

Digital I/O Board With 72 Channels PCI Bus

PCI272

Registered
ISO 9001
Company



- **72 bit flexible, programmable digital I/O.**
- **Interrupt controlled operations, with the facility for interrupts to be generated from one of six external signals.**
- **PCI Bus version 2.1 Plug 'n' Play interface.**
- **Device driver software compatible with Windows 95/98 & NT/2000**
- **Agilent VEE, Visual Basic and Delphi example software.**
- **Backwards compatible with the PC272 (32 bit).**

The PCI272 is a plug-in, digital I/O board, which provides 72 bits of parallel digital input/output. The board can be used on any PC that supports the PCI bus version 2.1. The card is supplied Windows 95, 98, NT & 2000 compatible device driver, plus VEE, VB and Delphi examples..

The Amplicon 200 Series of Personal Computer based data acquisition products provides very high performance, affordable hardware with user friendly software. The 200 Series is designed for users requiring fast or complex data I/O to the host PC and comprises a range of boards and software to handle most analog and digital signal types.

When a large scale system is required, multiple boards can be added from the 200 Series with out conflict. For digital input systems, the capacity of the PC mounted hardware can be extended by external expansion panels to provide a convenient to use system with low cost per channel and maintained high performance.

Digital I/O Ports

The 72 I/O channels are arranged as three clusters (X, Y and Z) of three 8 bit ports (A, B and C).

Each cluster is also programmable as two groups of 12 bits (group A, group B) and used in three modes of operation. Each control block (group A and group B) accepts "commands" from the read/write control logic, receives "control words" from the internal data bus and issues proper commands to its associated ports.



SPECIFICATION

Digital inputs	TTL compatible 'Low' input voltage -0.3V to +0.8V 'High' input voltage +2.2V to +5.3V
Digital outputs	'Low' output voltage, +0.4V max at 2.5mA 'High' output voltage, +3.7V min at -2.5mA
I/O connector	78 way male D type. 72 digital I/O lines, power and ground
Address range	Assigned by Plug 'n' Play
IRQ range	Port C0 & C3 on each chip x, y & z is assigned an IRQ by the Plug 'n' Play mechanism
Power	+5 Volts from the host PC bus. 35mA or up to 95mA when all 72 DIO channels loaded +5 VDC at 1A from PC bus available at I/O connector
I/O positions required	One PCI bus version 2.1 I/O adapter slot with room for half-length card
Dimensions	Length 144 mm Height 108 mm
Temp. range	Operating 0 to +60°C Storage -20 to +70°C
Humidity range	20% to 80% non condensing @ 40°C
Dissipation	Typically 0.25 Watts of heat
Compliance	CE EMC

DESCRIPTION	PRODUCT CODE
PCI272	
72 line PCI digital I/O board including software and manual	960 035 23
78 pin connector kit	919 459 53
78 way screened cable	909 663 49

See page 158/9 for expansion panels

Control group A - port A and port C upper (C7 - C4)

Control group B - port B and port C lower (C3 - C0)

Mode 0: Basic I/O (Group A, group B)

Mode 1: Strobed I/O (Group A, group B)

Mode 2: Bidirectional bus (Group A only)

PCI272 is compatible with the 200 Series digital interface panels EX213/221/230 see page 158/9