8840 SINGLE BOARD PROCESSOR

OVERVIEW

The VMAX 8840, is an XT single board computer with solid state disk emulation, as well as serial/parallel port capabilities. The 8840's integral solid state disks(s) utilize up to 1Meg of non-volatile memory. The disk access is many times faster than hard drive access and the disk may be bootable. Up to 2 drives may be emulated. Completely MS/DOS compatible, the 8840 can be used in conjunction with floppy and hard disks as needed. The WatchDog Timer resets the card in the event your application software should stop executing. The 8840 plugs into any ISA 8 or 16 bit passive PC Bus backplane, creating a state of the art personal or industrial computing system. As opposed to using a standard mother board, the new 8840 simplifies upgrades and repairs by being quick and easy to install and remove. The VMAX 8840 is ideal for applications which cannot tolerate rotating media storage. It may serve as a single board computer or as a system accelerator for diverse applications.

FEATURES

- **FAST** 8088 Turbo XT 10MHz or 4.77MHz Processor / 10MHz or 4.77MHz Bus Speed
- **SOLID STATE DISK** Emulates up to 2 Floppy Drives 1Meg total storage capacity, FLASH and OTP PROM
- **100% DOS COMPATIBLE**
- **COMMUNICATIONS**2 Serial Ports, 1 Parallel Port
- **COMPACT** 4.2" x 6.7" / Surface Mount / PC/XT Bus
- **SOFTWARE INCLUDED**for user defined port assignments, solid state disk handling and EMM
- **TEMPERATURE**operation over a wide range
- **NO SWITCHES**64K fully compatible ROM BIOS with automatic configuration
- **STRONG**six layer design with internal power and ground planes
- **30 Day Money Back Guarantee**
- **One Year Warranty / Made in the U.S.A**

TECHNICAL SPECIFICATIONS

- **VOLTAGE** Requirements
  +5 Volts @ 650 mA
  +12V @ 25mA (-12V for RS232 generated on board)
  - Total consumption less than 3.6 watts
- **OPERATING TEMPERATURE**
  -Operating 0 to 60 Degrees C (32 to 140 F)
  -Non-operating -40 to 85 Degrees C (-40 to 185 F)
- **RELATIVE HUMIDITY**
  5-95%, Non-Condensing
- BOARD Construction
  -6 Layer
  -Power and Ground Plane
- **PHYSICAL SIZE**
  4.2 x 6.7 inches
  .75 inches thick
- **EXTERNAL CONNECTIONS**
  0.1" connector headers for
  - Keyboard
  - Remote Reset
  - Speaker

- - 2 Serial Ports
  - - 1 Parallel Port
- **STANDARD XT RESOURCES**
  - - 3 Timer Channels
  - - 8 Vectored Interrupts
  - - 4 DMA Channels
- **PROCESSOR**
  - - CMOS NEC V20/8088 Turbo XT
  - - 8 Bit microprocessor operating at 10MHz
  - - ISA Bus operating at 4.77MHz or 10MHz
  - - Speed Index 4.0 (Norton SI v4.5) relative to 4.77MHz PC
- **COMMUNICATIONS**
  - - Serial Ports 1 and 2 support RS232
  - - Communication BAUD Rate from 50 to 56,000
  - - Parallel Port (Centronics compatible)
- **DISK DRIVE(S)**
  - - Supports 2 Floppy Disk Drives / 360K, 720K
  - - Capable of supporting 2 Solid State Disk Drives (3 configurations available, inquire about custom variations)
  - Drive 1 consists of up to 1Meg (FLASH/OTP PROM)
  - Drive 1 consists of up to 512K (FLASH/OTP PROM)
  - Drive 2 consists of up to 512K (FLASH/OTP PROM)
  - Drive 1 consists of up to 256K (FLASH/OTP PROM)
  - Drive 2 consists of up to 768K (FLASH/OTP PROM)
- **DRAM**
  - - Standard Inline Memory Modules
  - - 1Meg and 2Meg options
- **ROM BIOS**
  - - Auto Configuration
  - **- 64K EPROM**
  - - Supports Low Density Floppy
  - - Drives (inquire about High Density support)
- **WATCHDOG TIMER**
  - - Resets after 1.2 seconds when enabled
- **REAL TIME CLOCK** (optional)
- **WAIT STATES**
  - - Software selectable

ORDERING INFORMATION

When ordering, please specify the following information

```
Description is: Half card/XT CPU with Flash Part number is: VMAX® 8840-*
```

* Specify 1MB to 2MB DRAM FLASH 256KB to 1MB PLCC

Tempustech, Inc. accepts Visa, Mastercard anet Net 30 for applicants that qualify for credit terms.

Tempustech, Inc.
295 Airport Road
Naples, Florida 34104
Voice: 800-634-0701
Fax:941-643-4981
cpusales@tempustech.com