

PCES-8581-4S/4L/13S

PCIe-to-PCI Expansion Systems



PCES-8581-4S



PCES-8581-4L



PCES-8581-13S

Introduction

Harnessing the bandwidth potential of the PCI Express, these latest smart expansion systems enable computers with a PCI Express slot to remotely manage and control up to 13 PCI devices seven meters away, using the high-speed PCI Express interface. Offering up to 13 (PCES-8581-13S) or four PCI slots (PCES-8581-4S/4L), these expansion systems operate in 32-bit/33 MHz configuration and come with complete end-to-end hardware and software transparency for the host system. Hardware devices installed in the expansion system behave and work as if these are directly installed into the host system, requiring no additional drivers or software installation. The host system may be separated from the expansion system at up to seven meters using high-quality shielded twisted copper cables. The robust and reliable PCI expansion-to-PCI expansion systems are suited for portable test and measurement applications with high-density I/O requirement and in hazardous industrial control and automation environments.

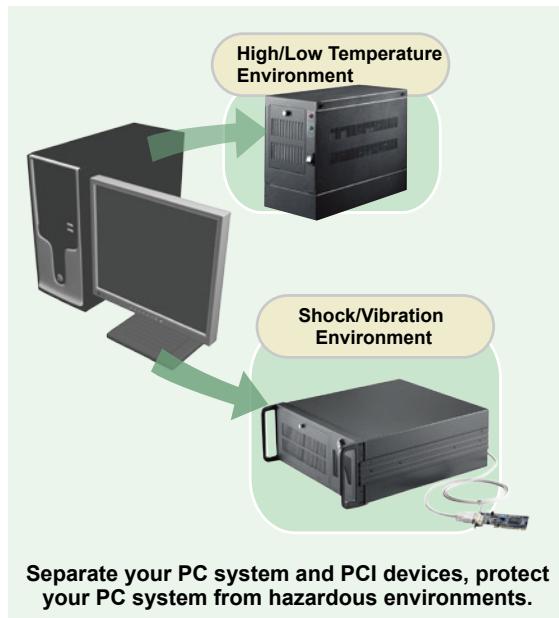
Controlling PCI™ Remotely via the PCI Express® Interface

Most commercial desktop PCs of today are equipped with only one or two PCI slots. For users and applications requiring control of multiple PCI devices from one PC system, this limitation causes great difficulty when searching for and deciding on a suitable computer system. With the ADLINK PCES-8581-13S expansion system, users can easily expand their system and conveniently accommodate 13 PCI devices or more.

For rugged applications where the PC system is subjected to a hazardous environment, valuable components such as the CPU and hard disk drive are easily damaged. To protect these valuable IT investments, the PCES-8581-13S and the PCES-8581-4S/4L PCI Express-to-PCI expansion system can be controlled remotely at up to 7 meters from the host PC using a high-speed and well-shielded cable. While the host PC system is installed at a safe distance from the rugged environment, the remote expansion system is designed to withstand extreme temperatures or high vibration. On the other hand, if your PCI devices require less electromagnetic interference, you may also use the PCI Express-to-PCI expansion system to isolate high frequency interferences from the CPU, memory, or North/Southbridge chips. These expansion systems also allow close installation of your DAQ and/or control cards with the DUT (Device Under Test) for a more compact and space-saving test and measurement environment.

Features

- PCI Express-based control of PCI - PCES-8581-4S/13S
- High-speed PCI Express x1 interface
- Compatible with 5 V and 3.3 V PCI signaling
- 32-bit/33 MHz PCI interface support
- PCES-8581-4S expand four half-size PCI slots in a shoebox size wallmount chassis with built-in 200 W power supply
- PCES-8581-4L expands four full-size PCI slots in a wall-mount chassis with built-in 200W power supply
- PCES-8581-13S expands 13 full-size PCI slots in a 19" rack-mount chassis with built-in 400 W power supply
- Extension distance of up to 7 meters (extension cables at 1 M, 3 M, and 7 M)
- Comprehensive hardware and software transparency
- Compliant with
 - PCI Express® Base Specification Rev. 1.0a
 - PCI-to-PCI Bridge Architecture Specification, Revision 1.2
 - PCI Local Bus Specification, Revision 3.0





RK-8005



PCIe-8560



RK-8014

Specifications

■ PCIe-8560

- PCI Express Base Specifications Rev. 1.0a compliant
- PCI Express x1 link with 250 MB/s data throughput
- Dimension: Low-profile PCI Express card (69 mm (H) x 87 mm(W))
- Power requirements:

| | |
|-----------|--------|
| Device | +3.3 V |
| PCIe-8560 | 210 mA |

■ PCI-8565

- PCI-to-PCI Bridge Architecture Specifications Rev. 1.2 compliant
- PCI™ Local Bus Specifications Rev. 3.0 compliant
- Supports 5 V and 3.3 V PCI™ bus
- Dimensions: Low-profile PCI™ add-on card (64 mm (H) x 120 mm (W))
- Power requirements:

| | |
|----------|--------|
| Device | +3.3 V |
| PCI-8565 | 720 mA |

■ RK-8005/8005L

- Dimensions:
 - RK-8005: 122 mm (W) x 195 mm (H) x 259 mm (D), for half-sized PCI cards
 - RK-8005L: 122 mm (W) x 195 mm (H) x 420 mm (D), for full-sized PCI cards
- Weight: 3.2Kg (7.04 lb) for RK-8005, 4.5Kg (9.9 lb) for RK-8005L
- Backplane: Five 32-bit/33 MHz half-sized PCI™ slots
 - 1 slot for expansion card
 - 4 slots available for PCI™ cards
- Power supply:
 - Input voltage: 85 VAC to 265 VAC
 - Output: 200 W
- Cooling: One 37.5 CFM ball bearing fan (80 mm)

■ RK-8014

- Dimensions: 483.5 mm (W) x 177 mm (H) x 448.5 mm (D)
- Weight: 12 Kg (26.4 lb)
- Backplane: 14 x 32-bit/33 MHz full-sized PCI slots
 - 1 slot for expansion card
 - 13 slots available for PCI cards
- Power supply:
 - Input voltage: 85 VAC to 265 VAC with auto-switching
 - Output: 400 W
- Cooling: Two 88 CFM ball bearing fan (120 mm)
- Length: 1 M, 3 M, 7 M

■ ACL-EXPRESS-I/-3/-7

General Specifications

- Operating temperature: 0°C to 50°C
- Storage temperature: -20°C to 80°C
- Relative humidity: 10% to 90%, non-condensing

Ordering Information

■ PCES-8581-4L

4-Slot PCIe-to-PCI Expansion System for Full-Size PCI Cards. Includes One PCIe-8560, One RK-8005L (full-length PCI slot) and One ACL-EXPRESS-3 Cable

■ PCES-8581-4S

Includes One PCIe-8560, One RK-8014, and One ACL-EXPRESS-3 Cable

■ PCES-8581-13S

Includes One PCIe-8560, One RK-8014, and One ACL-EXPRESS-3 Cable

■ ACL-EXPRESS-I

Optional 1 M Expansion Cable

■ ACL-EXPRESS-3

Optional 3 M Expansion Cable

■ ACL-EXPRESS-7

Optional 7 M Expansion Cable



PCI-8565



ACL-EXPRESS-I/-3/-7

PCIe-to-PCI Expansion Systems

| System Model | Host Bus Type | Expansion Bus Type | Slots No. | Expansion System Includes | | | | Cable Option |
|---------------|---------------|--------------------|-----------|---------------------------|---------------|-------------------|---------------|------------------|
| | | | | Card (Host) | Card (Remote) | Expansion Chassis | Accessory | |
| PCES-8581-4S | PCI Express | PCI | 4 | PCIe-8560 | PCI-8565 | RK-8005 | ACL-EXPRESS-3 | ACL-EXPRESS-I/-7 |
| PCES-8581-4L | PCI Express | PCI | 4 | PCIe-8560 | PCI-8565 | RK-8005L | ACL-EXPRESS-3 | ACL-EXPRESS-I/-7 |
| PCES-8581-13S | PCI Express | PCI | 13 | PCIe-8560 | PCI-8565 | RK-8014 | ACL-EXPRESS-3 | ACL-EXPRESS-I/-7 |

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В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибуторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ Р В 0015-002 и ЭС РД 009

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