

# 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 peripheral 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 ACL-PCIEX8-5 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

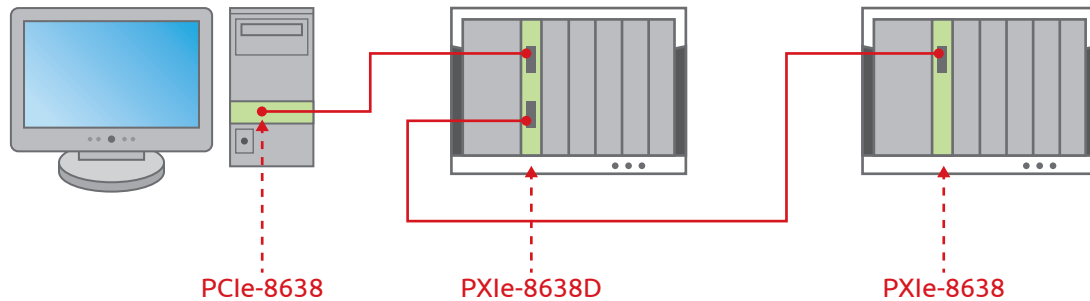
### Cable Accessories

- **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			√	√