PCIe-PXIe-8638

PCI Express Control of PXI Express

Features

- PXI-5 PXI Express hardware specification rev.2.0 compliant
- PCI Express® Base specifications rev.2.0 compliant
- PCIe Gen 2 x8 ports each support up to 4GB/s
- PXI Express link capability:
  - Four link configuration: x4 x4 x4 x4
  - Two link configuration: x16 x8
- Expansion distance up to 5m with 2m or 5m expansion cables
- Comprehensive hardware and software transparency
- Flexible option for multi-chassis expansion as a daisy-chain or star-chain configured



Introduction

The PCIe-PXIe-8638 PCI Express-to-PXI Express expansion kit provides control of PXI Express modules installed in a PXI Express chassis using high bandwidth PCI Express technology. The extension kit can provide up to 4GB/s using PCIe Gen 2 x8 signaling.

The PCIe-PXIe-8638 PCI Express-to-PXI Express expansion kit provides additional PXI instruments slots to the host computer by implementing a PCI Express-based control of PXI modules. The technology consists of a PCIe-8638 host adapter installed in the host computer, a PCIe x8 cable, and a PXIe-8638, a remote controller with the 3U (Eurocard) expansion module. The PCIe-8638 comes in a PCI Express x8 footprint and equips with PCIe x8 cable connector.

PXIe-8638D with dual ports provides capability of multi-chassis control as a daisy-chain configured. The upper port would be connected to a PCIe-8638 which be installed in a host PC. And the lower port would be connected to another PXIe-8638 or PXIe-8638D in subsequent chassis.

PXIe-8638P also is another option on multi-chassis expansion as a daisy-chain or star-chain configured for user only having PXIe-8638 at first place. with PXIe-8638P in a perapheral slot, it can connect to another chassis with PXIe-8638 or PXIe-8638D to establish multi-chassis control.

With comprehensive hardware and software transparency, the expansion kit enables fast and convenient detection of any PXI cards installed in the system, requiring no additional drivers or software.

Ordering Information

- **PCIe-PXIe-8638 PCI Express-to-PXI Express Expansion 2 meter Kit**
  Includes one PCIe-8638, one PXIe-8638, and one ACL-PCIEX8-2 2 meter cable
- **PCIe-PXIe-8638 PCI Express-to-PXI Express Expansion 5 meter Kit**
  Includes one PCIe-8638, one PXIe-8638, and one ACLPCIEX8-5 5 meter cable
- **PCIe-8638**
  PXIe remote controller for PCIe-to-PXIe cable extension
- **PXIe-8638P**
  PXIe-to-PXIe extension for multi-chassis expansion as a daisy-chain or star-chain configured

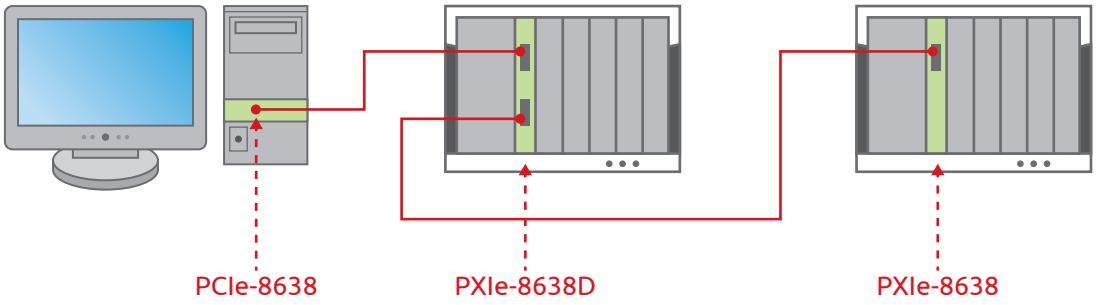
Cable Accessories

- **PCIe-PXIe-8638/2M**
  PCIe X8 cable, 2M
- **PCIe-PXIe-8638/5M**
  PCIe X8 cable, 5M

Specifications

Model Name	PXIe-8638	PXIe-8638D	PXIe-8638P
Compliance	PXI-5 PXI Express hardware specification Rev.2.0 compliant	PXI-5 PXI Express hardware specification Rev.2.0 compliant	
Maximum data throughput	PCI Express gen 2 x8 link with 4GB/s data throughput	Two PCIe gen 2 x8 ports each up to 4GB/s data throughput	
Extended distance	Up to 5m	Two PCIe gen 2 x8 ports each up to 4GB/s data throughput	
Installation	Controller slot 1	Controller slot 1	Peripheral slot
Dimensions	Low-profile PCI Express card 142 mm (W) x 69 mm (H)	PXI Express system module: 175 mm (W) x 107 mm (H)	
Operating temperature	0°C to 55°C		
Storage temperature	-40~71°C (-40~158°F)		
Relative humidity	10% to 90%, non-condensing		

Product Illustration



Bus Extension Card Selection Guide

ADLINK Bus extension card	Connector form factor			
	PCIe X8	PXIe system controller slot	PXIe peripheral slot	PXIe Hybrid slot
PCIe-8638	√			
PXIe-8638		√		
PXIe-8638D		√		
PXIe-8638P			√	√

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

All products and company name listed are trademarks or trade names of their respective companies.
Updated Oct. 14, 2019. ©2019 ADLINK Technology, Inc. All Rights Reserved.
All specifications are subject to change without further notice.