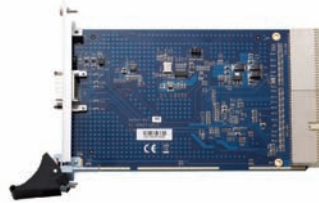# EC-8560/PXI-8565

ExpressCard-to-PXI/CompactPCI Expansion Kit

EC-8560

PXI-8565

Introduction

The ExpressCard-to-PXI/CompactPCI expansion kit allows you to control PXI™/CompactPCI® modules installed in PXI™/Compact-PCI® chassis using the ExpressCard™ slot in your laptop computer. ExpressCard™ technology leverages the features of PCI Express® bus but in a small form factor for laptop computer usage. With comprehensive hardware and software transparency, the expansion kit enables fast and convenient detection of any installed PXI™/CompactPCI® cards in a PXI™ chassis, without requiring additional drivers or software installation. The EC-8560 and PXI-8565 are connected by a shielded twisted copper cable of up to 7 meters in length for remote operating convenience. Supporting the ExpressCard™ interface, the ExpressCard-to-PXI/CompactPCI expansion kit provides laptop users great portability and convenience for remote control and measurement applications.

Controlling PXI™/CompactPCI® with ExpressCard™

The EC-8560 implements the novelty of a PXI™ remote controller to allow users control of PXI™/CompactPCI® modules via a laptop computer. The technology consists of an EC-8560 installed in the laptop computer, a PXI-8565 installed in an expanded PXI™ chassis, and a shielded cable to connect them. The EC-8560 comes in an ExpressCard/34 footprint and transmits PCI Express® signals to a shielded twisted cable. The PXI-8565 then converts the signals and works as a PCI™ bridge that supports 32-bit/66 MHz PXI™/CompactPCI® modules.

Note
Due to BIOS design, some laptop computers may be limited by system resource allocation for external PCI™ devices. ADLINK tests various laptop computers for compatibility with our ExpressCard-to-PXI expansion kit. Please visit the ADLINK website or contact us for compatibility information.

Features

- ExpressCard™-based control of PXI™/CompactPCI®
- High-speed PCI Express® x1 interface
- Direct control of PXI™/CompactPCI® systems via laptop computer
- Supports 32-bit/66 MHz PCI™ interface
- Expansion distance of up to 7 meters (expansion cables at 1 M, 3 M, and 7 M)
- Comprehensive hardware and software transparency
- Compliant with
  - ExpressCard™ Standard Release 1.2
  - PCI Express® Base Specifications Rev. 1.0a
  - PXI™ Specifications Rev. 2.2
  - PCI-to-PCI Bridge Architecture Specifications Rev. 1.2
  - PCI™ Local Bus Specifications Rev. 3.0

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

- **ExpressCard-to-PXI Expansion Kit**
  Includes One EC-8560, One PXI-8565, and One ACL-EXPRESS-3 Cable
- **EC-8560**
  ExpressCard-to-PXI Expansion Interface Card for Host Laptop Computer
- **PXI-8565**
  ExpressCard-to-PXI Expansion Interface Card for PXI Chassis
- **ACL-EXPRESS-1/-3/-7**
  High-speed Expansion Cable, 1/3/7 M

EC-8560

PXI-8565

ACL-EXPRESS-1/-3/-7

Specifications

EC-8560	• ExpressCard™ Standard Release 1.2 compliant
	• PCI Express® Base Specification Rev. 1.0a compliant
	• PCI Express® x1 link with 250 MB/s data throughput
	• Extended distance of up to 7 meters
	• Dimension: ExpressCard/34 108 mm (W) x 34 mm (H)

	• Power requirements:	Device	+3.3 V
		EC-8560	210 mA

PXI-8565	• PXI™ Specifications Rev. 2.2 compliant
	• PCI-to-PCI Bridge Architecture Specifications Rev. 1.2 compliant
	• PCI™ Local Bus Specifications Rev. 3.0 compliant
	• Supports 32-bit/66 MHz PCI™ interface
	• Extended distance of up to 7 meters
	• Dimensions: 3U PXI™ form factor 175 mm (W) x 107 mm (H)

	• Power requirement:	Device	+3.3 V
		PXI-8565	720 mA

ACL-EXPRESS-1/-3/-7	• Length: 1 M, 3 M, 7 M