PXI-3950

3U Intel® Core™2 Duo T7500 2.2GHz Processor-based PXI Controller



Introduction

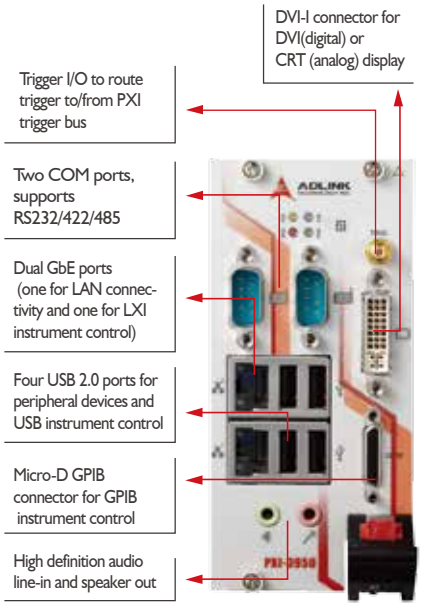
The ADLINK PXI-3950 PXI embedded controller is based on the Intel® Core™2 Duo and specifically designed for hybrid PXI based testing systems by providing a rugged and stable operating environment for a variety test and measurement applications. Hybrid PXI-based testing systems are typically composed of a PXI platform and diversified stand-alone instruments for complex testing tasks. The PXI-3950 provides plenty of interfaces, including GPIB, USB, and COM ports, for connecting and controlling instruments. The PXI-3950 also provides dual Gigabit Ethernet ports—one for a LAN connection and the other for controlling next-generation LXI instruments. Combining Intel® Core™2 Duo T7500 2.2 GHz processor, the GME965 chipset, and 4 GB of 667 MHz DDR2 memory, the PXI-3950 provides two computing engines on a single processor that can execute two independent tasks at the same time in a multi-tasking environment.

Features

- **PXI™ specification Rev. 2.2 Compliant**
- **Scalable computing power**
  - **Intel® Core™2 Duo T7500 2.2 GHz processor**
- **On-board DDR2 memory**
  - **Up to 4 GB 667 MHz**
- **Integrated SATA hard drive**
  - **320 GB HDD**
- **CompactFlash® socket for HDD replacement**
- **Integrated I/O**
  - **Dual Gigabit Ethernet ports**
  - **Four USB 2.0 ports**
  - **Built-in GPIB (IEEE488) controller**
  - **Two RS-232/422/485 ports**
  - **DVI-I video connector**
  - **High definition audio output and input**
  - **Trigger I/O for advanced PXI trigger functions**
- **Programmable watchdog timer**

Supported Operating System

- Windows 7 x32



PXI-3950 Front Panel

Specifications

Model Name	PXI-3950
Core Features	
CPU	Intel® Core™2 Duo T7500 2.2 GHz
FSB	800 MHz
Chipset	Intel® GME965 Graphic Memory Control HUB Intel® I/O Controller Hub 8 Mobile (ICH8-M)
Memory	4 GB SO-DIMM memory Supports dual-channel DDR2 SDRAM, 667 MHz
Display	
Chipset	Intel® GMA X3100 graphic media accelerator
DVI	Single channel TMDS via SDVO to DVI controller up to 1600 x 1200 resolution @ 60 Hz
CRT	Analog CRT route to DVI-I connector on the faceplate up to 1280 x 1024 resolution
LVDS (For rear I/O only)	Single 18-bit LVDS channel route to rear transition module Supports LCD backlight control
Interface	DVI-I connector for digital or analog video signal outputs
I/O Connectivity	
Ethernet	One 88E8053 + one Intel® 82566 PHY Two RJ-45 connectors with speed/link/active LED on the faceplate
USB	4 x USB 2.0 on the faceplate
GPIB	On-board IEEE488 GPIB controller Micro-D 25-pin connector on the faceplate (ACL-IEEE488-MD1-A cable required)
Serial Port	Two 16C550 UART compatible COM ports on the faceplate Supports RS-232, RS-422 and RS-485, configurable by jumper setting
Audio	Supports high definition audio input/output Two audio jacks on the faceplate for line-in/mic-in and speaker-out
Trigger I/O	SMB connector on the faceplate to route an external trigger signal to/from PXI™ trigger bus
CompactFlash Socket	Type II CF Socket, supporting PIO and DMA modes
Storage	
HDD	320 GB (or greater) SATA hard drive
Mechanical and Environmental	
Dimensions	60.5 mm x 128.7 mm x 213.2 mm (2.35" x 5" x 8.3")
Slot Requirements	1 system slot plus 2 controller expansion slots
Weight	0.9 kg (1.98 lbs)
Operating Temp.	0°C to 50°C (32°F to 122°F)
Storage Temp.	-20°C to 80°C (-4°F to 176°F)
Relative Humidity	5 to 95%, non-condensing
Shock	30 G, half-sine, 11 ms pulse duration
Vibration	Operating: 5 to 500 Hz, 0.21 Grms, 3 axes Non-operating: 5 to 500 Hz, 2.46 Grms, 3 axes
Emissions Compliance	EN 61326-1 FCC Class A
CE Compliance	Immunity: EN 61326-1

Ordering Information

- **PXI-3950**
  3U PXI Intel® Core™2 Duo T7500 2.2 GHz system controller with 4 GB memory & 320 GB HDD
- **PXI-3950/M2G**
  3U PXI Intel® Core™2 Duo T7500 2.2 GHz system controller with 2 GB memory & 320 GB HDD

Cable Accessory

- **ACL-IEEE488-MD1-A**
  25-pin Micro-D to GPIB Cable, 1 Meter Length

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LRI Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000