030002 CPU Support Card w/TDD EPROM



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