PC 9718

Embedded PXI Bus System Controller

Features

- **Low Power VIA Ezra CPU 800 MHz**
- **IEEE488.2 GPIB Controller**
- **USB2, COM, LPT, 10/100BaseT Ethernet**
- **Windows 2000/XP, Linux**
- **LongLife™ through ETX technology**

Overview

The PC 9718 is a full-featured PXI bus Embedded System Controller ideally suited for cost sensitive applications.

The ines PC 9700 series is build on industry-strength ETX CPU modules. By using industry-strength CPU modules a product lifetime of typically ten (10) years can achieved. For your PXI bus application this means that there is no need to re-evaluate your application each time a new CPU generation appears.

IEEE488.2 GPIB interface

The on-board GPIB interface allows to integrate GPIB equipment with your PXI test system application without additional costs.

It performs all the basic IEEE-488.1 functions such as talker, listener and system controller. The IEEE-488.2 compatible funcions make it fully compliant with the IEEE-488.2 specification. In controller applications, you can control typically up to 15 devices (instruments). If operated as a talker/listener (device) interface it does exchange data and state information with the current controller-in-charge of the GPIB bus. The PC-9718 lets Windows and Linux programs control GPIB devices.

Specifications

PC Architecture Components

CPU: Embedded VIA low power Ezra-800 processor, 128 KB L1 cache memory in die
BIOS: Award 256 KB Flash memory
System memory: One SO-DIMM socket accepts 64MB up to 512MB SDRAM
2nd cache memory: 64KB on the Ezra processor
Enhanced IDE interface: Two channels supports up to four EIDE devices. BIOS auto-detect, PIO Mode 3 or Mode 4, UDMA33 transfer
FDD interface: REMIND
Serial Ports: Two serial RS232 ports REMIND
Parallel Port: Parallel port supports SPP/EPP/ECP mode
Keyboard/mouse connector: Supports standard PC/AT keyboard and a PS/2 mouse
Power management: Supports power saving modes including Normal/Standby/Supspend modes, APM 1.2 compliant
Watchdog timer: 62 level timer intervals
USB: Two USB ports
VGA: VIA Twister chip with integrated Savage 2D73D/Video Accelerator, 8/16/32 MB frame buffer with system memory, CRT Modes: 1280x1024@16bpp(60Hz), 1024 x 768@16bpp(85Hz)
Ethernet: RTL 8139 chipset, IEEE 802.3u 100BASE-T Fast Ethernet compatible, Built-in boot ROM
HDD: 80 GB

PXI bus

Compliance: PXI Bus Rev. 2.0, CompactPCI Bus Rev. 3.0
Trigger: PXI trigger lines with flexible trigger protocols

GPIB Interface

IEEE 488.1 Capabilities: AH1, SH1, T/TE5, L/LE3, SR1, RL1, PP1/PP2, DC1, DT1, C1, C2, C3, C4, C5
IEEE 488.2 Capabilities: includes the capability to read the following bus lines:EOI, ATN, SRQ, REN, IFC, NRFD, NDAC, DAV
GPIB Handshake Rate: > 1Mbytes/sec

Environmental and Physical

Form factor: Standard 3U PXI/CompactPCI, 12 HP wide (3-slot)
Operating ambient temperature: 0 to 50°C
Storage temperature: -20 to 80°C
Relative humidity: 5 to 95%, noncondensing
Vibration: Operation: 0.5 GRMS, 5…500 Hz, Non-operation: 1.88 GRMS, 5…500 Hz
Weight (net)**:** 0.6 kg

Ordering Information

PC9718 - Controller, Software CDROM, Windows XP
Option -B - without operating system

On the Web

Click www.inesinc.com for more information and resources.

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