

PCIDT – PCI Interface Trainer



Key Features:

- Designed for quick and easy learning
- I/O control in Windows/DOS through PCI Interfacing
- Examples in assembly language and C
- PCI bus interface card and cable provided

The PCI application is now widely used and has replaced the ISA system. PC-based interfacing and I/O experimentation had been based on the ISA (Industry Standard Architecture) bus, however, the PCI (Peripheral Component Interconnect) bus, makes it much more difficult for users to interface their own circuits directly to the PC. The PCIDT rectifies this situation enabling the experiments to be carried out via the PCI bus.

The PCIDT provides a solution for teaching PC-based interfacing to various I/O devices on modern PCs using the PCI bus. Pre-written experiments cover I/O devices from switches and 7-segment displays and A/D and D/A conversion to the optional DC and stepper motors. A complete introduction to PC interfacing covering PC interfaces and how to connect a range of common I/O devices is provided along with twelve experiments, with their program listings in assembly language and C, based on the PCIDT's pre-wired circuits. Using the exercises in the textbooks and tools, users are able to learn quickly in controlling I/O under Windows through a PCI interface card. Users can develop and learn PCI I/O control, in addition experiments with C or VB language. The system contains two main units: the interface card and the experiment platform. The design ensures that none of the experiments require soldering. The unit is enclosed in a strong and durable case.

Specification

Hardware Standard	Compatible with PCI version 2.1 Interface
Logic Input Unit	Logical input keypad x 8 4x4 numeral matrix keypad x 1
Output Unit	16x16 dot-matrix LED display x 1 6 digitals 7 segments display x 1 16 x 2 character LCD display x 1 Buzzer output x 1
Linear Unit	1 set 8bits A/D input 2 sets 8bits D/A output
Extend Unit	10 x 2 pin 2.0mm connector x 1 12 x 2 pin 2.0mm connector x 1
Software	<ul style="list-style-type: none"> • PCIDT drivers • Assembler program • Example programs written in assembly language and C
Dimension	280mm x 170mm x 100m
Weight	1.5Kg

Ordering Information

Model Number:

Consists of:

PCIDT

Main Experiment Board
Cable to link the PCIDT
PCI-IO interface card based on PLX 9052
CD

Optional Accessories:

DC fan plug-on module

- 12V direct fan
- Fan motor increase/decrease speed control

Stepper motor plug-on module

- Quar-phases 12V step motor
- Step motor position control
- Step motor speed control

Heater & temperature sensor plug-on module

Temperature induction circuit x 1

Notes.

1. *Specification is subject to change without notice.*

2. *All dimensions are in mm unless otherwise stated*

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