

ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

All trademarks, brand names, and brands appearing herein are the property of their respective owners.

Visit our website - *Click HERE*

VMIPC4-7301
Low Power X86-Based Embedded Controller with PC/104-Plus

- Low power Geode GX1-based single board computer (SBC) with PC/104-*Plus* expansion
  - — Proven 32-bit processor architecture
  - — Less than 10 W total power dissipation
  - — Compact SBC, ideal for embedded applications
- Standard features include:
  - — SBC speeds to 333 MHz
  - — Up to 256 MB PC133 SDRAM
  - — Integrated 2D graphics (16 bpp at 1,280 x 1,024)
  - — On-board Fast Ethernet controller supporting 10BaseT and 100BaseTX interfaces
  - — On-board Ultra DMA/33 IDE and floppy drive interfaces
  - — On-board CompactFlash/MicroDrive socket (up to 192 Mbyte CompactFlash or up to 1 GB MicroDrive)
  - — Two high-performance 16550-compatible serial ports
  - — Enhanced parallel printer port with ECP/EPP
  - — Two USB ports
  - — PS/2-style keyboard and mouse
  - — Expansion through PC/104-*Plus*
  - — Passive heat sink
- Real-time features:
  - — Watchdog timer
  - — Three 16-bit user programmable timers
  - — 32 KB of nonvolatile SRAM
  - — Real-time clock

Operating System Support

- Windows NT®/Windows® 2000/Windows XP
- Linux®
- VxWorks®

MICROPROCESSOR — The VMIPC4-7301 brings X86-based MMX™ class performance to a compact SBC that is ideal for embedded applications. The National Semiconductor Geode GX1 processor dissipates very little power, simplifying thermal design considerations.

DRAM MEMORY — The VMIPC4-7301 is available in memory configurations from 16 to 256 MB PC133 memory.

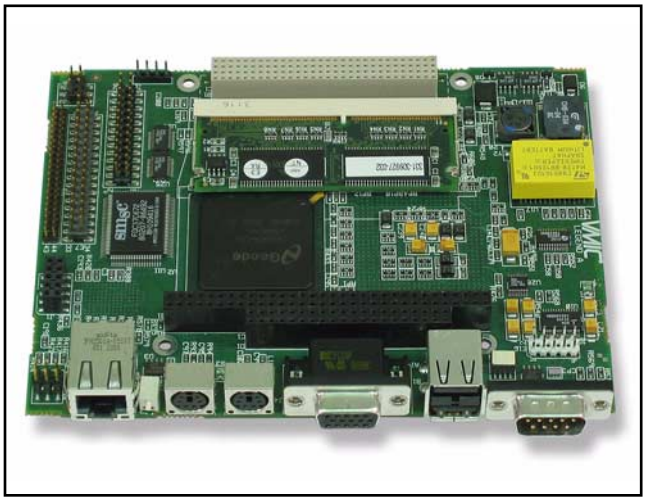
BIOS — The VMIPC4-7301 system BIOS, video BIOS, and LAN boot BIOS are provided in reprogrammable memory. BIOS loader software is also provided.

SUPER VGA CONTROLLER — Full function integrated 2D graphics accelerator provides pixel processing and rendering functions. The video output is provided through a standard SVGA connector.

Ethernet CONTROLLER — The VMIPC4-7301 provides 10BaseT and 100BaseTX Ethernet through the 82559ER PCI Ethernet controller. A standard RJ45 connector is provided with two network status indicators.

CompactFlash — The VMIPC4-7301 provides a CompactFlash card socket that will accommodate types 1 and 2, IDE-compatible devices. This includes flash disk modules up to 192 MB capacity and IBM MicroDrive hard disk up to 1 GB.

SERIAL PORTS — Two 16550-compatible serial ports are featured on the VMIPC4-7301. The serial channels have independent 16-byte FIFOs to support baud rates up to 115 Kbaud. The serial ports are accessible through on-board headers.



ENHANCED PARALLEL PORT — A single Centronics-compatible, fully bidirectional parallel port meeting IEEE-1284 standards (compatibility, nibble, EPP, and ECP). The parallel port contains a 16-byte FIFO to allow data rates up to 2 MB per second in ECP mode.

USB PORTS — The VMIPC4-7301 provides two Universal Serial Bus (USB) ports. The ports are accessible through on-board headers.

KEYBOARD AND MOUSE PORTS — The VMIPC4-7301 supports standard PS/2 keyboard and mouse accessed through standard connectors.

PC/104-PlusSupport — The VMIPC4-7301 supports expansion of functionality through the addition of widely available PC/104 and PC/104-*Plus* cards.

Ordering Options

July 1, 2003 800-467301-000 F		A	B	C	–	D	E	F
VMIPC4-7301	–				–			

A = Processor
- 0 = Reserved
- 1 = Reserved
- 2 = Reserved
- 3 = 333 MHz Geode

B = SDRAM Memory
- 0 = Reserved
- 1 = 32 MB
- 2 = 64 MB
- 3 = 128 MB
- 4 = 256 MB
- 5 = Reserved

C = CompactFlash/MicroDrive
- 0 = None
- 1 = 16 MB
- 2 = 32 MB
- 3 = 64 MB
- 4 = 128 MB
- 5 = Reserved
- 6 = Reserved
- 7 = 512 MB MicroDrive
- 8 = 1.0 GB MicroDrive

For Ordering Information, Call:
1-800-322-3616 or 1-256-880-0444 • FAX (256) 882-0859
E-mail: info@vmic.com Web Address: www.vmic.com
Copyright © April 2001 by VMIC
Specifications subject to change without notice.

WATCHDOG TIMER — The VMIPC4-7301 provides a software programmable watchdog timer. The watchdog timer is enabled under software control. Once the watchdog timer is enabled, on-board software must access the timer within the specified timer period, or a timeout will occur. A user jumper allows the timeout to cause a Reset. Independent of the jumper, software can enable the watchdog timeout to assert a nonmaskable interrupt (NMI).

16-bit Timers — The VMIPC4-7301 provides the user with three 82C54-compatible, general-purpose 16-bit timers. These timers are mapped in I/O space and are completely software programmable.

NONVOLATILE SRAM — The VMIPC4-7301 provides 32 Kbyte of nonvolatile SRAM. The contents of the SRAM are preserved when +5 V power is interrupted or removed from the unit.

HARDWARE RESET — A hardware reset switch is provided.

OPERATING SYSTEM AND SOFTWARE SUPPORT — The VMIPC4-7301 supports a wide variety of PC-compatible operating systems and application software.

TECHNICAL SPECIFICATIONS

Length: 5.8 inches (147 mm)

Width: 4.7 inches (119 mm)

Thickness: 1.1 inches (28 mm)

PHYSICAL/ENVIRONMENTAL

Power Requirements: +5 VDC (±5 percent), 1.5 A typical, 1.9 A maximum

Operating Temperature: -20 to 60 °C

Normal Relative Humidity: 10 to 90 percent, noncondensing

TRADEMARKS

The VMIC logo is a registered trademark of VMIC. MMX is a trademark of Intel Corporation. Windows and Windows NT are registered trademarks of Microsoft Corporation. Other registered trademarks are the property of their respective owners.

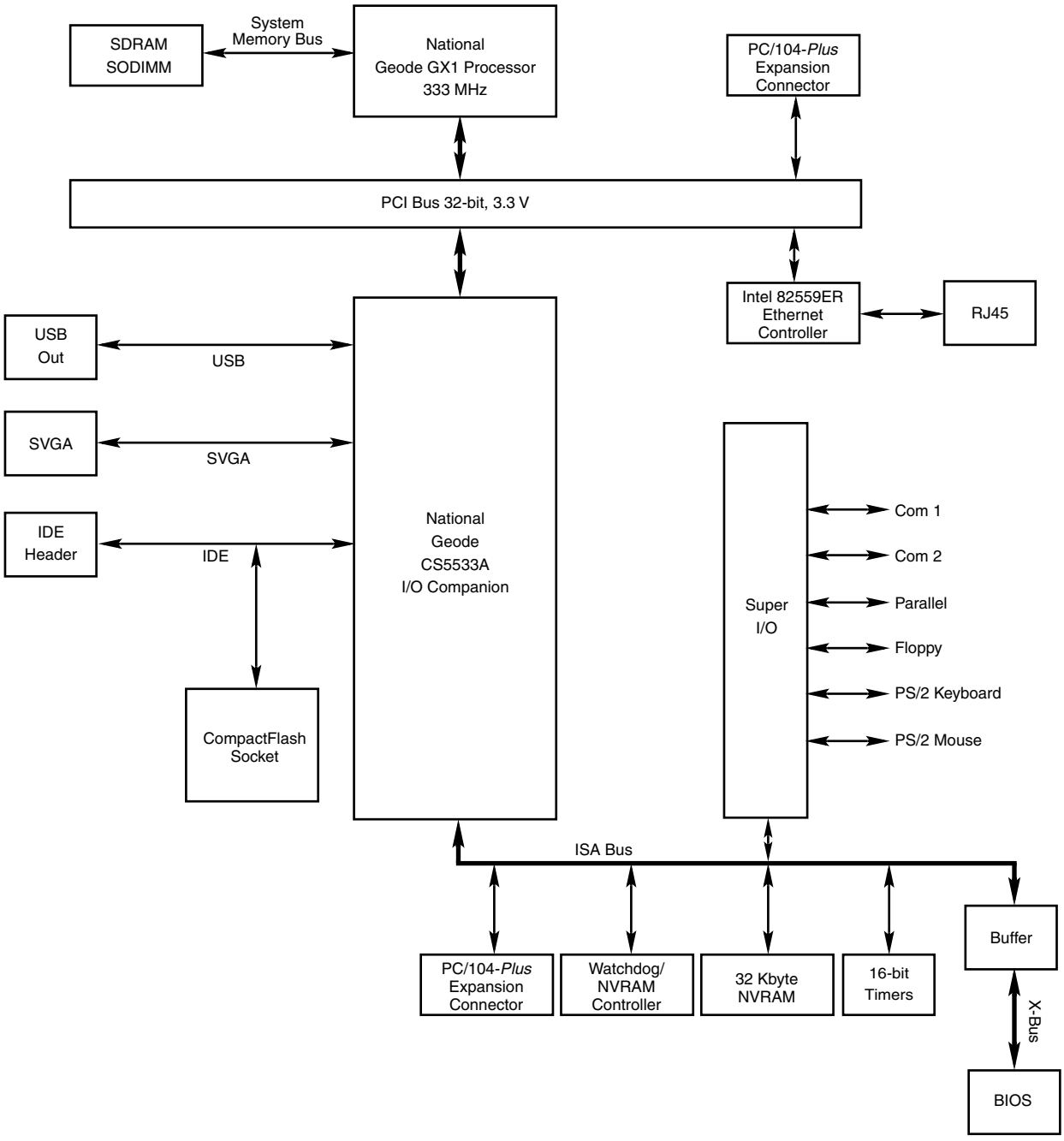


Figure 1. VMIPC4-7301 GX1-Based Embedded Controller

Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

Artisan Scientific Corporation dba Artisan Technology Group is not an affiliate, representative, or authorized distributor for any manufacturer listed herein.

We're here to make your life easier. How can we help you today?

(217) 352-9330 | sales@artisantg.com | artisantg.com

ARTISAN® TECHNOLOGY GROUP