



EC-8560/PXI-8565

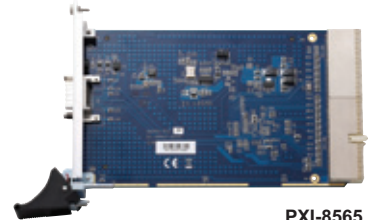
ExpressCard-to-PXI/CompactPCI Extension Kit

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
- Extension distance of up to 7 meters (extension 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



EC-8560



PXI-8565

Introduction

The ExpressCard-to-PXI/CompactPCI extension kit allows you to control PXI™/CompactPCI® modules installed in PXI™/CompactPCI® 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 extension 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 extension 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 extended 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 the 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 extension kit. Please visit the ADLINK website or contact us for compatibility information.

Specifications



EC-8560

- Compliant with ExpressCard™ Standard Release 1.2
- Compliant with PCI Express® Base Specification Rev. 1.0a
- 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

- Compliant with PXI™ Specifications Rev. 2.2
- Compliant with PCI-to-PCI Bridge Architecture Specifications Rev. 1.2
- Compliant with PCI™ Local Bus Specifications Rev. 3.0
- 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
 - ACL-EXPRESS-1: 1 M
 - ACL-EXPRESS-3: 3 M
 - ACL-EXPRESS-7: 7 M
- Construction: Shielded twisted pair copper cable
- Signal bandwidth: 2.5 Gbps



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

Applications

- Laptop-based measurement and control
- Military/aerospace
- Video/audio testing
- Portable testing system

Ordering Information

- **ExpressCard-to-PXI Extension Kit**
Including one EC-8560, one PXI-8565, and one ACL-EXPRESS-3 cable
- **EC-8560**
ExpressCard-to-PXI extension interface card for host laptop computer
- **PXI-8565**
ExpressCard-to-PXI extension interface card for PXI chassis
- **ACL-EXPRESS-1**
High-speed extension cable, 1 M
- **ACL-EXPRESS-3**
High-speed extension cable, 3 M
- **ACL-EXPRESS-7**
High-speed extension cable, 7 M

- 1 Software Solutions
- 2 PXI/CompactPCI Platforms
- 3 Modular Instrument
- 4 PXI/CompactPCI Modules
- 5 Bus Interface
- 6 GPIB Interface
- 7 PCI/PCI Express® DAQ Cards
- 8 PCI/PCI Express® DIO Cards
- 9 PC/104-Plus Modules
- 10 ISA DAS/DIO Cards
- 11 System Product
- 12 Wiring Termination Boards
- 13 Motion, HSL, Vision, COM & GEME
- 14 Remote I/O Modules
- 15 Industrial Computers