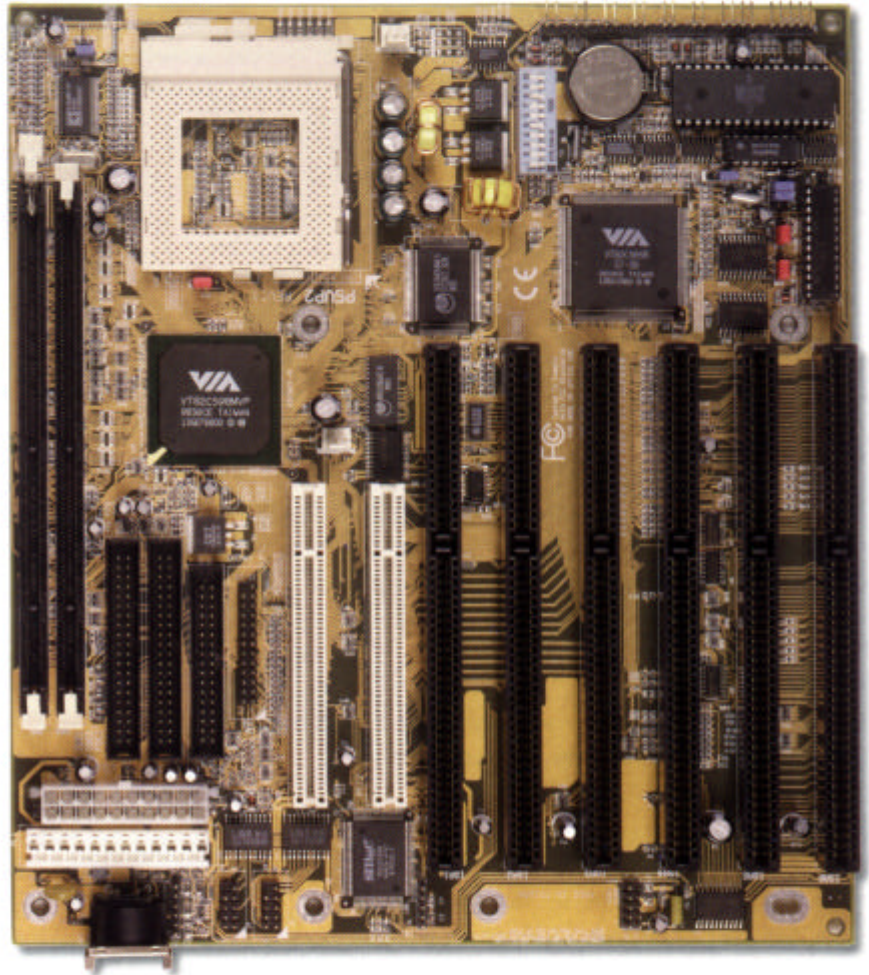


# G7VP2™

## INDUSTRIAL PC MOTHERBOARD

The G7VP2 combines the power of the Intel Pentium® MMX processor, or the latest high speed "Socket 7" processors from other major CPU vendors, with the ability to support up to seven expansion cards on an industry standard Baby AT format motherboard. This versatile board will accept up to six full-length ISA cards and is an ideal alternative to expensive passive backplane system architectures. In addition, it offers many features designed specifically for industrial applications.

One of the most important qualities of the G7VP2 is that it is produced under strict revision control guidelines to provide a long and stable product life cycle. This makes it ideal for computer telephony, industrial control, medical instrumentation and other application environments where extensive testing or certification of the system is required. ITOX revision controlled motherboards reduce your long-term costs for system testing, certification and maintenance.



### Features:

- Long and stable product life cycle
- 7 expansion slots; supports up to 6 full-length ISA cards
- Supports Pentium MMX and Super Socket 7 processors
- Baby AT industry standard form factor
- 100 MHz front side bus
- Watchdog timer
- Monitors fan speed, processor temperature, and power supply voltages
- High quality, long life components
- ISO 9002 certified manufacturing process





## PROCESSOR

- Intel Pentium® processor with MMX™ technology-166/200/233MHz
- Cyrix® 6x86MX-PR200/PR233/PR266 and M II-300/333/350/400
- IBM® 6x86MX-PR200/PR233/PR266/PR300/PR333
- AMD® K6-200/233/266/300 and K6-2/250/266/300/333/350/380/400
- IDT® C6-180/200/225/240 and WINCHIP2-200/225/240/266/300

## CHIPSET

- VIA® Apollo 598MVP system chipset

## CACHE MEMORY

- 512KB pipeline burst, direct map write-back cache installed on the system board

## SYSTEM MEMORY

- 8MB to 256MB memory using unbuffered DIMMs
- Two 168-pin DIMM sockets using x64 SDRAM, 3.3V
- PC-100 SDRAM DIMM for 100MHz external system bus clock processors

## BIOS

- Award BIOS, Windows® 95 Plug and Play compatible
- Flash EPROM for easy BIOS upgrades
- Supports DMI function

## ENERGY-EFFICIENT DESIGN

- RTC timer to power-on the system
- System power management supported
- CPU stopped clock control
- Hardware supports SMI green mode
- Microsoft®/Intel® APM 1.2 compliant

## DAMAGE-FREE INTELLIGENCE

- Monitors processor temperature and overheat alarm
- Monitors 3.3V/5V/12V voltages and failure alarm
- Monitors processor/chassis fan speed and failure alarm
- Automatic processor fan control to save energy, prevent system overheat, prolong fan life and implement silent system
- Three types of sound for different failure alarms
- Read back capability that displays accurate temperature, voltage and fan speed

## PCI IDE INTERFACE

- Ultra DMA/33 supported (Synchronous DMA mode – data transfer rate up to a maximum of 33MB/sec.)
- PIO Mode 3 and Mode 4 Enhanced IDE (data transfer rate up to 16.6MB/sec.)
- Bus mastering reduces CPU utilization during disk transfer
- ATAPI CD-ROM, LS-120 and ZIP supported

## INTEGRATED I/O

- Ultra I/O controller
- Two NS16C550A-compatible high speed UARTs
- One SPP/ECP/EPP parallel port
- Supports up to 2.88MB floppy drives

## PROCESSOR SOCKET

- 321-pin ZIF socket (Socket 7)
- Equipped with a switching voltage regulator

## CONNECTORS

- 2 connectors for external USB ports
- 1 connector for IrDA interface
- 2 serial ports
- 1 parallel port
- 2 IDE connectors
- 1 floppy connector
- 1 PS/2 mouse port
- 1 PS/2 or AT keyboard port
- 1 12-pin standard AT power supply connector
- 1 20-pin ATX power supply connector

## EXPANSION SLOTS (5-1-1)

- 5 dedicated 16-bit ISA slots
- 1 shared ISA/PCI slot
- 1 dedicated PCI slot

## CIRCUIT BOARD

- 4 layers, Baby AT form factor
- 25 cm (9.84") x 22 cm (8.66")

## SPECIAL FEATURES

- Watchdog timer  
8-step counter (0.5/1/2/4/8/16/32/64 sec.)
- ATX power-on methods:  
Edge trigger or level trigger mode

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