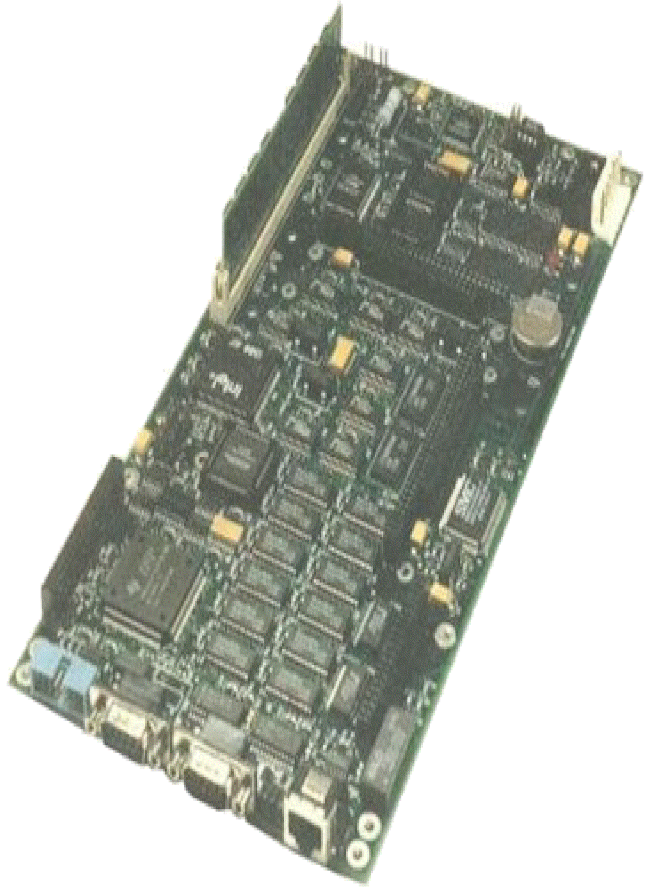




MERGING POWER & AFFORDABILITY – DSP & CHIPPC... CEX-32386-1

- Intel i386EX ChipPC 33mhz
- Texas Instruments TMS320C32 Floating Point DSP 60mhz
- FLASH EPROM expandable to 5MB
- Expandable to 1MB of Shared Memory SRAM
- DRAM for the i386EX, expandable to 32MB
- Zero-Wait-state SRAM for the TMS320C32 DSP, expandable to 1.5MB
- Dual 8/16 Bit PC/104 Bus Interfaces
- High Speed Serial Port
- RS-232 Serial Ports
- 10Base-T Twisted Pair RJ-45 Ethernet Port
- 32 Bit Stackable DSP Memory Mapped I/O Interface
- Battery Backed Real Time Clock
- LCD, Key pad & JTAG Interfaces



Concur System Technologies' CEX-32386-1™ single board computer merges digital signal processing of a 60MHz Texas Instruments TMS320C32 floating point DSP with the 33MHz Intel 386EX "Chip PC." The CEX-32386-1 includes 10BaseT Ethernet connectivity as well as a stackable data I/O memory mapped interface to the DSP for customer specific applications. The board is configurable with 4MB to 32MB DRAM SIMMs for the 386EX, and 128K to 1.5MB of 0-wait-state SRAM for the DSP. A 256KB to 1MB SRAM shared memory interface maximizes the performance of the inter-processor communications. 256KB to 5MB of Flash memory is also available for non-volatile program storage. The CEX-32386-1 has a LCD and keypad interface, battery backed real-time clock, two sets of PC/104 connectors, 2 RS232 serial ports, a high-speed serial port, emulator and JTAG ports. This product is an excellent fit for embedded applications such as data logging, medical monitoring, custom controllers, audio and network processing, internet and intranet interfaces or any application with both signal and general processing requirements.



SYSTEM TECHNOLOGIES, L.L.C.

2525 WALLINGWOOD DRIVE, SUITE 804 • AUSTIN, TX 78746-6926

(512) 306-0511 FAX (512) 306-0558

www.concursys.com



TECHNICAL SPECIFICATIONS

- CPU Type
 - Intel i386EX 33mhz

- DSP Type
 - Texas Instruments TMS320C32 Floating Point DSP 60mhz

- Memory
 - FLASH EPROM: 256K-5MB
 - DRAM for i386EX: 4MB-32MB SIMMS
 - SRAM for TMS320C32: 128K-1.5Meg
 - SRAM for Shared Memory Interface: 256K-1MB

- Bus Interface
 - Dual 8/16 Bit PC/104
 - 32 Bit Stackable DSP Interface

- I/O
 - 1 10Base-T Twisted Pair RJ-45 Ethernet Port
 - 2 RS232 Serial Ports for the i386EX
 - High Speed Serial Port for the TMS320C32 DSP
 - 1 14 Pin LCD Interface
 - 1 8x8 Keypad Interface
 - 1 JTAG Interface to the i386EX
 - 1 Emulator Interface to the TMS320C32
 - 1 Optical Interface Port

- Clock/Calendar
 - Real Time Clock with Battery Backup

- Operating Temperature
 - 0 to 55C (C)
 - -20 to 70C (I)

- Storage Temperature
 - -55 to 125 C

- Noncondensing Relative Humidity
 - 5% to 95%

- Supply Voltage
 - Vcc = +5V +/-5%
 - +/-12V +/-5%

- Supply Current
 - ICC @5V 2A (Nominal)
 - @+12V 1A @-12V 0.5A (for PC/104) (Max)

- Board Dimensions
 - 11" x 5" x 1.375" (278.4mm x 127mm x 34.9mm)

- Board Weight
 - 11 oz. (312 g)

