

# PCIe-LK12

## User's Manual



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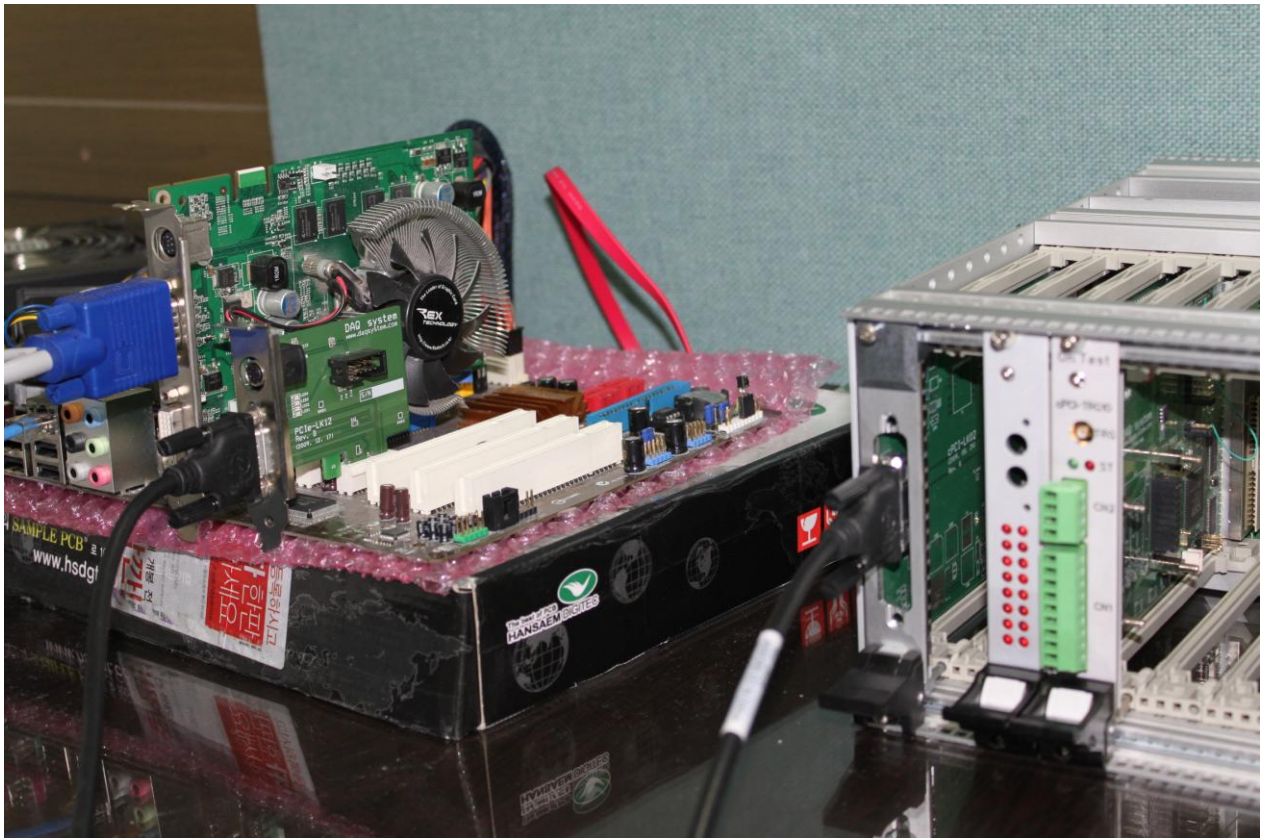
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## 1. PCIe-LK12 Introduction

The PCIe-LK12 PCI Express (x1) card can control Compact PCI products at desk computer (PC). It supports a PCI Express signals and power through connectors. This board is a Compact PCI Link board that can be used any operating systems without driver. **However, you need a Compact PCI Link board as like a cPCU-LK02 or cPCI-LK03 (DAQ product).**

[Figure 1-1] shows that the connection of Compact PCI System and laptop computer.



[Figure 1-1. PCIe-LK12 and PC Connection]

### Main Features

- x1 PCI Express link host interface
- Compliant with PCI Express Base Specification 1.1
- Support various power (12V, 3.3V, 3.3V AUX) for external device through Mini Circular connector

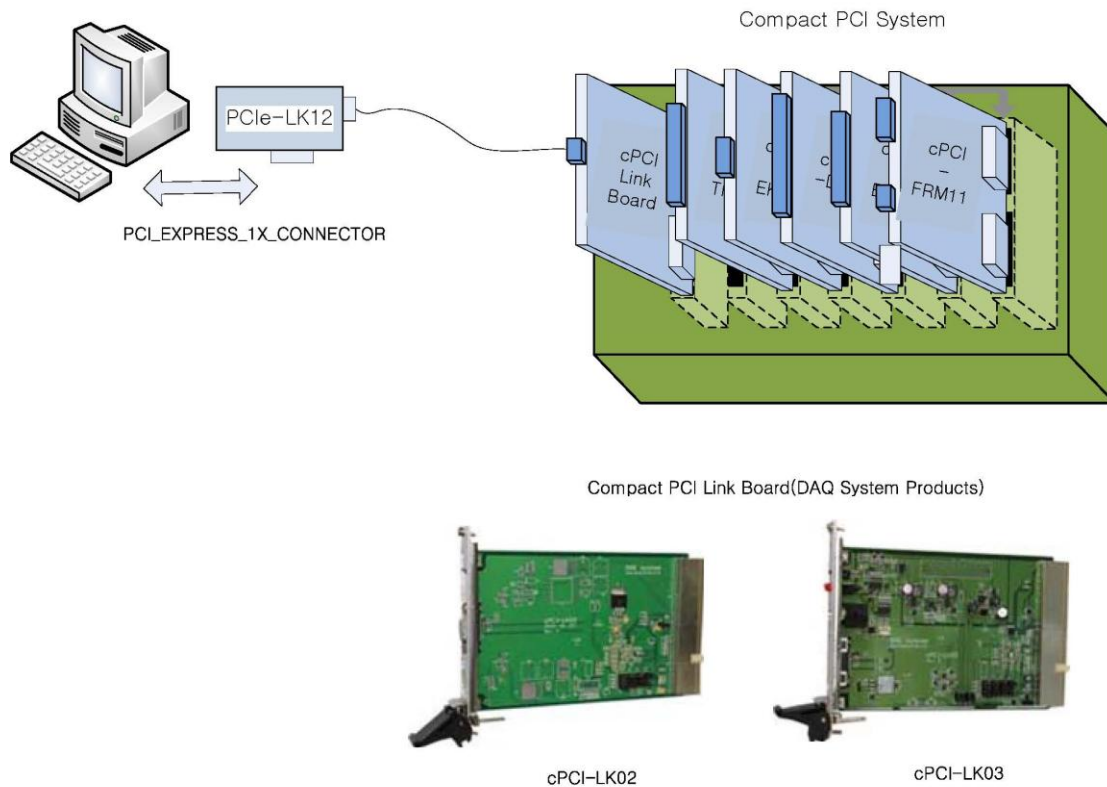
### Applications

- Industry Control Board
- Compact PCI System Control

## 2. PCIe-LK12 Description

The PCIe-LK12 provides the PCI Express signals and various power ( $\pm 12V$ , 3.3V, 3.3V AUX) through MDR-18 (J1) and Mini Circular 6 pin (JP4) connector.

### 2-1 PCIe-LK12 Connection

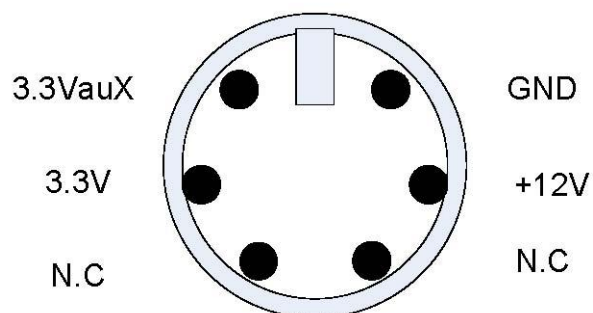


[Figure 2-1. PCIe-LK12 and Compact PCI System Connection]

[Figure 2-1] shows that the connection of Compact PCI System (cPCI-LK02 or cPCI-LK03) and desktop computer (general PC).

## 2-2. JP4 Connector Pin-Out

The PCIe-LK12 supports various power (12V, 3.3V, 3.3V AUX) through JP4 (HR10-7R-6S-RA) Mini Circular connector for external devices.



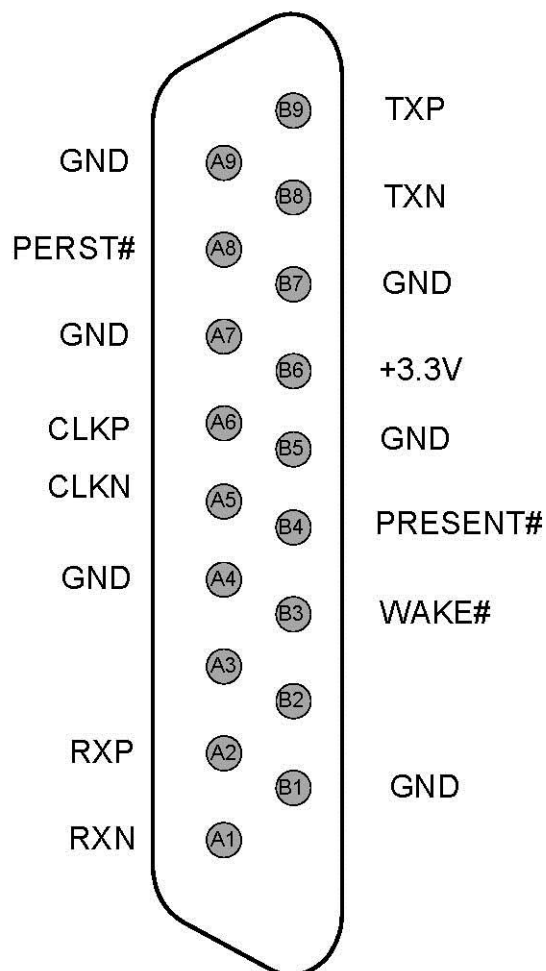
[Figure 2-2. PCIe-LK12 JP4 Connector Pin-out]

[Table 1. JP4 Connector Description]

No.	Name	Description	Remark
1	<b>GND</b>	Ground	
2	<b>+12V</b>	+12V Power	
3	<b>N.C</b>	No Connection	
4	<b>N.C</b>	No Connection	
5	<b>+3.3V</b>	+3.3V Power	
6	<b>+3.3VAUX</b>	+3.3V Auxiliary Power	

## 2-3. J1 Connector Pin-Out

The PCIe-LK12 transmits the Express PCI signals through J1 (MDR-18) connector.



[Figure 2-3. PCIe-LK12 J1 Connector Pin-out]

[Table 2. J1 Connector Description]

No.	Name	Description	Remark
A1	<b>RXN</b>	Negative Receiver	
A2	<b>RXP</b>	Positive Receiver	
A3	<b>N.C</b>	No Connection	
A4	<b>GND</b>	Ground	
A5	<b>CLKN</b>	Negative Reference Clock	
A6	<b>CLKP</b>	Positive Reference Clock	
A7	<b>GND</b>	Ground	
A8	<b>PERST#</b>	Power Stable Signal	

A9	<b>GND</b>	Ground	
B1	<b>GND</b>	Ground	
B2	<b>N.C</b>	No Connection	
B3	<b>WAKE#</b>	Wake-Up System	
B4	<b>PRESENT#</b>	Add-in Card Presence Detect	
B5	<b>GND</b>	Ground	
B6	<b>+3.3V</b>	+3.3V Power	
B7	<b>GND</b>	Ground	
B8	<b>TXP</b>	Positive Transceiver	
B9	<b>TXN</b>	Negative Transceiver	

## Appendix

### A.1 PCIe-LK12 Dimension : 78.5 x 59mm

