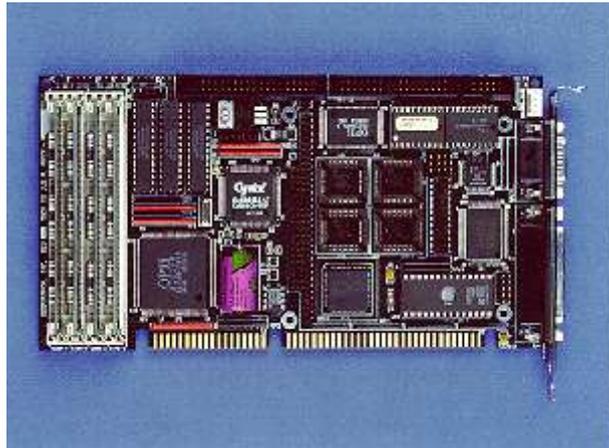


## 301 SINGLE CARD COMPUTER



---

### OVERVIEW

The VMAX® 301 is a half sized, low cost CPU card. Its Plus 5V only operation and low power usage make it ideal for power critical applications. With the capability of up to 16M of DRAM and a PC104 port, the VMAX® 301 can be expanded to handle even the largest of tasks. The model 301 includes all of the popular peripheral functions found on high priced cards.

Standard features on a Model 301 include a dual floppy disk controller, an IDE type fixed disk controller, 2.5M solid state disk, 2 RS-232 serial ports, and a bi-directional parallel port.

Using standard 9-bit SIMMs allows the VMAX® 301 to hold up to 16M of high speed DRAM main memory. The compact size (XT height), makes the 301 a solid platform for expansive design capabilities.

---

### FEATURES

- FAST 486SXLC 2/66MHz Microprocessor
  - COMPLETE PERIPHERAL SET
    - IDE Hard Drive Controller Interface
    - Dual Floppy Disk Controller (720K / 1.4M / 360K / 1.2M)
    - One Bi-directional Parallel Printer Port
    - On-board Keyboard Controller
    - Battery Backed Real Time Clock/Calendar
  - DRAM to 16M
  - Optional Cache to 64K
  - SOLID STATE DISK Emulates up to 2 disk drives with 2.5M total storage capacity, FLASH and SRAM
  - 100% DOS COMPATIBLE PC/AT ISA Bus
  - TEMP. 0 - 70 C Operating Temperature
  - COMPACT sized (XT height) 7.9" x 4.2"
  - PC 104 EXPANSION PORT
  - SOFTWARE INCLUDED for Solid State Disk
  - STAND ALONE 4 mounting holes & power connector on-board
  - Low Cost
  - One Year Warranty / 30-Day Money Back
  - Made in the U.S.A
-

## **TECHNICAL SPECIFICATIONS**

- **VOLTAGE REQUIREMENTS**
  - Plus 5 Volts, Plus/Minus 5% @ 1.65 Amps Fully loaded (4M bytes memory) (Maximum)
- **OPERATING ENVIRONMENT**
  - 0-70 degrees C 0% - 95% RH Non-condensing
- **PHYSICAL SIZE**
  - Physical Size 1/2 card 7.9" x 4.2" 200mm x 106mm
- **REAL TIME CLOCK/Calendar** with battery back-up, external battery connector is provided
- **EXTERNAL CONNECTIONS 0.1" Connector headers for:**
  - Parallel Port
  - IDE Control
  - Floppy Control
  - Serial A
  - Serial B
  - Power
  - Keyboard
  - External Battery
  - Reset Switch
  - Speaker
- **BATTERY LIFE**
  - 10 years
- **LOW VOLTAGE detection** resets system when voltage drops to 4.50 volts or less
- **PROCESSOR**
  - 486SXLC 2/66 microprocessor
  - Operation at 66MHz
  - 16-Bit ISA Bus
- **COMMUNICATION**
  - Serial Ports A and B support RS232
  - Can be configured as COM1/COM2 or disabled individually
  - Communication Baud rate from 50 to 56,000
  - Parallel Port configured as LPT1, LPT2, LPT3 or disabled
  - Parallel Port Bi-directional or supports parallel printers
- **DISK DRIVE(S)**
  - Supports 2 IDE Hard Drives
  - Supports 2 Floppy Disk Drives / 360K, 720K, 1.2Meg, 1.44Meg (size options)
  - Capable of supporting 2 Solid State Disk Drives (2 configurations)
  - Drive 1: to 2Meg FLASH/OTP device(s)
  - Drive 2: 128K or 512K SRAM device
  - OR Drive 1: to 1.5Meg FLASH/OTP device(s)
  - Drive 2: .5Meg FLASH/OTP device
  - Solid State Disk total storage capacity of 2.5M maximum
- **DRAM**
  - Up to 16Meg using four 30 pin SIMM sockets
  - Memory Modules available - 256K, 1M, 4M
  - Provides memory options from 512K to 16M
- **MEMORY MANAGEMENT**
  - Supports Shadow RAM of SYSTEM and VIDEO BIOS
  - Supports Expanded Memory Management (EMM)
  - Supports Memory Re-mapping

- **EXPANSION PORT**

- Industry standard PC104 port allows connection of daughter boards for additional I/O

---

## **ORDERING INFORMATION**

*When ordering, please specify the following information:*

Part Number is: VMAX® 301 Description is: Compact 486 Single Board Computer

*\*Specify:*

*FLASH, 128kb/512kb*

*EPROM, 64KB/128KB/512KB*

*SRAM, 32KB/128KB/512KB*

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

**1996 Tempustech, Inc. All rights reserved. Specifications subject to change without notice. IBM PC/XT/AT are registered trademarks of the International Business Machines Corporation.**

*Tempustech, Inc.*

*295 Airport Road*

*Naples, Florida 34104*

*Voice: 800-634-0701*

*Fax: 941-643-4981*

*[cpusales@tempustech.com](mailto:cpusales@tempustech.com)*

**[HOME](#)**