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VMICPCI-7305
Low Power X86-Based 3U CompactPCI® SBC

- Low power X86-based processor
  - — National Semiconductor Geode processor
  - — Proven 32-bit processor architecture
  - — Highly integrated chipset
  - — Less than 10 W total power dissipation typical
  - — Ideal for embedded applications
- Standard features include
  - — 333 MHz low power processor
  - — Up to 256 MB PC-133 SDRAM
  - — Integrated 2D graphics (maximum resolution of 1,280 x 1,024)
  - — Fast Ethernet controller supporting 10BaseT and 100BaseTX interfaces
  - — Ultra DMA/33 IDE and floppy drive interfaces
  - — CompactFlash/Microdrive socket (up to 512 MB CompactFlash or up to 1 GB Microdrive)
  - — One high performance 16550-compatible serial port (dual slot configuration only)
  - — Enhanced parallel printer port with ECP/EPP
  - — Two USB ports. One routed to backplane J2.
  - — PS/2-style keyboard and mouse
- 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®

MICROPROCESSOR — The VMICPCI-7305 brings X86-based performance to a compact single board computer (SBC) that is ideal for embedded applications. The National Semiconductor Geode GX1 processor dissipates very little power, providing operation over a wide range of temperature and environmental conditions.

DRAM MEMORY — The VMICPCI-7305 is available in memory configurations from 32 to 512 MB PC-133 memory.

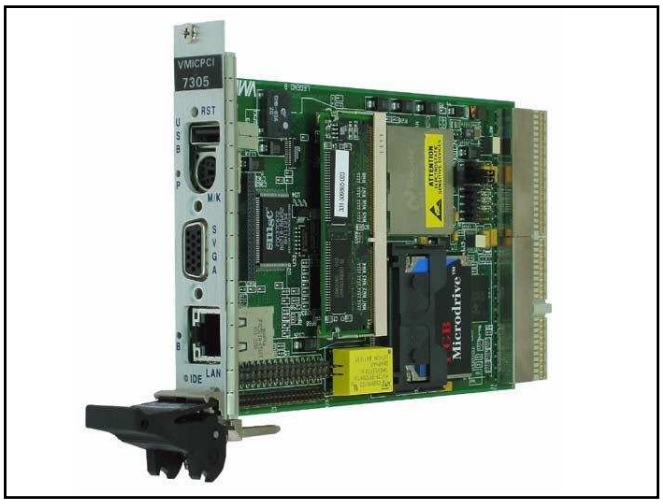
BIOS — The VMICPCI-7305 System BIOS and video BIOS are provided in reprogrammable memory.

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

Ethernet CONTROLLER — The VMICPCI-7305 provides 10BaseT and 100BaseTX Ethernet through the 82551ER PCI Ethernet controller. A standard RJ45 connector is provided on the front panel with two network status indicators.

CompactFlash — The VMICPCI-7305 provides a CompactFlash card socket that will accommodate types 1 and 2 IDE-compatible devices. This includes flash disk modules up to 512 MB capacity or an IBM Microdrive hard disk up to 1 GB. In the dual slot configuration, only a type 1 CompactFlash card IDE-compatible device is available as an option on the daughter card.

HARD DISK DRIVE — The VMICPCI-7305 offers the option of an integrated 2.5-inch hard disk drive in the dual slot configuration. Either the hard disk or the CompactFlash device may be installed on the assembly, but not both.



FLOPPY DISK DRIVE — The VMICPCI-7305 provides a standard floppy disk drive interface through a header mounted on the board.

SERIAL PORT — The VMICPCI-7305 offers the option of one 16550-compatible serial port in the dual slot

Ordering Options

Sept. 24, 2003 800-657305-000 F	A	B	C	–	D	E	F
VMICPCI-7305 –				–		0	

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

B = SDRAM Memory
- 1 = 32 MB
- 2 = 64 MB
- 3 = 128 MB
- 4 = 256 MB
- 5 = 512 MB

C = CompactFlash/Microdrive
- 0 = None (Required for Dual Slot Configuration)
- 1 = 32 MB CompactFlash
- 2 = 64 MB CompactFlash
- 3 = 128 MB CompactFlash
- 4 = 256 MB CompactFlash
- 5 = 512 MB CompactFlash
- 6 = Reserved
- 7 = 1 GB Microdrive

D = Hard Drive/CompactFlash (Dual Slot Configuration)
- 0 = No Second Slot
- 1 = Reserved
- 2 = 20 GB Hard Drive
- 3 = 30 GB Hard Drive
- 4 = Reserved
- 5 = 32 MB CompactFlash
- 6 = 64 MB CompactFlash
- 7 = 128 MB CompactFlash
- 8 = 256 MB CompactFlash
- 9 = 512 MB CompactFlash

E = Board Width Configuration
- 0 = Single Slot Configuration (Option D = 0)
- 1 = Dual Slot Configuration with 1 Serial, 1 Parallel Port (Option C = 0)

For Ordering Information, Call:
1-800-322-3616 or 1-256-880-0444 • FAX (256) 882-0859
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configuration. The serial channel has an independent 16-byte FIFO to support baud rates up to 115 Kbaud. The connector for the serial port is provided on the front panel.

ENHANCED PARALLEL PORT — A single Centronics-compatible, fully bidirectional parallel port meets IEEE-1284 standards (compatibility, nibble, EPP and ECP). The parallel port contains a 16-byte FIFO to allow data rates up to 2 MB/s in ECP mode. The connector for the parallel port is provided on the front panel and requires a second slot.

USB PORTS — The VMICPCI-7305 provides two universal serial bus (USB) ports. Connection to the ports is established through a standard USB connector on the front panel and J2.

KEYBOARD AND MOUSE PORTS — The VMICPCI-7305 supports PS/2 keyboard and mouse through standard connectors on the front panel.

WATCHDOG TIMER — The VMICPCI-7305 provides a software-programmable watchdog timer. The watchdog timer is enabled under software control. Once the watchdog timer is enabled, software must access the timer within the specified timer period or a timeout will occur. Software can enable the watchdog timeout to assert a nonmaskable interrupt (NMI).

16-bit Timers — The VMICPCI-7305 provides the user with three general purpose16-bit timers. These timers are mapped in I/O space and are completely software programmable.

NONVOLATILE SRAM — The VMICPCI-7305 provides 32 KB 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 located behind a small diameter opening in the front panel and is activated by inserting a small rod and depressing the switch. This will reset the SBC board logic and will not drive the CompactPCI® bus reset.

ANNUNCIATORS — In addition to the two indicators associated with the Ethernet adapter, indicators for the IDE interface activity, board status and +5 V power status are provided.

CompactPCI Bus Bridge — The VMICPCI-7305 provides a 32-bit, 33 MHz interface to the CompactPCI bus, which is fully compliant with CompactPCI Revision 2.1, PCI 2.1, and PCI-to-PCI Bridge Architecture Revision 1.1.

OPERATING SYSTEMS AND SOFTWARE SUPPORT — The VMICPCI-7305 supports a wide variety of PC-compatible operating systems and application software.

SPECIFICATIONS

3U Eurocard Form Factor:

Height:	100 mm
Length:	160 mm
Width:	Single or dual CompactPCI slots, depending on options

Power Requirements: +5 VDC (±5 percent), 1.1 A (typical), 1.5 A maximum, +3.3 VDC (±5 percent), 800 mA (typical), 1.0 A maximum

Temperature: -20 to 60 °C

Normal Relative Humidity: 10 to 90 percent, noncondensing

TRADEMARKS

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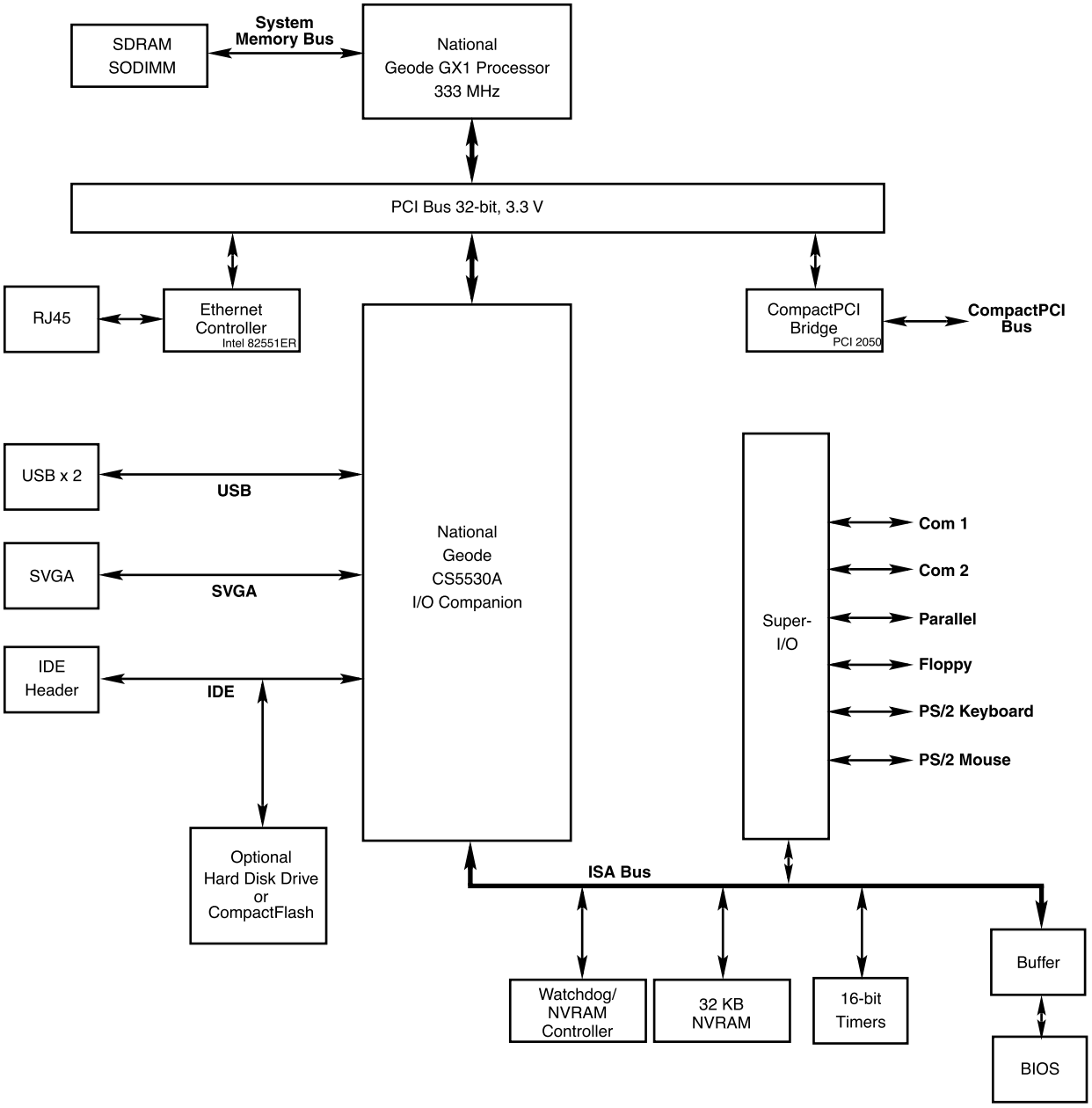


Figure 1. VMICPCI-7305 X86-Based 3U CompactPCI Processor

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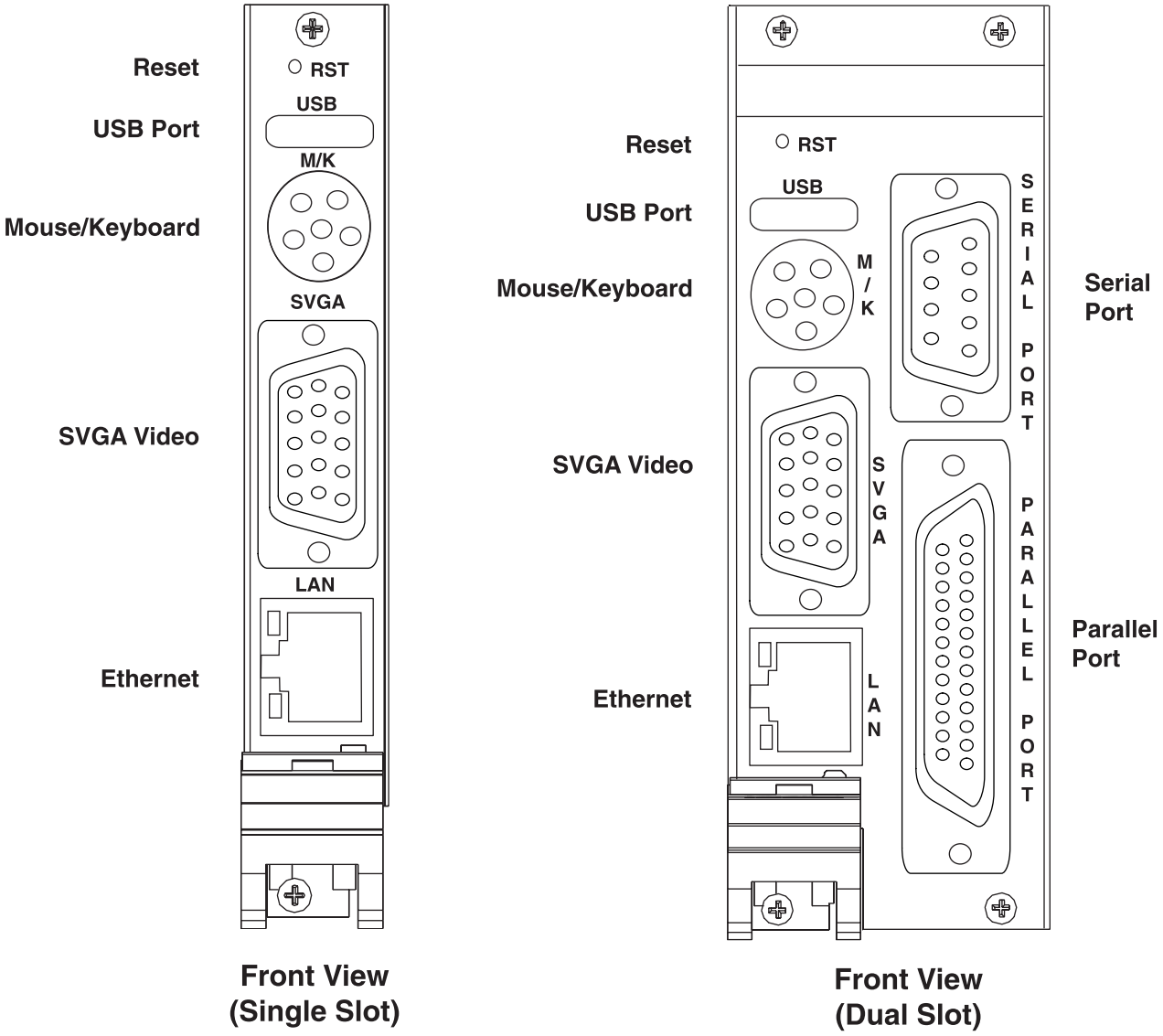


Figure 2. VMICPCI-7305 Front Panel Configuration

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