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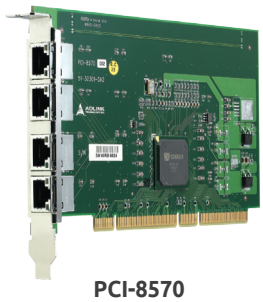
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PCI-8570/PXI-8570

PCI Control of PXI/CompactPCI

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)
- 132 MB/s peak (32-bit, 33 MHz PCI)
- Expansion distance of up to 5 meters
- 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



PCI-8570



PXI-8570

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 5 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.

Ordering Information

- **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-5**
  Copper Cable Kit, 5 M

Specifications

Model Name		PCI-8570	PXI-8570
Compliance		PCI™ local bus specifications Rev. 2.2 compliant	PXI™ Specifications Rev. 2.2 compliant
			PCI-to-PCI Bridge Architecture Specifications Rev. 1.1 compliant
			PCI™ Local Bus Specifications Rev. 2.2 compliant
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		10% to 90%, non-condensing	
Maximum data throughput		132 MB/s (32-bit, 33 MHz PCI) 528 MB/s (64-bit, 66 MHz PCI)	
PCI™ interface		32-bit/66 MHz and 64-bit/66 MHz	
I/O Connector		RJ-45 connector x 4	
Extended distance		up to 10 meters	
Internal arbiter			supports up to 7 external masters
Dimensions		160 mm (H) x 100 mm (W)(6.24" x 3.9") (not including connectors)	3U PXI form factor 175 mm (W) x 107 mm (H) (6.82" x 4.17")
Power requirement	+5 V	190 mA	
	+3.3 V	250 mA	540 mA
ACL-PXIES-5		Length: 5 M	
Emissions Compliance		FCC Class A ,CE Compliance	

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