

Digital Input Board for PCI DI-64T2-PCI



* Specifications, color and design of the products are subject to change without notice.

Features

Unisolated TTL level input, unisolated open-collector output
DI-64T2-PCI has the unisolated TTL level inputs 64channels whose response speed is 200nsec. Output rating : max 30VDC, 40mA per pin.

You can use 32channels of the input signals as interrupt events. (For DI-64T2-PCI only)

You can use 32channels of the input signals as interrupt events and also disable or enable the interrupt in bit units and select the interrupt edge.

This product has a digital filter to prevent input signals from carrying noise or a chattering.

This product has a digital filter to prevent input signals from carrying noise or a chattering. All input terminals can be added a digital filter, and the setting can be performed by software.

Windows/Linux compatible driver libraries are attached.

Using the attached driver library API-PAC(W32) makes it possible to create applications of Windows/Linux. In addition, a diagnostic program by which the operations of hardware can be checked is provided.

LabVIEW is supported by a plug-in of dedicated library VI-DAQ.

Using the dedicated library VI-DAQ makes it possible to create each application for LabVIEW.

This product is a PCI board designed for inputting the digital signal or extending output function on your PC.

DI-64T2-PCI is a type with unisolated 64 TTL level input channels. You can use 32channels of the input signals as interrupt inputs. Digital filter function to prevent wrong recognition of input signals is provided.

Windows/Linux driver is bundled with this product.

Possible to be used as a data recording device for LabVIEW, with dedicated libraries.

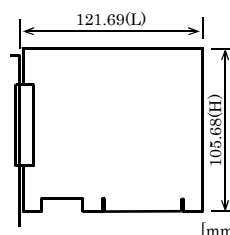
Specifications

Item	Specification
Input	
Input format	Unisolated TTL level input (Negative logic *1)
Number of input signal channels	64channels (32channels of them are available for interrupts) (1 common)
Input resistance	Pull up 10k Ω (1TTL load)
Interrupt	32 interrupt input signals are arranged into a single output of interrupt signal INTA. An interrupt is generated at the rising edge (HIGH-to-LOW transition) or falling edge (LOW-to-HIGH transition).
Response time	200nsec within
Common	
External supply capable current (Max.)	5VDC 1A
Allowable distance of signal extension	Approx. 15m (depending on wiring environment)
I/O address	Any 32-byte boundary
Interrupt Level	1 level use
Max. board count for connection	16 boards including the master board
Power consumption (Max.)	5VDC 200mA
Operating condition	0 - 50°C, 10 - 90%RH (No condensation)
Bus specification	PCI (32bit, 33MHz, Universal key shapes supported *2)
Dimension (mm)	121.69(L) x 105.68(H)
Connector	96 pin half pitch connector [M (male) type] PCR-E96LMD+ [HONDA TSUSHIN KOGYO CO., LTD.] equivalent to it
Weight	100g
Standard	VCCI Class A, CE Marking (EMC Directive Class A), RoHS Directive

*1 Data "0" and "1" correspond to the High and Low levels, respectively.

*2 This board requires power supply at +5V from an expansion slot (it does not work on a machine with a +3.3V power supply alone).

Board Dimensions



The standard outside dimension (L) is the distance from the end of the board to the outer surface of the slot cover.

Support Software

Windows version of digital I/O driver API-DIO(WDM)/API-DIO(98/PC) [Stored on the bundledmedia driver library API-PAC(W32)]

The API-DIO(98/PC) is the Windows version driver library software that provides products in the form of Win32 API functions (DLL). Various sample programs such as Visual Basic and Visual C++, etc and diagnostic program useful for checking operation is provided.

For more details on the supported OS, applicable language and how to download the updated version, please visit the CONTEC's Web site (<http://www.contec.com/apipac/>).

Linux version of digital I/O driver API-DIO(LNX)

[Stored on the bundledmedia driver library API-PAC(W32)]

The API-DIO(LNX) is the Linux version driver software which provides device drivers (modules) by shared library and kernel version. Various sample programs of gcc are provided.

For more details on the supported OS, applicable language and how to download the updated version, please visit the CONTEC's Web site (<http://www.contec.com/apipac/>).

Data acquisition VI library for LabVIEW VI-DAQ (Available for downloading (free of charge) from the CONTEC web site.)

This is a VI library to use in National Instruments LabVIEW. VI-DAQ is created with a function form similar to that of LabVIEW's Data Acquisition VI, allowing you to use various devices without complicated settings.

See <http://www.contec.com/vidaq/> for details and download of VI-DAQ.

Cable & Connector

Cable (Option)

Shield Cable with 96-Pin Half-Pitch Connectors at Both Ends
: PCB96PS-0.5P (0.5m), PCB96PS-1.5P (1.5m)

Flat Cable with 96-Pin Half-Pitch Connectors at Both Ends
: PCB96P-1.5 (1.5m)

Shield Cable with 96-Pin Half-Pitch Connectors at One End
: PCA96PS-0.5P (0.5m), PCA96PS-1.5P (1.5m)

Flat Cable with 96-Pin Half-Pitch Connectors at One End
: PCA96P-1.5 (1.5m), PCA96P-3 (3m)

Distribution shield cable with 96-Pin Half-Pitch Connectors
(96P→37P x 2)
: PCB96WS-1.5P (1.5m)

Accessories

Accessories (Option)

Screw Terminal	: EPD-96A *1*2
Screw Terminal	: EPD-96 *1
Digital I/O 64CH Series Terminal Panel	: DTP-64A *1
Signal Monitor for Digital I/O (64Bits)	: CM-64L *1
Screw Terminal (M3 x 37P)	: EPD-37A *3
Screw Terminal (M3.5 x 37P)	: EPD-37 *3
General Purpose Terminal	: DTP-3A *3
Screw Terminal	: DTP-4C *3
Signal Monitor for Digital I/O	: CM-32L *3
Connection Conversion Board (96-Pin → 37-Pin x 2)	: CCB-96 *4

*1 A PCB96P or PCB96PS optional cable is required separately.

*2 "Spring-up" type terminal is used to prevent terminal screws from falling off.

*3 A PCB96WS optional cable is required separately.

*4 Option cable PCB96P or PCB96PS, and the cable for 37-pin D-SUB are required separately.

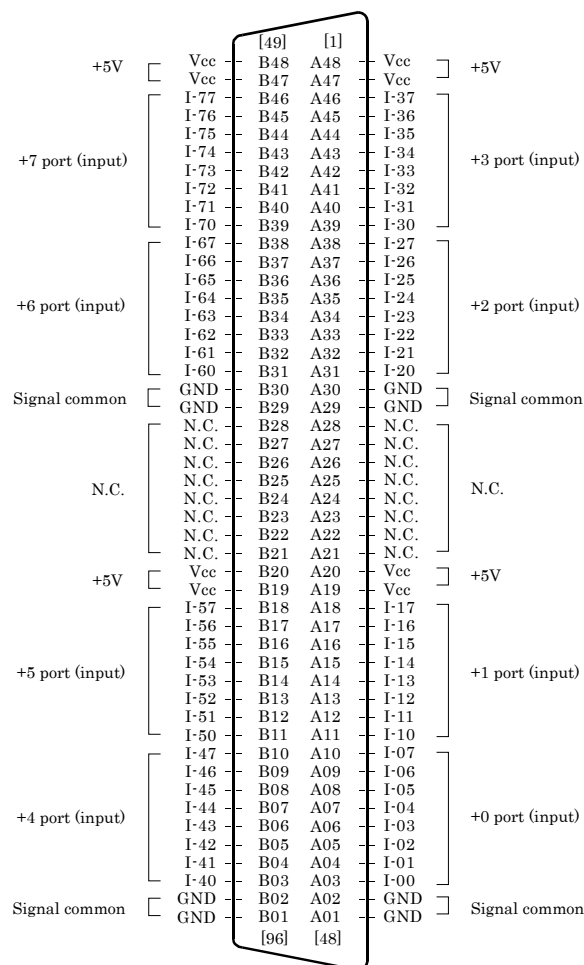
* Check the CONTEC's Web site for more information on these options.

Packing List

Board [DI-64T2-PCI] ...1
First step guide ... 1
Disk *1 [API-PAC(W32)] ...1
Product Registration Card & Warranty Certificate ...1
Serial number label ...1

*1 The Disk contains the driver software and User's Guide

Connector Pin Assignment



* I-00 - I-37 can be used as interrupt signal.

* The numbers in square brackets [] are pin numbers designated by HONDA TSUSHIN KOGYO CO., LTD.

I-00 - I-77	64 input signal pins. Connect output signals from the external device to these pins.
Vcc	Output +5V. Max. electrical current is 1A.
GND	This pin is connected to GND in the slot.
N.C.	This pin is left unconnected.