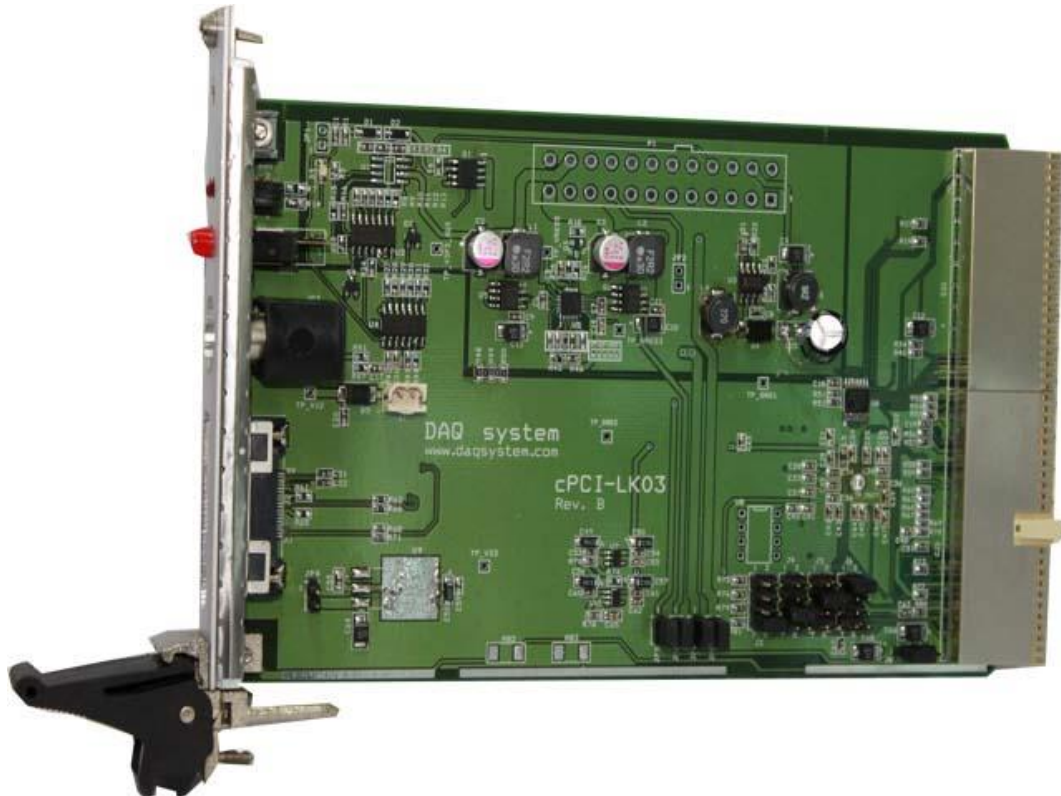


# cPCI-LK03

## User Manual

Version 1.0



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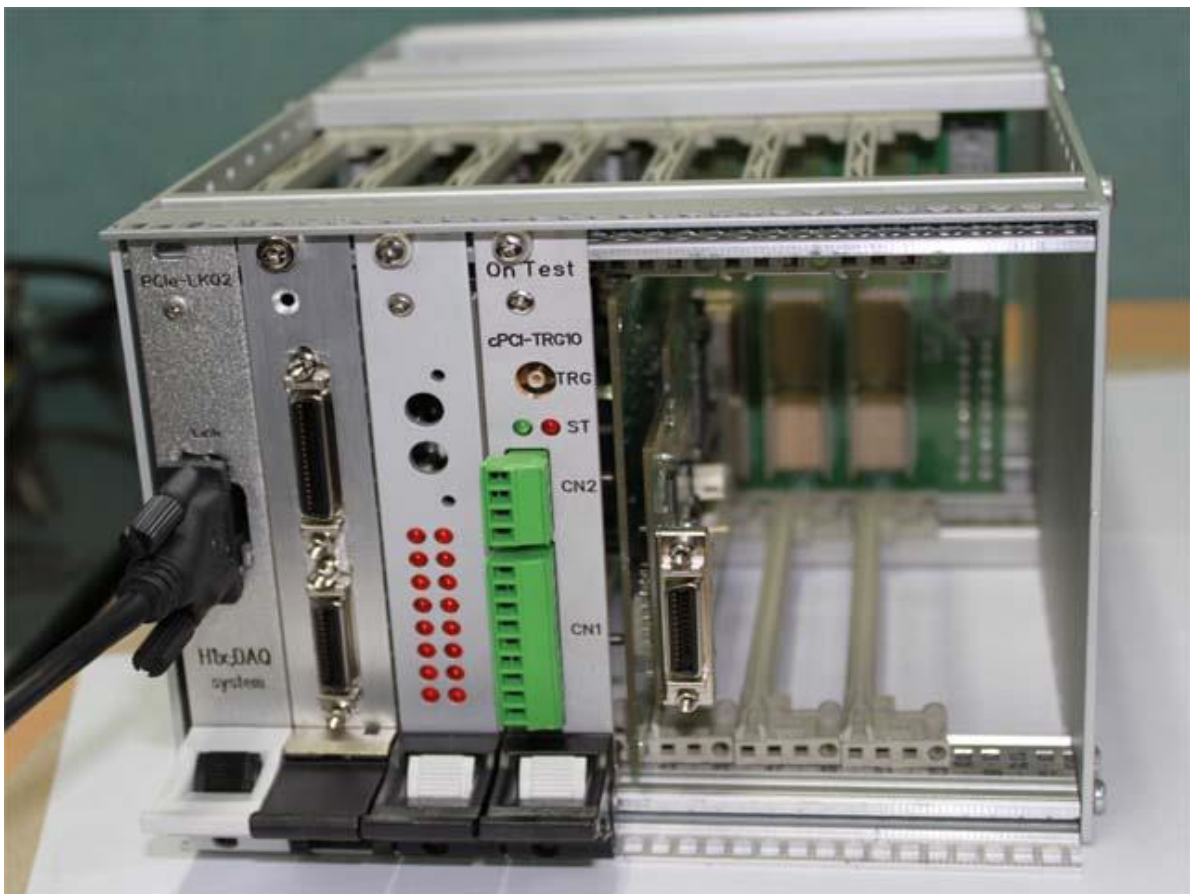
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## 1. cPCI-LK03 Introduction

The cPCI-LK03 board is installed in the system slot of the Compact PCI backplane so that up to 8 Compact PCI products can be accessed from a desk PC or laptop. It is a Compact PCI Link board that does not require a driver and can be used in any operating system by connecting to the standard Express Card/PCMCIA Card Bus or PCI Express Base Specification 1.1 interface. In addition, it is a multifunctional link board that can use 8 Compact PCI boards with only external power without internal ATX power through a circular connector.

[Figure 1-1] shows the cPCI-LK03 board connection in the Compact PCI System.



[Figure 1-1. cPCI-LK03 & Compact PCI System Connection]

### 1-1 cPCI-LK03 Features

- Support Compact PCI 32/64bit, 33MHz/66Mhz
- Maximum 8 Compact PCI Products
- Low Power
- Supply power for external devices (12V, 3.3V, 3.3V AUX) through the Mini Circular connector

## 1-2 Applications

- Compact PCI board Hardware debugging on PC or Notebook
- Compact PCI board Software development on PC or Notebook



[Figure 1-2. eCard-LK02 & Compact PCI System Connection]

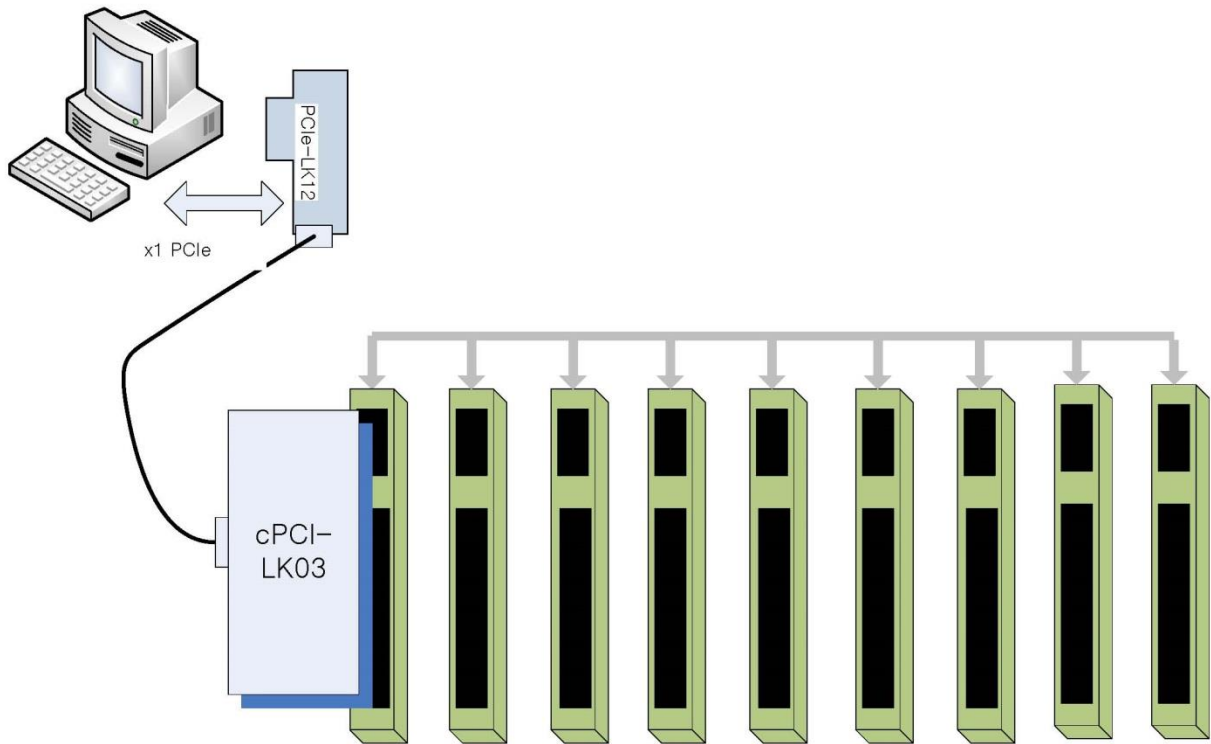


[Figure 1-3. PCIe-LK12 & Compact PCI System Connection]

## 2. cPCI-LK03 Board Description

cPCI-LK03 board can access up to 8 Compact PCI products.

### 2-1 cPCI-LK03 Connection

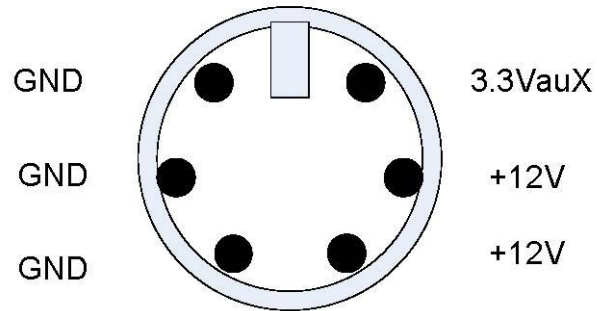


[Figure 2-1. cPCI-LK03 & Compact PCI Link Board Connection]

[Figure 2-1] shows the connection between the link board (cPCI-LK03) and PC (PCIe-LK12) in the Compact PCI system.

## 2-2 JP3 Connector Pin-Out

cPCI-LK03 can receive the necessary power (12V, 3.3V AUX) to use 8 Compact PCI boards through the Hirose JP3 (HR10-7R-6S-RA) Mini Circular connector, which is an external power connector.



[Figure 2-2. cPCI-LK03 JP3 Connector Pin-out]

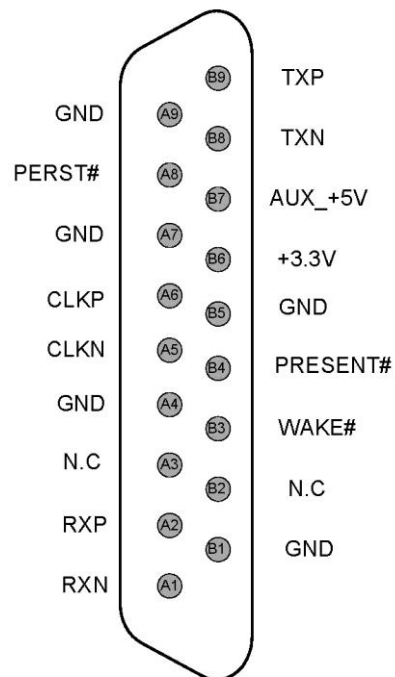
[Table 1. JP3 Connector Description]

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



## 2-3 J2 Connector Pin-Out

The J2 connector transmits the Express PCI signal of the cPCI-LK03 through the J2 (MDR-18) connector.



[Figure 2-3. cPCI-LK03 J2 Connector Pin-out]

[Table 2. J2 Connector Description]

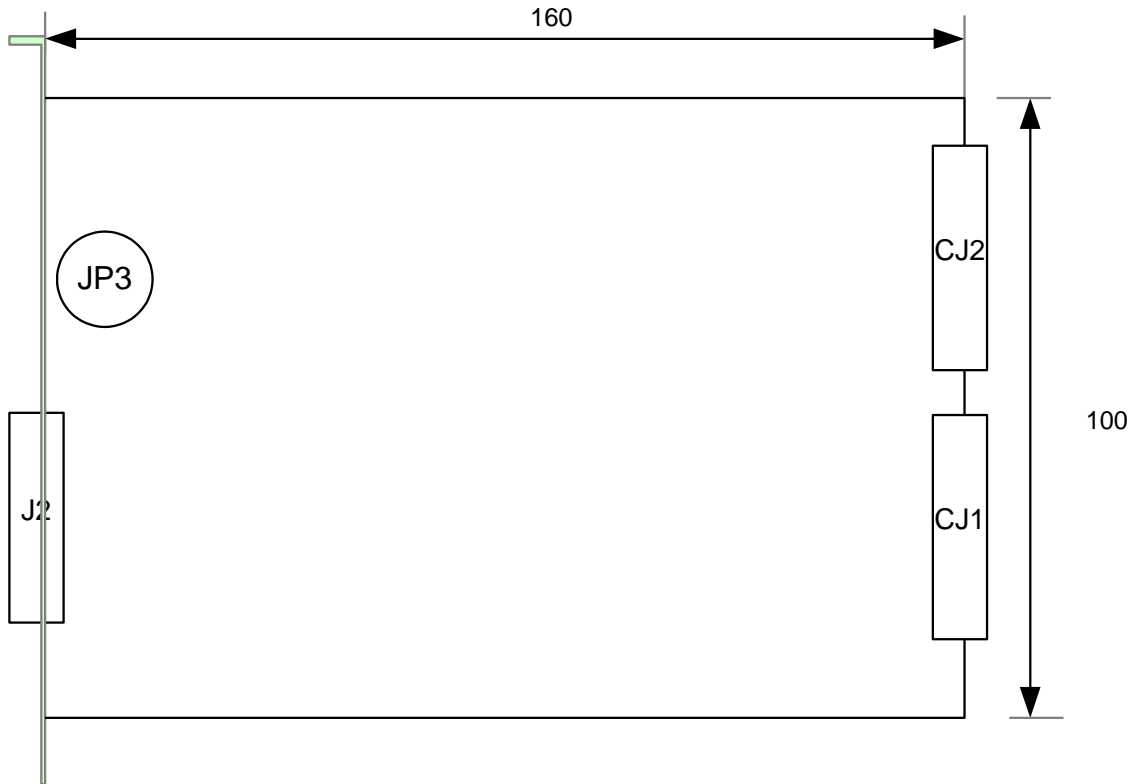
No.	Name	Description	Remark
A1	<b>RXN</b>	Negative Receiver	
A2	<b>RXP</b>	Positive Receiver	
A3	<b>N.C</b>	No Connection	
A4	<b>GND</b>	Ground	
A5	<b>CLKN</b>	Negative Reference Clock	
A6	<b>CLKP</b>	Positive Reference Clock	
A7	<b>GND</b>	Ground	
A8	<b>PERST#</b>	Power Stable Signal	
A9	<b>GND</b>	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>AUX_+5V</b>	When +5V use through PCI Express cable	
B8	<b>TXP</b>	Positive Transceiver	
B9	<b>TXN</b>	Negative Transceiver	



## Appendix

### A-1 Board Size

The external dimensions of the board are as follows: Standard Universal (5V/3.3V) PCI 32bit form-factor (160mm x 100mm, 3U) size.



## A-2 Repair Regulations

Thank you for purchasing DAQ SYSTEM's product. Please refer to the following regarding Customer Service stipulated by DAQ SYSTEM.

- (1) Please read the user's manual and follow the instructions before using the DAQ SYSTEM product.
- (2) When returning the product to be repaired, please send it to the head office with the symptoms of the malfunction as well.
- (3) All DAQSYSTEM products have a one-year warranty.
  - The warranty period is counted from the date the product is shipped from DAQ SYSTEM.
  - Peripherals and third-party products not manufactured by DAQ SYSTEM are covered by the manufacturer's warranty.
  - If repair is required, please contact the contact points below.
- (4) Even during the free repair warranty period, paid repairs are made in the following cases.
  - ① Failure or damage caused by not following the user's manual
  - ② Failure or damage caused by customer negligence during product transportation after purchase
  - ③ Natural phenomena such as fire, earthquake, flood, lightning, pollution, etc. or power supply exceeding the recommended range malfunction or damage
  - ④ Failures caused by inappropriate storage environment (eg, high temperature, high humidity, volatile chemicals, etc.) damaged
  - ⑤ Failure or damage due to unreasonable repair or modification
  - ⑥ Products whose serial number has been changed or intentionally removed
  - ⑦ In the event that DAQ SYSTEM determines that it is the customer's negligence for other reasons
- (5) The customer must bear the shipping cost of returning the repaired product to DAQ SYSTEM.
- (6) The manufacturer is not responsible for any problems caused by incorrect use regardless of our warranty provisions.

# MEMO

## Contact Point

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