PCI-8570/PXI-8570

PCI-to-PXI/PXI-to-PXI Expansion Kits



Introduction

The ADLINK PCI/PXI-8570 expansion kit is a PCI-to-PXI or PXI-to-PXI expansion module that functions as a transparent PCI-to-PCI bridge register set. Implementing master and slave extension modules, users can have direct control of PXI/CompactPCI chassis from any other PC or another PXI/CompactPCI system. All devices on the system are deemed to be local devices on the same PCI bus.

The PCI interface supports 64-bit or 32-bit PCI buses operating at 66 MHz or 33 MHz. By adopting shielded twisted copper cables, PCI-8570/PXI-8570 can expand the transmission distance to 10 meters. One master expansion card (either PCI-8570 or PXI-8570) can expand up to 2 slave expansion modules (PXI-8570) at the same time. A bundled link can support the full bandwidth of a 64-bit/66 MHz PCI bus. All interrupts asserted by add-in cards in the expansion system are passed through the expansion set to the host system.

With ADLINK PCI/PXI-8570, users can combine PCI, CompactPCI, and PXI devices in the same system, increase the available number of PXI/CompactPCI slots for high-density I/O application and separate a control system from a harsh environment with an expansion chassis.

Features

- Direct PC control of PXI/CompactPCI systems
- Multi-chassis configurations for PXI/CompactPCI
- Up to 2 PCI segments extended from single PCI/PXI-8570
- Up to 64-bit, 66 MHz PCI bus expansion
- StarFabric link performance
- 528 MB/s peak (64-bit, 66 MHz PCI)
- I32 MB/s peak (32-bit, 33 MHz PCI)
- expansion distance of up to 10 meters (extension cables at 2 M, 5 M, and 10 M)
- Completely hardware and software transparent
- Independence of operating systems
- Seamless PCI interrupt extension

Compliant with

- PCI local Bus Specifications Rev. 2.2
- PCI-to-PCI Bridge Architecture Specifications Rev. 1.1
- PXI Specifications Rev. 2.2

General Specifications

- Operating temperature: 0°C to 50°C
- Storage temperature: -20°C to 80°C
- Relative humidity: 10% to 90%, non-condensing

Certification

• EMC/EMI: CE, FCC Class A

Ordering Information

- PCI-PXI Expansion Kit Includes One PCI-8570, One PXI-8570, and One ACL-PXIES-2 Cable
- PXI-PXI Expansion Kit Includes Two PXI-8570 and One ACLPXIES- 2 Cable
- PCI-8570 PCI-to-PXI Expansion Interface Card for Host PC
- **PXI-8570** PCI-to-PXI/PXI-to-PXI Expansion Interface Module for PXI Chassis
- ACL-PXIES-2 Copper Cable Kit, 2 M
- ACL-PXIES-5 Copper Cable Kit, 5 M
- ACL-PXIES-10
- Copper Cable Kit, 10 M
- 5-7 www.adlinktech.com

PCI-8570	PXI-8570	ACL-PXIES-2/-5/-10	
specifications			
■ PCI-8570	 PCI[™] local bus specifications Rev. 2.2 compliant 		
	 Maximum data throughput 132 MB/s (32-bit, 33 MHz PCI) 528 MB/s (64-bit, 66 MHz PCI) 		
	• I/O Connector: RJ-45 connector x 4		
	 Extended distance of up to 10 meters 		
	• Dimensions (not including connectors): 160 mm (H) x 100 mm (W)		
	Power requirement:		
	Device	+5 V +3.3 V	

	Device +5 V +3.3 V		
	PCI-8570 I 90 mA 250 mA		
PXI-8570	PXI [™] Specifications Rev. 2.2 compliant		
	PCI-to-PCI Bridge Architecture Specifications Rev. 1.1 compliant		
	 PCI[™] Local Bus Specifications Rev. 2.2 compliant 		
	 Supports both 32-bit/66 MHz and 64-bit/66 MHz PCI[™] interface 		
	 I/O Connector: RJ-45 connector x 4 		
	 Internal arbiter supports up to 7 external masters 		
	 Up to seven PCI clock/bus requests 		
	 Extended distance of up to 10 meters 		
	 Dimensions: 3U PXI form factor 175 mm (W) x 107 mm (H) 		
	Power requirement Device +3.3 V		
	PXI-8570 540 mA		
ACL-PXIES-2/-5/-10	• Length: 2 M, 5 M, 10 M		