

Digital Output Board for PCI Express DO-64T2-PCI



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

Features

Unisolated open-collector output

DO-64T2-PCI has the unisolated open collector outputs 64channels whose response speed is 200nsec. Output rating : max 30VDC, 40mA per pin.

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.

DO-64T2-PCI is a type with 64 open-collector output channels.

Windows/Linux driver is bundled with this product.

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

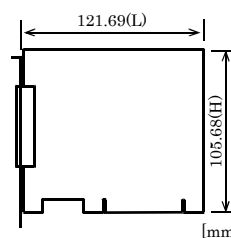
Specifications

Item	Specification
Output	
Output format	Unisolated open collector output (Negative logic *1)
Number of output signal channels	64channels (1 common)
Output rating	Output voltage
	30VDC (Max)
	Output current
	40mA (per channel) (Max)
Response time	Within 200nsec (change by pull-up resistor value)
Common	
External supply capable current (Max)	5VDC 1A
Allowable distance of signal extension	Approx. 1.5m (depending on wiring environment)
I/O address	Any 32-byte boundary
Interrupt Level	None
Max. board count for connection	16 boards including the master board
Power consumption (Max)	5VDC 310mA
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.

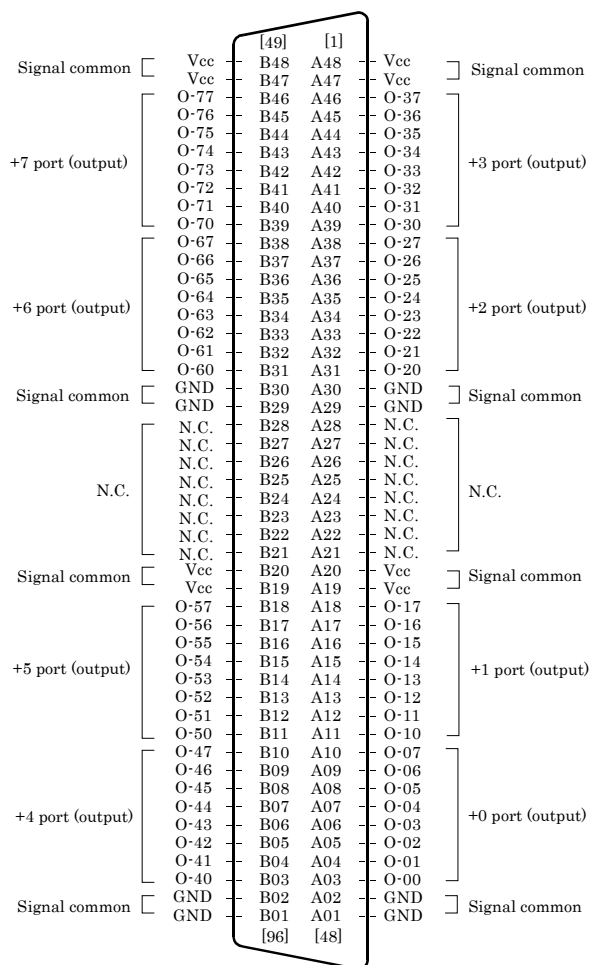
* Check the CONTEC's Web site for more information on these options.

Packing List

Board [DO-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



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

O-00 - O-77	64 output signal pins. Connect these pins to the input signal pins of the external device.
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.