

PXI-3710

3U PXI Pentium-III System Controller with VGA/DVI/Ethernet/CF

Features

- PICMG 2.0 CompactPCI specifications R3.0 compliant
- PICMG 2.8 PXI specifications Rev. 2.0 compliant
- PICMG 2.1 R1.0 CompactPCI Hot Swap specifications compliant
- Design for socket370 Pentium-III, Celeron or VIA C3 CPU, FSB 100/133, CPU frequency up to 1.4 GHz
- Two 144-pin SO-DIMM socket supports up to 512 MB RAM
- One 44-pin EIDE (primary IDE) and one 40-pin EIDE (secondary IDE) connector on front panel
- Two CompactFlash Interface for HDD and FDD replacements; CF2 supports hotswappable CF card functionality
- Build-in two USB ports, one serial port (COM1), and one parallel port on front panel
- One VGA output on front panel supporting 1600x1200 resolution
- Build-in one DVI, one LVDS output and one 24-bit CMOS/TTL FPD output on the rear I/O transition module (PXI-R3710)
- One 10/100Mb Ethernet port by Intel ICH2 controller with 82562 PHY
- Supports 7 bus-master PCI devices on PXI/CompactPCI bus
- Programmable watchdog timer
- Build-in 2.5" low profile HDD (20 GB, min)
- Optional floppy disk drive (PXI-3710F)



Introduction

The PXI-3710 series is the latest 3U PXI controllers of the ADLINK PXI product line. This product is designed to meet the highest performance requirement for embedded computing. The PXI-3710 controller complies with PXI specifications Rev. 2.0 and features many new technologies such as up to 1.4GHz Pentium III CPU support, hot swappable CompactFlash cards, and Digital Vision Interface (DVI) through PXI-R3710, the rear I/O transition module (RTM). PXI-3710's extraordinary reliability and high performance provides a cost-effective choice for test and measurement applications.

By using an Intel Embedded Socket-370 Pentium III CPU and Intel 815E chipset, the PXI-3710 provides both long life and excellent driver support to meet the needs of the majority industrial applications. The PXI-3710's architecture supports the following operating systems: Windows NT, Windows 2000/XP, Linux, and VxWorks. With its rugged and industrial package, the PXI-3710 is ideal for harsh environments.

Specifications

General PXI/CompactPCI features

- PICMG 2.0 CompactPCI specifications R3.0 compliant
- PXI specifications Rev. 2.0 (PICMG 2.8) compliant
- PICMG 2.1 R1.0 CompactPCI Hot Swap specifications compliant

CPU/Cache

- Support Socket370 CPU, include the following models:
Intel socket370 Pentium III, Celeron or VIA C3 CPU, CPU frequency up to 1.4 GHz
- Front side bus (FSB) frequency: 100/133 MHz

Chipset

- Intel 815E Chipset (in Intel Embedded Roadmap)



VGA

- 3D graphics visual enhancement
- 24-bit 230 MHz RAMDAC
- Up to 1600x1200 resolution (256 colors at 85Hz refresh rate)

BIOS

- Award PnP BIOS advanced by ADLINK
- Write protection and anti-virus capabilities
- DMI BIOS Support Supports Intel pre-boot execution environment (PXE)
- Optional remote console, upon OEM request
- Optional customized power-on screen, upon OEM request