PCES-8581-4S/13S

PCIe-to-PCI Expansion Systems



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-8581-13S expands 13 full-size PCI slots in a 19" rackmount chassis with built-in 400 W power supply
- Extension distance of up to 7 meters (extension cables at I 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

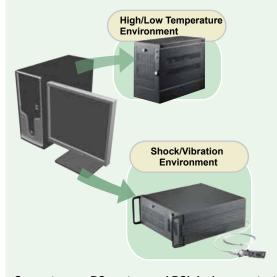
Introduction

Harnessing the bandwidth potential of PCI Express, these smart expansion systems enable computers with a PCI Express slot to remotely manage and control up to 13 PCI devices seven meters away. Offering up to 13 (PCES-8581-13S) or four PCI slots (PCES-8581-4S), 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 function as if 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 expansionto-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.

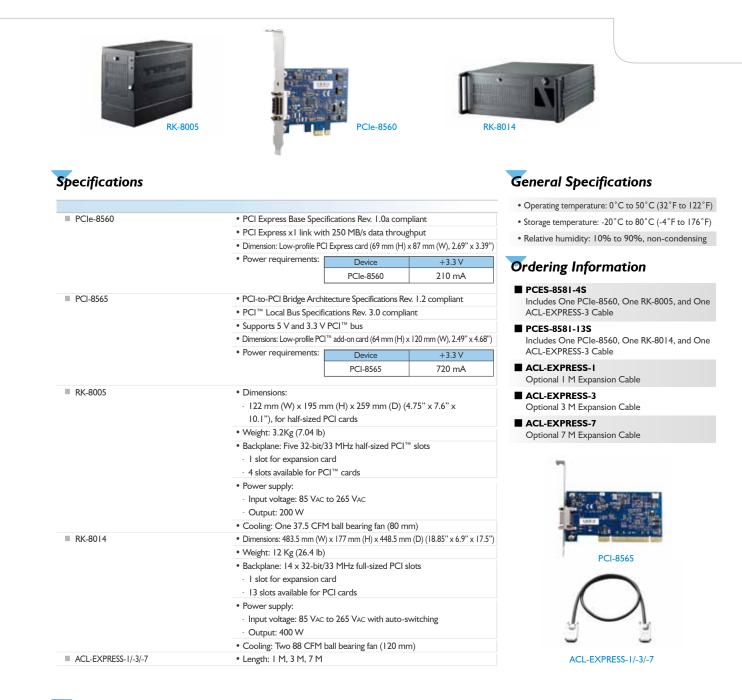
Controlling PCI[™] Remotely via the PCI Express[®] Interface

Most commercial desktop PCs are equipped with only one or two PCI slots. For systems 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 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. If the 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.



Separate your PC system and PCI devices, protect your PC system from hazardous environments.



PCIe-to-PCI Expansion Systems

System Model	Host Bus Type	Expansion Bus Type	Slots No.	Expansion System Includes				
				Card (Host)	Card (Remote)	Expansion Chassis	Accessory	Cable Option
PCES-8581-4S	PCI Express	PCI	4	PCIe-8560	PCI-8565	RK-8005	ACL-EXPRESS-3	ACL-EXPRESS-1/-7
PCES-8581-13S	PCI Express	PCI	13	PCIe-8560	PCI-8565	RK-8014	ACL-EXPRESS-3	ACL-EXPRESS-1/-7