Embedded Pentium III VXIbus Computers

VXIpc-870 Series

VXI*plug&play*-compliant
Intel Slot 1 based design
  700 MHz Pentium III, VXIpc-870/700
High-performance PCI-based Peripherals
  10/100BaseT Ethernet
  Ultra Wide SCSI-3
  PC Card (native Win98/NT support)
  PCI-GPIB (IEEE-488)
  Ultra DMA 33 Enhanced IDE
  2 USB Ports
MITE Based VXIbus interface
  DMA
  VME64
Storage and memory
  Up to 384 MB SDRAM using SODIMMs
  Internal 1.44 MB floppy drive
  Internal 6 GB Ultra DMA hard drive
Programmable WatchDog Timer with Measurement & Automation Explorer support
Complete VXI Slot 0 Resource Manager
Jumperless configuration
30 Mbytes/s block performance
12 Mbytes/s random read/write performance
1Mbytes/s word serial performance

NI-VXI/NI-VISA Software

Windows 98
Windows NT

NI-488.2 Software

Windows NT
Windows 98
Linux

Application Software

LabVIEW
Measurement Studio



Overview

The VXIpc-870 Series of embedded VXI computers uses state-of-the-art technology and packaging to create a solid, PC-based foundation for controlling VXI systems. The VXIpc-870 Series computers are based on the Intel Pentium III Slot 1 architecture, 100 MHz processor chipset bus along with an Advanced Graphics Port (AGP) for SVGA connection. This chipset also provides Ultra DMA 33 enhanced IDE, Universal Serial Ports (USB), and the ISA bus.

Placing a computer directly in a VXI chassis gives you direct control of VXI registers, memory, interrupts, and triggers while maintaining compatibility with the scores of software packages and tools available for general-market desktop PC computers. The VXIpc-870 Series are flexible, high-performance computers in a small, rugged package ideal for VXI systems. The VXIpc-870 Series computers require two VXI C-size slots.

Feature	Description
Floppy drive	Integrated 3.5 in., 1.44 MB
Hard drive	6 GB*
Ethernet	10/100 BaseT (RJ45)
SCSI	Wide Ultra SCSI-3
Video	AGP, 2 MB 64-bit accelerated SGRAM
Memory	128 MB standard SDRAM, SODIMMs
	384 MB maximum
PCMCIA	1 Type I/II, 1 Type I/II /III
GPIB	IEEE 488.2 (26-pin miniature connector)
Serial ports	2 RS-232, HS488 (9-pin miniature connector)
Parallel port	IEEE 1284 compatible
Keyboard †	PS/2
Mouse †	PS/2
USB	2 Ports

Table 1. VXIpc-800 Series Features

* Note: Because hard drive technology changes rapidly, contact National Instruments for the latest options.
† Not included.

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The VXIpc-870 comes in several models and processors speeds along with various options to provide the most cost-effective solution. All VXIpc-870 models come complete with a 3.5 in. floppy drive, Super VGA, USB, two PS/2 ports, serial and parallel ports, and 64 MB of SDRAM (128 MB standard with 700MHz controller). Other standard features include GPIB, PC Card, 10/100 Ethernet and Wide Ultra SCSI-3 and at least a 4 GB hard drive. VXI CLK I/O, TrigIN and TrigOUT SMBs are also standard.

You can order the VXIpc-870 in three different configurations – the first configuration, the VXIpc-871, includes all of the standard features, but it also adds an integrated 24X CD ROM. The VXIpc-872 uses the same base model as the VXIpc-871, but instead of a CD ROM drive, it offers one PCI/ISA expansion slot. The third option, the VXIpc-873, is targeted toward users who need solid-state storage media for operation in harsh environments. You can order the VXIpc-873 with either an internal solid-state drive in place of the internal hard drive, or a removable solid-state drive that you can install and remove directly from the front panel.