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

PCle-to-PCl 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-8581-4L expands four full-size PCI slots in a wallmount chassis with built-in 200W 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

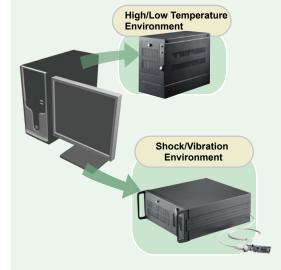
Introduction

Harnessing the bandwidth potential of the PCI Express, these latest smart expansion systems enable compuers 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.



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

RK-800	5	PCIe-8560	RK-	8014		
pecifications				General Specifications		
				• Operating temperature: 0°C to 50°C		
PCIe-8560	 PCI Express Base Speci 	fications Rev. 1.0a con	npliant	 Storage temperature: -20°C to 80°C 		
	 PCI Express x1 link with 	h 250 MB/s data throu	• Relative humidity: 10% to 90%, non-conde			
	 Dimension: Low-profile 	e PCI Express card (69				
	Power requirements:	Device	+3.3 V	Ordering Information		
		PCIe-8560	210 mA	Ordering information		
	L		/	PCES-8581-4L		
PCI-8565	 PCI-to-PCI Bridge Archi 	•		4-Slot PCIe-to-PCI Expansion System for F		
	 PCI[™] Local Bus Specific 	1	Size PCI Cards. Includes One PCIe-8560, RK-8005L (full-length PCI slot) and One A EXPRESS-3 Cable			
	 Supports 5 V and 3.3 V 					
	 Dimensions: Low-profile 	PCI™ add-on card (64	mm (H) x 120 mm (W))			
	Power requirements:	Device	+3.3 V			
		PCI-8565	720 mA	Includes One PCIe-8560, One RK-8005, ar ACL-EXPRESS-3 Cable		
				■ PCES-8581-13S		
RK-8005/8005L	Dimensions:	A 105 (1) 050	Includes One PCIe-8560, One RK-8014, ar			
	- RK-8005: 122 mm (V	, , ,	ACL-EXPRESS-3 Cable			
	for half-sized PCI card			ACL-EXPRESS-1		
	- RK-8005L: 122 mm (\	, , ,	Optional I M Expansion Cable			
	for full-sized PCI card		ACL-EXPRESS-3			
	• Weight: 3.2Kg (7.04 lb)	0.	Optional 3 M Expansion Cable			
	Backplane: Five 32-bit/.		ACL-EXPRESS-7			
	 I slot for expansion can be a set of the s		Optional 7 M Expansion Cable			
	 4 slots available for PC Bowen symply 	Li Carus	- Farmer - Tanaran andra			
	Power supply:		7			
	 Input voltage: 85 VAC Output: 200 W 	10 203 VAC				
	Cooling: One 37.5 CFN	1 ball bearing fan (PO -				
RK-8014	Cooling: One 37.5 CFI Dimensions: 483.5 mm	÷ .				
KK-8014	 Dimensions: 483.5 mm Weight: 12 Kg (26.4 lb) 	()	and a second			
	 Weight: 12 Kg (26.4 lb) Backplane: 14 x 32-bit/ 					
	 Backplane: 14 x 32-bit/ I slot for expansion care 					
	 I slot for expansion c I 3 slots available for F 		PCI-8565			
	 I 3 slots available for F Power supply: 					
	11,	to 245 V/40				
	 Input voltage: 85 VAC Output: 400 W 	LO ZOD VAC WITH AUTO-				
	 Cooling: Two 88 CFM I 					

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-8581-4L	PCI Express	PCI	4	PCIe-8560	PCI-8565	RK-8005L	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

ACL-EXPRESS-1/-3/-7