

Digital I/O And Counter Timer PCI Boards

PCI-DIO & PCI-CTR SERIES

Registered
ISO 9001
Company

- 24 digital I/O lines per board
- Choice of either 3 or 5 counter/timers per board
- Connector compatible with ISA version
- High current drive outputs on digital lines
- Digital I/O emulates 8255
- DLLs for Windows available with Universal Library
- Support for Agilent VEE Pro, LabVIEW and DASylab

These PCI digital interface boards are designed to combine low cost, with ease of programming for process control applications involving modern bench-top or industrial PCs.

Digital I/O

The 24 I/O bits is divided into two 8-bit and two 4-bit ports which emulate an 8255 chip in mode 0. Each of these four or eight bit ports can be individually selected in software to be an input or output.

When selected as output, they have high-drive capability (64mA sink, 15 mA source), one popular use for this extra drive capability is in switching relays.

Counter timer

The 9513 is extremely powerful and flexible and may be configured for event counting, pulse width measurement, frequency measurement, frequency division, generating complex duty cycles and much more. It supports one-shot and continuous modes.



SPECIFICATION

DIGITAL INPUT/OUTPUT GENERAL

I/O bits	Variable, in blocks of 24
Configuration	Each group 24 I/O bits divided into two 8-bit and two 4-bit ports. Emulates 8255 mode 0

DIGITAL INPUT

V _{in} high	Min. 2V
V _{in} low	Max. 0.8V
I _{in} high	(V _{in} = 2.7V) max. 20mA
I _{in} low	(V _{in} = 0.4V) min. -0.5µA max. -200µA

DIGITAL OUTPUT

V out high	(I out high = -1mA) min. 2.7V (I out high = -15mA) min. 2.0V
V out low	(I out low = 12mA) max. 0.4V (I out low = 64mA) max. 0.55V

COUNTER/TIMER (PCI-CTR5)

Counters	5, 16-bit
Chip	AMD 9513
I/O levels/drives	CMOS family
Ext. input freq.	Up to 7 MHz
On-board crystal freq	1 MHz
crystal stability	100 ppm
Compliance	CE EMC

DESCRIPTION	PRODUCT CODE
PCI-DIO24H 24 high current drive DIO lines	909 890 66
PCI-CTR5 5 counter timer channels	909 890 69
37 way cable	919 020 54
CIO MINI37 low cost simple termination board	909 550 24
CIO-TERM37 termination board with prototyping area	919 020 47
Universal Library software and examples	909 447 88
Agilent VEE PRO drivers	909 760 85
LabVIEW extension to Universal Library	909 763 64
DAS Wizard easy to use Excel compatible data acquisition utility (see page 194)	909 890 72
DAS Wizard Pro bundle of DAS Wizard and VIX-components	909 890 73